APPROVED JURISDICTIONAL DETERMINATION FORM **U.S. Army Corps of Engineers**

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SECTION I: BACKGROUND INFORMATION

- **REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD):** October 31, 2016 Α.
- DISTRICT OFFICE, FILE NAME, AND NUMBER: Los Angeles District, SPL-2016-00160-ERS R.

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: California

County/parish/borough: Orange

City: Newport Beach

Center coordinates of site (lat/long in degree decimal format): Lat. 33.651511, Long. -117.852769

Universal Transverse Mercator: N/A

Name of nearest waterbody: San Diego Creek

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: San Diego Creek and Upper Newport Bay Name of watershed or Hydrologic Unit Code (HUC): Newport Bay

- Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request. \boxtimes
- Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a \square different JD form.

D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

- \boxtimes Office (Desk) Determination. Date: October 31, 2016
- Field Determination. Date(s):

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There are "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [*Required*]

- Waters subject to the ebb and flow of the tide.
 - Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain:

There are 4.95 acres of section 10 wetlands and 25.29 acres of section 10 non-wetland areas within the review area. Based on a previous approved JD that identified the section 10/404 boundary within San Diego Creek (Corps File No. SPL-2008-00437-CJF), the boundary separating section 10 and 404 jurisdictional waters was placed at the downstream end of the weir passing under Campus Drive (Exhibit 1c). A delineation report from 2007 documenting the presence of section 10 waters of the U.S. within the review area is provided as Exhibit 5, with an email from the applicant's consultant verifying the current validity of the delineation report received May 9, 2016 (Exhibit 6).

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There are "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]

- 1. Waters of the U.S.
 - a. Indicate presence of waters of U.S. in review area (check all that apply): ¹
 - \boxtimes TNWs, including territorial seas
 - Wetlands adjacent to TNWs
 - Relatively permanent waters² (RPWs) that flow directly or indirectly into TNWs
 - Non-RPWs that flow directly or indirectly into TNWs
 - Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
 - Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
 - Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
 - Impoundments of jurisdictional waters
 - Isolated (interstate or intrastate) waters, including isolated wetlands

b. Identify (estimate) size of waters of the U.S. in the review area:

- Non-wetland waters: 25.29 acres (section 10) and 0.51 acre (non-section 10)
- Wetlands: 4.95 acres (section 10) and 0.66 acre (non-section 10)

A delineation report from 2007 documenting the presence of non-section 10 waters of the U.S. within the review area is provided as Exhibit 5, with an email from the applicant's consultant verifying the current validity of the delineation report provided as Exhibit 6.

c. Limits (boundaries) of jurisdiction based on: The previous approved JD that identified the boundary between section 10 and non-section 10 waters (Corps File No. SPL-2008-437-CJD; Exhibit 2) referenced IRWD conductivity monitoring data showing that

¹ Boxes checked below shall be supported by completing the appropriate sections in Section III below.

² For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

a tidal prism is muted but detectable between MacArthur Blvd and Campus Drive (Exhibits 3 and 4). This approved JD further indicated that "at high tide, tidal flow likely reaches as far [upstream] as Campus Dr. before Basin 2 weir"). Therefore, at high tide, tidal flows likely reach as far upstream as the downstream extent of this weir (Exhibit 1c). Elevation of established OHWM (if known): N/A

2. Non-regulated waters/wetlands (check if applicable):³

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain: N/A

³ Supporting documentation is presented in Section III.F.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW

Identify TNW: San Diego Creek between Newport Bay outlet and Campus Drive weir.

Summarize rationale supporting determination: The previous approved JD that identified the boundary between section 10 and nonsection 10 waters (Corps File No. SPL-2008-437-CJD; Exhibit 2) referenced IRWD conductivity monitoring data showing that a tidal prism is muted but detectable between MacArthur Blvd and Campus Drive (Exhibits 3 and 4). This approved JD further indicated that "at high tide, tidal flow likely reaches as far [upstream] as Campus Dr. before Basin 2 weir"). Therefore, at high tide, tidal flows likely reach as far upstream as the downstream extent of this weir (Exhibit 1c).

2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is "adjacent": Wetlands directly abutting the TNW were identified within San Diego Creek in the report entitled, "San Diego Creek Flood Control Channel (Upper Newport Bay to I-405) Programmatic Operations and Maintenance Project: Delineation of State and Federal Jurisdictional Waters," by RBF Consulting, dated December 2007 (Exhibit 5). An email from the applicant's consultant verifying the current validity of this delineation was received May 9, 2016.

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody⁴ is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

(i) General Area Conditions:

Watershed size:Pick ListDrainage area:Pick ListAverage annual rainfall:inchesAverage annual snowfall:inches

(ii) Physical Characteristics:

(a) <u>Relationship with TNW:</u>
 ☐ Tributary flows directly into TNW.
 ☐ Tributary flows through **Pick List** tributaries before entering TNW.

Project waters are **Pick List** river miles from TNW. Project waters are **Pick List** river miles from RPW.

⁴ Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

	Project waters arePick List aerial (straight) miles from TNW.Project waters arePick List aerial (straight) miles from RPW.Project waters cross or serve as state boundaries. Explain:.
	Identify flow route to TNW ⁵ : . Tributary stream order, if known: .
(b)	General Tributary Characteristics (check all that apply): Tributary is:
	Tributary properties with respect to top of bank (estimate): Average width: feet Average depth: feet Average side slopes: Pick List.
	Primary tributary substrate composition (check all that apply):
	Tributary condition/stability [e.g., highly eroding, sloughing banks].Explain:Presence of run/riffle/pool complexes.Explain:Tributary geometry:Pick ListTributary gradient (approximate average slope):%
(c)	<u>Flow:</u> Tributary provides for: Pick List Estimate average number of flow events in review area/year: Pick List Describe flow regime: Other information on duration and volume:
	Surface flow is: Pick List. Characteristics:
	Subsurface flow: Pick List. Explain findings:
	Tributary has (check all that apply): Bed and banks OHWM ⁶ (check all indicators that apply): clear, natural line impressed on the bank changes in the character of soil destruction of terrestrial vegetation shelving vegetation matted down, bent, or absent leaf litter disturbed or washed away sediment deposition water staining other (list): Discontinuous OHWM. ⁷ Explain:
	If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply): High Tide Line indicated by: oil or scum line along shore objects fine shell or debris deposits (foreshore) physical markings/characteristics tidal gauges other (list):

⁵ Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW. ⁶A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break. ⁷Ibid.

(iii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: . Identify specific pollutants, if known: .

(iv) Biological Characteristics. Channel supports (check all that apply):

- Riparian corridor. Characteristics (type, average width):
- Wetland fringe. Characteristics:
- Habitat for:
 - Federally Listed species. Explain findings:
 - Fish/spawn areas. Explain findings:
 - Other environmentally-sensitive species. Explain findings:
 - Aquatic/wildlife diversity. Explain findings:

2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

(i) Physical Characteristics:

- (a) <u>General Wetland Characteristics:</u> Properties: Wetland size: acres Wetland type. Explain: Wetland quality. Explain: Project wetlands cross or serve as state boundaries. Explain:
- (b) <u>General Flow Relationship with Non-TNW</u>: Flow is: **Pick List**. Explain:

Surface flow is: Pick List Characteristics:

Subsurface flow: **Pick List**. Explain findings:

(c) <u>Wetland Adjacency Determination with Non-TNW:</u>

- Directly abutting
- □ Not directly abutting
 - Discrete wetland hydrologic connection. Explain:
 - Ecological connection. Explain:
 - Separated by berm/barrier. Explain:

(d) Proximity (Relationship) to TNW

Project wetlands are **Pick List** river miles from TNW. Project waters are **Pick List** aerial (straight) miles from TNW. Flow is from: **Pick List**. Estimate approximate location of wetland as within the **Pick List** floodplain.

(ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain:

Identify specific pollutants, if known:

(iii) Biological Characteristics. Wetland supports (check all that apply):

- Riparian buffer. Characteristics (type, average width):
- Vegetation type/percent cover. Explain:
- Habitat for:
 - Federally Listed species. Explain findings:
 - Fish/spawn areas. Explain findings:
 - Other environmentally-sensitive species. Explain findings:
 - Aquatic/wildlife diversity. Explain findings:

3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis: **Pick List** Approximately () acres in total are being considered in the cumulative analysis. For each wetland, specify the following:

Directly abuts? (Y/N) Size (in acres)

Directly abuts? (Y/N)

Size (in acres)

Summarize overall biological, chemical and physical functions being performed:

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

- 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
- 2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
- **3.** Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

- 2. <u>RPWs that flow directly or indirectly into TNWs.</u>
 - Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: The delineation of the project area provided as Exhibit 6 indicates on page 31 that the review area within San Diego Creek "is perennial, containing water year-round."
 - Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally:

Provide estimates for jurisdictional waters in the review area (check all that apply):

Tributary waters: 0.51 acre

- Other non-wetland waters: acres.
 - Identify type(s) of waters:

3. <u>Non-RPWs⁸ that flow directly or indirectly into TNWs</u>.

Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):

- Tributary waters: linear feet width (ft).
- Other non-wetland waters: acres. Identify type(s) of waters:
 - identify type(s) of waters: .
- 4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.

Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: The position of the non-section 10 wetlands adjacent to the San Diego Creek RPW is shown in Exhibit 1c.

Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:

Provide acreage estimates for jurisdictional wetlands in the review area: 0.66 acre.

Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.
 Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.

Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

7. Impoundments of jurisdictional waters.⁹

As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.

- Demonstrate that impoundment was created from "waters of the U.S.," or
- Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
- Demonstrate that water is isolated with a nexus to commerce (see E below).
- E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):¹⁰
 - which are or could be used by interstate or foreign travelers for recreational or other purposes.
 - from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
 - which are or could be used for industrial purposes by industries in interstate commerce.
 - Interstate isolated waters. Explain:
 - Other factors. Explain:

⁸See Footnote # 3.

⁹ To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

¹⁰ Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA *Memorandum Regarding CWA Act Jurisdiction Following Rapanos*.

Identify water body and summarize rationale supporting determination:

Provide estimates for jurisdictional waters in the review area (check all that apply):

Tributary waters: linear feet width (ft).

Other non-wetland waters: acres.

- Identify type(s) of waters:
- Wetlands: acres.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.

- Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
 - Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).



Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain:

Other: (explain, if not covered above):

acres.

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):

Non-wetland waters (i.e., rivers, streams): linear feet width (ft). Lakes/ponds: acres. Other non-wetland waters: acres. List type of aquatic resource:

Wetlands: acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):

Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).

Lakes/ponds:

Other non-wetland waters: acres. List type of aquatic resource:

Wetlands: acres.

SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):

Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: A map showing the jurisdictional wetland and nonwetland section 10/404 waters is provided as Exhibit 1. The IRWD figure provided depicts the areal extent upstream of the Newport Bay outlet where tidal flows are likely to reach (Exhibit 4).

- Data sheets prepared/submitted by or on behalf of the applicant/consultant.
 - Office concurs with data sheets/delineation report.
 - Office does not concur with data sheets/delineation report.

Data sheets prepared by the Corps: Wetland delineation data sheets were included in the report entitled, "San Diego Creek Flood Control Channel (Upper Newport Bay to I-405) Programmatic Operations and Maintenance Project: Delineation of State and Federal Jurisdictional Waters," by RBF Consulting, dated December 2007 (Exhibit 5). The consultant verified the current validity of the 2007 delineation report in an email received May 9, 2016 (Exhibit 6).

- Corps navigable waters' study:
- U.S. Geological Survey Hydrologic Atlas:
 - USGS NHD data.
 - USGS 8 and 12 digit HUC maps.
 - U.S. Geological Survey map(s). Cite scale & quad name:
 - USDA Natural Resources Conservation Service Soil Survey. Citation:
- National wetlands inventory map(s). Cite name:
- State/Local wetland inventory map(s):
- FEMA/FIRM maps:
- 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
 - Photographs: Aerial (Name & Date): or Other (Name & Date):
 - Previous determination(s). File no. and date of response letter:
- Applicable/supporting case law:
- Applicable/supporting scientific literature:

Other information (please specify): Electrical conductivity data consisting of IRWD monitoring data shows the extent of tidally-included area upstream of the outlet to Newport Bay (Exhibit 3).
 Other information (please specify): N/A

B. ADDITIONAL COMMENTS TO SUPPORT JD:

Exhibit 1









APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 30-Apr-2008

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Los Angeles District, SPL-2008-00437-CJF-JD1

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State :	CA - California
County/parish/borough:	Orange
City:	Newport Beach
Lat:	33.651
Long:	-117.867
Universal Transverse Mercator:	[]
Name of nearest waterbody:	San Diego Creek
Name of nearest Traditional Navigable Water (TNW):	San Diego Creek and Upper Newport Bay
Name of watershed or Hydrologic Unit Code (HUC):	Newport Bay

 \checkmark

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc;) are associated with the action and are recorded on a different JD form.

D. REVIEW PERFORMED FOR SITE EVALUATION:

01-May-2008

Office Determination Date:

V

Field Determination Date(s):

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION

There are "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area.

V

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

Explain:

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There [] "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area.

1. Waters of the U.S.

a. Indicate presence of waters of U.S. in review area:1

Water Name	Water Type(s) Present
San Diego Creek - Lower Creek	TNWs, including territorial seas

b. Identify (estimate) size of waters of the U.S. in the review area:

Area: (m²) Linear: (m)

c. Limits (boundaries) of jurisdiction:

based on: Established by mean(average) high waters. OHWM Elevation: 4.27 (if known)

2. Non-regulated waters/wetlands:³

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

1.TNW

TNW Name	Summarize rationale supporting determination:
San Diego Creek - Lower Creek	Tidal prism is muted but detectable from mouth u/s to between MacArthur Blvd and Campus Dr using IRWE conductivity monitoring data, which is u/s of County Basin 2. Weir u/s of County Basin 2 prevents tidal flow farther u/s. At high tide, tidal flow likely reaches as far u/s as Campus Dr before Basin 2 weir. Documentatic CJF 5/1/08

2. Wetland Adjacent to TNW

Not Applicable.

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

(i) General Area Conditions:

Watershed size:[]Drainage area:[]Average annual rainfall:inchesAverage annual snowfall:inches

(ii) Physical Characteristics

(a) Relationship with TNW:

Tributary flows directly into TNW.

Tributary flows through [] tributaries before entering TNW.

:Number of tributaries

Project waters are [] river miles from TNW.

Project waters are [] river miles from RPW.

Project Waters are [] aerial (straight) miles from TNW.

Project waters are [] aerial(straight) miles from RPW.

Project waters cross or serve as state boundaries. Explain:

Identify flow route to TNW:⁵

Tributary Stream Order, if known: Not Applicable.

(b) General Tributary Characteristics: Tributary is: Not Applicable.

Tributary properties with respect to top of bank (estimate): Not Applicable.

Primary tributary substrate composition: Not Applicable.

Tributary (conditions, stability, presence, geometry, gradient): Not Applicable.

(c) Flow: Not Applicable.

Surface Flow is: Not Applicable.

Subsurface Flow: Not Applicable.

Tributary has: Not Applicable.

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction:

High Tide Line indicated by: Not Applicable.

Mean High Water Mark indicated by: Not Applicable.

(iii) Chemical Characteristics: Characterize tributary (e.g., water color is clear, discolored, oily film; water quality;general watershed characteristics, etc.). Not Applicable.

(iv) Biological Characteristics. Channel supports: Not Applicable.

2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

(i) Physical Characteristics: (a) General Wetland Characteristics: Properties: Not Applicable.

(b) General Flow Relationship with Non-TNW: Flow is: Not Applicable.

Surface flow is: Not Applicable.

Subsurface flow: Not Applicable.

(c) Wetland Adjacency Determination with Non-TNW: Not Applicable.

(d) Proximity (Relationship) to TNW: Not Applicable.

(ii) Chemical Characteristics: Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Not Applicable.

(iii) Biological Characteristics. Wetland supports: Not Applicable.

3. Characteristics of all wetlands adjacent to the tributary (if any): All wetlands being considered in the cumulative analysis: Not Applicable.

Summarize overall biological, chemical and physical functions being performed: Not Applicable.

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Significant Nexus: Not Applicable

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT

https://orm.usace.army.mil/orm2/f?p=106:34:1496623191634945::NO::

WATERS/WETLANDS ARE:

1. TNWs and Adjacent Wetlands:

Wetland Name	Туре	Size (Linear) (m)	Siz
San Diego Creek - Lower Creek	TNWs, including territorial seas	-	404.6
Total:		0	404.6

2. RPWs that flow directly or indirectly into TNWs: Not Applicable.

Provide estimates for jurisdictional waters in the review area: Not Applicable.

3. Non-RPWs that flow directly or indirectly into TNWs:⁸ Not Applicable.

Provide estimates for jurisdictional waters in the review area: Not Applicable.

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs. Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area: Not Applicable.

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs: Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area: Not Applicable.

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs: Not Applicable.

Provide estimates for jurisdictional wetlands in the review area: Not Applicable.

7. Impoundments of jurisdictional waters:⁹ Not Applicable.

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS:¹⁰

Not Applicable.

Identify water body and summarize rationale supporting determination: Not Applicable. **Provide estimates for jurisdictional waters in the review area:** Not Applicable.

F. NON-JURISDICTIONAL WATERS. INCLUDING WETLANDS

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements:

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce:

Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based soley on the "Migratory Bird Rule" (MBR):

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (Explain):

Other (Explain):

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (ie., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment: Not Applicable.

Provide acreage estimates for non-jurisdictional waters in the review area, that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Not Applicable.

SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD

(listed items shall be included in case file and, where checked and requested, appropriately reference below):

	,	
Data Reviewed	Source Label	Source Description
Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant	IRWD figure and data	IRWD data trends of electrical conductivity at monitoring station sh u/s of basin 2. Figure depicts areal extent u/s of mouth where tidal likely to reach, i.e., between MacArthur Blvd and Campus Dr cross
Data sheets prepared/submitted by or on behalf of the applicant/consultant	Data Sheets	wetland data sheets prepared by LSA 6/9/06 show wetlands prese outside impact area; submitted with app package
Office concurs with data sheets/delineation report	-	-
U.S. Geological Survey map(s).	-	-
Other information	Tide planes and Tidal Data	NOAA Tidal Datum Sheet for Newport Bay, pub 7/17/89 shows Mł MLLW for Section 10 and MHHW at +5.40' MLLW as approx. High
Other information	Electrical conductivity data	IRWD monitoring data for electrical conductivity shows extent of tion influenced area

B. ADDITIONAL COMMENTS TO SUPPORT JD:

Not Applicable.

¹-Boxes checked below shall be supported by completing the appropriate sections in Section III below.

²-For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

³-Supporting documentation is presented in Section III.F.

⁴-Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

⁵-Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

⁶-A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

⁷-Ibid.

⁸-See Footnote #3.

⁹ -To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

¹⁰-Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

Exhibit 3

IndustrialSQL Server: Trend





Exhibit 4



SAN DIEGO CREEK FLOOD CONTROL CHANNEL (UPPER NEWPORT BAY TO I-405) PROGRAMMATIC OPERATIONS AND MAINTENANCE PROJECT

COUNTY OF ORANGE, CALIFORNIA

Delineation of State and Federal Jurisdictional Waters

Prepared For:

County of Orange Resources and Development Management Department 300 North Flower Street Santa Ana, California 92703-5000 *Contact: Ms. Nardy Khan* 714/834-2340

Prepared By:

RBF Consulting 14725 Alton Parkway Irvine, California 92618 *Contact: Mr. Richard Beck* 949/855-3687

December 2007

SAN DIEGO CREEK FLOOD CONTROL CHANNEL (UPPER NEWPORT BAY TO I-405) PROGRAMMATIC OPERATIONS AND MAINTENANCE PROJECT COUNTY OF ORANGE, CALIFORNIA

Delineation of State and Federal Jurisdictional Waters

The undersigned certify that this report is a complete and accurate account of the findings and conclusions of a jurisdictional "waters of the U.S." (including wetlands) and "waters of the State" determination for the above-referenced project.



Lauren See Regulatory Specialist Planning and Environmental Services

chand Back

Regulatory Manager Planning and Environmental Services

December 19, 2007

Executive Summary

At the request of the County of Orange Resources and Development Management Department (RDMD), RBF Consulting (RBF) has prepared this Delineation of Jurisdictional Waters for the San Diego Creek Flood Control Channel (Facility F05), from Jamboree Road to Interstate 405 (I-405), located within the Cities of Newport Beach and Irvine, County of This delineation is the first to be completed after the interim Orange, California. maintenance activities that concluded in early March 2007. This delineation was conducted on March 14, and April 11, 18, and 19, 2007 to document the regulatory authority of the U.S. Army Corps of Engineers (ACOE); the Santa Ana Regional Water Quality Control Board (RWQCB); the California Department of Fish and Game (CDFG); and the California Coastal Applicable state and federal regulations include the Federal Clean Commission (CCC). Water Act (CWA), the California Fish and Game Code, the California Porter-Cologne Act, and California Coastal Act. The project area was surveyed pursuant to the Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (ACOE, 2006), to identify evidence of hydrology, hydrophytic vegetation, and hydric soils; and the Field Guide to Lake and Streambed Alteration Agreements Section 1600-1607 (CDFG, 1994) to identify evidence of streambed(s) and associated riparian vegetation.

This report presents RBF's best effort at determining the jurisdictional boundaries using the most up-to-date regulations, written policy, and guidance from the regulatory agencies. However, as with any jurisdictional delineation, only the regulatory agencies can make a final determination of jurisdiction. Generally, this would be a written concurrence in the form of a Jurisdictional Determination (JD) letter.

Table ES-1, below, indicates each regulatory agency and their corresponding jurisdictional acreage located within the project site.

Agency	Total Jurisdictional Impact Acreage	
U.S. Army Corps of Engineers	62.12	
Regional Water Quality Control Board	Same as ACOE	
California Department of Fish and Game	83.88	
California Coastal Commission	26.89	

TABLE	ES-1.	Summary	Table

Table of Contents

1.0	INTRODUCTION AND PURPOSE	1
1.1	Project Site Background	5
1.2	Project Description	6
2.0	SUMMARY OF REGULATIONS	8
2.1	U.S. Army Corps of Engineers	8
2.2	Regional Water Quality Control Board	9
2.3	California Department of Fish and Game	10
2.4	California Coastal Commission	10
2.5	Activities Requiring Permits	13
3.0	METHODOLOGY	14
3.1	Vegetation	14
3.2	Hydrology	16
3.3	Soils	17
3.4	Literature Review	
4.0	SITE CONDITIONS	25
4.1	Basin 1	25
4.2	Basin 2	29
4.3	Basin 3	
5.0	FINDINGS	31
5.1	U.S. Army Corps of Engineers Determination	31
5.2	Regional Water Quality Control Board Determination	
5.3	California Department of Fish and Game Determination	
5.4	California Coastal Commission Determination	
6.0	REGULATORY APPROVAL PROCESS	42
6.1	U.S. Army Corps of Engineers Determination	
6.2	Regional Water Quality Control Board Determination	43
6.3	California Department of Fish and Game Determination	43
6.4	California Coastal Commission Determination	44
6.5	Global Recommendations	
7.0	REFERENCES	46

LIST OF EXHIBITS

1.	Regional Vicinity	2
2.	Site Vicinity	3
3.	Project Site	4
4.	On-Site Photographs 4A-4C	.26
5.	Jurisdictional Maps 5A-5G	.35

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TABLES

1.	Lower San Diego Creek Channel Features	1
2.	Topographic Summary	19
3.	Project Site Summary	24
4.	ACOE Jurisdictional Impact Acreage Summary	33
5.	CDFG Jurisdictional Impact Acreage Summary	33
6.	CCC Jurisdictional Impact Acreage Summary	34

APPENDIX

Α.	Wetland	Data	Forms

ACRONYMS

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ACOE	Army Corps of Engineers
BGS	Below Ground Surface
CCC	California Coastal Commission
CCMP	California Coastal Management Plan
CCR	California Code of Regulations
CDFG	California Department of Fish and Game
CDP	Coastal Development Permit
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
CWA	Clean Water Act
CZMP	California Zone Management Plan
EPA	Environmental Protection Agency
FAC	Facultative Vegetation
FACU	Facultative Vegetation
FACW	Facultative Wetland Vegetation
GPS	Global Positioning System
IP	Individual Permit
MSL	Mean Sea Level
NRCS	Natural Resources Conservation Service
NOD	Notice of Determination
NWP	Nationwide Permit
OBL	Obligate Wetland Vegetation
OHWM	Ordinary High Water Mark
OU	Operable Unit
RBF	RBF Consulting
RDMD	Resources and Development Management Department
RWQCB	Regional Water Quality Control Board
SAA	Streambed Alteration Agreement
SWANCC	Solid Water Agency of Northern Cook County
UPL	Obligate Upland Vegetation
USDA	United States Department of Agriculture
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey

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Section 1 Introduction and Purpose

This delineation was prepared for the County of Orange Resources and Development Management Department (RDMD), in order to delineate the U.S. Army Corps of Engineers' (ACOE), Regional Water Quality Control Board's (RWQCB), California Department of Fish and Game's (CDFG), and California Coastal Commission's (CCC) jurisdictional authority within the San Diego Creek Flood Control Channel (Facility F05), from Jamboree Road to Interstate 405 (I-405), herein referred to as the project site.

The project site is located along the San Diego Creek Flood Control Channel within the Cities of Newport Beach and Irvine, County of Orange, State of California (T.6S, R.9W, Sections 51, 57, 58, 59, and 60; San Bernardino Base and Meridian [SBBM]) (refer to Exhibit 1, *Regional Vicinity*). Basins 1, 2, and 3 are generally located south of Interstate 405 (I-405) and extend approximately 15,000 linear feet southwest towards Jamboree Road. The Lower Channel area extends from Jamboree Road to upstream of MacArthur Boulevard; Basin 1 is situated upstream of MacArthur Boulevard and extends northeast to Campus Drive; Basin 2 is situated upstream of Campus Drive and extends 1,800 feet to the northeast; Basin 3 extends from the northeast end of Basin 2 to approximately 1,000 feet downstream of Michelson Drive; and the Upper Channel Area is situated from the end of Basin 3 upstream to the I-405 (Refer to Exhibit 2, *Site Vicinity* and Exhibit 3, *Project Site*).

Existing uses in the vicinity of the project site include the San Joaquin Marsh Wildlife Sanctuary, William R. Mason Regional Park, Rancho San Joaquin Golf Course, industrial, residential, commercial, and the University of California, Irvine. On-site elevations range from approximately 0.0 feet above mean sea level (msl) in the invert of the creek and basins to 20.0 feet above msl for the channel banks and surrounding area.

Feature	Descriptive limits
Lower Channel	Jamboree Rd. to U/S MacArthur Blvd.
Basin 1	U/S MacArthur Blvd. to Campus Dr.
Basin 2	Campus Drive to 1,800' U/S of Campus Dr.
Basin 3	1,800' U/S Campus Dr. to 1,000' D/S Michelson Dr.
Upper Channel	1,000' D/S Michelson Dr to I-405 Freeway

 TABLE 1. Lower San Diego Creek Channel Features



CONSULTING 4/30/07 JN 10-103795-13931





Project Reach



In-Channel Basin Limits



SAN DIEGO CREEK CHANNEL (F05) POST-INTERIM MAINTENANCE • JURISDICTIONAL DELINEATION **Project Site**

CONSULTING 8/21/07 JN 10-103795-13931

This delineation has been designed to document the authority of the regulatory agencies, the methodology undertaken by RBF Consulting (RBF) to document jurisdictional authority, and the findings made by RBF within the boundaries of the project site. This report presents our best effort at determining the jurisdictional boundaries using the most up-to-date regulations, written policy, and guidance from the regulatory agencies; however, only the regulatory agencies can make a final determination of jurisdictional boundaries.

1.1 PROJECT SITE BACKGROUND

San Diego Creek is the primary freshwater input into Newport Bay and also provides a corridor for wildlife movement between the Bay, Marsh, and upland areas. Since the late 1970s excess sediment entering Newport Bay from San Diego Creek has been identified as creating impairment to the beneficial uses of the Bay, impacting habitat, recreation, and navigational uses. To reduce sediment, three in-line sediment basins (Basins 1, 2, and 3) were built in the lower reach of the San Diego Creek Flood Control Channel. Basin 1 was built in 1983 and Basins 2 and 3 were constructed in 1985 and 1986. Lengthy retention times in these basins allow soil particles to settle out of the water column before San Diego Creek discharges into Upper Newport Bay. A report entitled *Enhancement Plan For Lower San Diego Creek* (July 2000) recommended modifications to the basins to reduce the scour potential during high storm flow events. In January 2004 Basin 2 was partially deepened in order to increase the basin's sediment trapping capability.

The in-line basins have been periodically dredged since their original construction. In 1997 the Irvine Ranch Water District (IRWD) dredged the basins and used the sediment to construct the San Joaquin Marsh Sanctuary. Dredging operation also occurred in 1998 after the 1997/1998 El Niño season. Since that time, dredging of the basins was not needed because of the record subnormal rainfall seasons. Consequently, vegetation growth crept into the basin areas. The additional vegetation in the basins resulted in a significant reduction of channel flood capacity.

In fall of 2003, the Orange County Flood Control District (OCFCD) evaluated the hydraulic affects of the increased vegetation and sediment on the channel flood capacity. The results of the hydraulic analysis indicated that Lower San Diego Creek Flood Control Channel could only convey 54 percent of its original design capacity. The consequential loss of channel flood capacity could result in flooding of the Michelson Wastewater Reclamation Plant (MWRP), an assisted care facility and community church. The IRWD adopted a resolution supporting the emergency project on December 15, 2003. The MWRP would be at risk during flooding from significant storm events causing the plant to shut down with loss of sewer service to over 40,000 residents. The study also estimated that approximately four

million gallons per day of raw sewage could potentially flow into Upper Newport Bay. With this information, RDMD prepared an Emergency Action Plan to restore the channel capacity. On December 16, 2003, the Board of Supervisors of the OCFCD declared an emergency project for the Lower San Diego Creek Flood Control Channel between Jamboree Road and I-405. Implementation of the emergency project consisted of maintaining a 40-foot wide vegetated habitat corridor on the east side of the channel, selective vegetation removal within the 40-foot wide habitat area, vegetation removal in the channel bottom and side slopes, and removal of accumulated sediment in the channel area to restore flood conveyance capability. The work area was limited to the extreme northwestern slope of Basin 1 (by Campus Bridge), and both sides of Basins 2 and 3. Work downstream of Basin 1 within the Coastal Zone was not allowed; however, work upstream of Basin 3 to I-405 was authorized. Vegetation removal began in December 2003 and sediment removal operations stopped on March 28, 2004. The emergency contractor was unable to remove all the sediment within Basins 2 and 3 because of the arrival of a federally listed endangered species, the least Bell's vireo (LBV).

Removal of the remaining sediment and routine vegetation management in the emergency project footprint was necessary to achieve the goal of the emergency project. The remaining work was conducted in early 2007, and included removing the remaining sediment within the channel area, reestablishing the basin capacity on the east side of Basins 2 and 3, and routine vegetation management of areas disturbed within the emergency project footprint (including the upstream portion to I-405). The vegetation management activities consisted of establishing native grassland on the west side slope of a portion of Basin 1, channel side slopes and west side channel bottom in Basins 2 and 3, and on both side slopes in the channel from Basin 3 up to I-405; and the established 40-foot wide vegetation area in Basins 2 and 3 and up to I-405 was maintained, which included removing non-native vegetation and thinning the trees that were greater than 3 inches diameter at breast height. Four (4) trees per one hundred lineal feet of channel were left to provide top story structure to the habitat area. In Basins 2 and 3, a portion of the accumulated sediment that was not removed during the emergency project, was excavated to restore flood control capacity. To date, Basin 1 and the lower channel near the Bay have not been maintained.

1.2 **PROJECT DESCRIPTION**

Long-term routine vegetation management and sediment removal in the channel areas is necessary to prevent excessive vegetation growth that would significantly reduce the channel flood control capacity. This delineation has been conducted in order to establish a baseline to be used in the Operations and Maintenance (O&M) Manual and Environmental Impact Report (EIR) for the long-term maintenance, which are currently being prepared under separate covers. Per the O&M Manual, the project site is divided into two Reaches. Reach I (Station 6+05 to Station 58+00) is located within the Coastal Zone. Reach II (Station 58+00 to Station 158+00) is located outside of the Coastal Zone.

.....

Section 2 Summary of Regulations

There are four (4) key agencies that regulate activities within streams, wetlands, and riparian areas in California. The ACOE Regulatory Branch regulates activities pursuant to Section 404 of the Federal Clean Water Act (CWA), and Section 10 of the Rivers and Harbors Act. Of the State agencies, the CDFG regulates activities under the Fish and Game Code Section 1600-1616, the RWQCB pursuant to Section 401 of the CWA and the California Porter-Cologne Act, and the California Coastal Commission regulates activities under the California Coastal Act of 1976.

2.1 U.S. ARMY CORPS OF ENGINEERS

The ACOE has regulatory authority over the discharge of dredged or fill material into the waters of the United States under Section 404 of the CWA. The ACOE and Environmental Protection Agency (EPA) recently clarified and simplified the definition of "fill material" to include any "material placed in waters of the United States where the material has the effect of: (i) Replacing any portion of a water of the United States with dry land; or (ii) Changing the bottom elevation of any portion of the waters of the United States." Examples include, but are not limited to sand, rock, clay, construction debris, wood chips, and "materials used to create any structure or infrastructure in the waters of the United States." The term "waters of the United States" includes the following:

- (1) all waters that have, are, or may be used in interstate or foreign commerce (including sightseeing or hunting), including all waters subject to the ebb and flow of the tide;
- (2) wetlands;
- (3) all waters such as interstate 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;
- (4) all impoundments of water mentioned above;
- (5) all tributaries of waters mentioned above;
- (6) the territorial seas; and
- (7) all wetlands adjacent to the waters mentioned above.
Under this definition, and in the absence of wetlands, the limits of the ACOE's jurisdiction in non-tidal waters extend to the ordinary high water mark (OHWM), which is defined as "... that line on the shore established by the fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas (33 CFR §328.3(e))."

Wetlands, a subset of jurisdictional waters, are jointly defined by the ACOE and EPA as *"those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions (33 CFR §328.3(b))".* Wetlands generally include swamps, marshes, bogs, and similar areas. The process in which jurisdictional areas (if any) are identified is further discussed in Section 3.0, *Methodology.*

2.2 REGIONAL WATER QUALITY CONTROL BOARD

The nine (9) Regional Boards have the responsibility for protecting water quality in California. The RWQCB regulates discharges to surface waters under the Federal CWA and the California Porter-Cologne Water Quality Control Act. The RWQCB's jurisdiction extends to all waters of the State and to all waters of the United States, including wetlands (isolated and non-isolated conditions).

Section 401 of the CWA gives the RWQCB the authority to regulate through 401 Certification any proposed federally permitted activity, which may affect water quality. Among such activities are discharges of dredged or fill material permitted by the ACOE pursuant to Section 404 of the CWA. Section 401 requires the RWQCB to provide "certification that there is reasonable assurance that an activity which may result in the discharge to waters of the United States will not violate water quality standards." Water Quality Certification must be based on a finding that the proposed discharge will comply with water quality standards, of which are found as numeric and narrative objectives in each of the nine (9) Regional Board's Basin Plan.

The Porter-Cologne Water Quality Control Act gives the State very broad authority to regulate waters of the State, which are defined as any surface water or groundwater, including saline waters. The Porter-Cologne has become an important tool in the post *Solid Waste Agency of Northern Cook County* (SWANCC) *v. U.S. Army Corps of Engineers et al* era, with respect to the State's authority over isolated waters. Generally, any person proposing to discharge waste into a water body that could affect its water quality must file a

Report of Waste Discharge (should there be no Section 404 nexus). Although "waste" is partially defined as any waste substance associated with human habitation, the RWQCB also interprets this to include fill discharged into water bodies.

2.3 CALIFORNIA DEPARTMENT OF FISH AND GAME

Historically, the State of California regulated activities in rivers, streams, and lakes pursuant to Sections 1600-1607 of the California Fish and Game Code. Legislation that took effect on January 1, 2004 repealed Fish and Game Code sections 1600-1607 and added Fish and Game Code sections 1600-1616. The most important issue to note with this change is that now there is no separation between private/public notifications (previously 1601/1603). Fish and Game Code section 1602 requires any person, state or local governmental agency, or public utility to notify the CDFG before beginning any activity that will do one or more of the following:

- (1) substantially obstruct or divert the natural flow of a river, stream, or lake;
- (2) substantially change or use any material from the bed, channel, or bank of a river, stream, or lake; or
- (3) deposit or dispose of debris, waste, or other material containing crumbled, flaked, or ground pavement where it can pass into a river, stream, or lake.

This notification process is referred to as a 1602 Streambed Alteration Agreement (SAA). Fish and Game Code section 1602 applies to all perennial, intermittent, and ephemeral rivers, streams, and lakes in the state. Jurisdictional limits of the CDFG are not as clearly defined by regulation as those of the ACOE. While they closely resemble the limits described by ACOE regulations, they include riparian habitat supported by a river, stream, or lake regardless of the presence or absence of hydric soils and saturated soil conditions. Generally, the CDFG takes jurisdiction to the top of bank of the stream or to the outer limit of the adjacent riparian vegetation (outer drip line), whichever is greater. Notification is generally required for any project that will take place in or in the vicinity of a river, stream, lake, or their tributaries. This includes rivers or streams that flow at least periodically or permanently through a bed or channel with banks that support fish or other aquatic life and watercourses having a surface or subsurface flow that support or have supported riparian vegetation.

2.4 CALIFORNIA COASTAL COMMISSION

The CCC was established by voter initiative in 1972 (Proposition 20) and later made permanent by the Legislature through adoption of the California Coastal Act of 1976. The CCC, in partnership with coastal cities and counties, plans and regulates the use of land and water in the coastal zone. Development activities, which are broadly defined by the Coastal Act to include (among others) construction of buildings, divisions of land, and activities that change the intensity of use of land or public access to coastal waters, generally require a coastal permit from either the CCC or the local government.

The Coastal Act includes specific policies that address issues such as shoreline public access and recreation, lower cost visitor accommodations, terrestrial and marine habitat protection, visual resources, landform alteration, agricultural lands, commercial fisheries, industrial uses, water quality, offshore oil and gas development, transportation, development design, power plants, ports, and public works. The policies of the Coastal Act constitute the statutory standards applied to planning and regulatory decisions made by the CCC and by local governments, pursuant to the Coastal Act.

Jurisdictional Areas within the Coastal Zone:

A comprehensive classification system of wetlands and deepwater habitats (also referred to as the "Cowardin Wetland Classification System") was developed for the U.S. Fish and Wildlife Service (USFWS) in order to create the National Inventory of Wetlands. Under this hierarchical system, classification is based on hydrologic regime, vegetative community, and to a lesser extent on water chemistry and soils. The classification includes both wetlands and deepwater habitats. The Cowardin system includes several layers of detail for wetland classification including: a subsystem of water flow, classes of substrate types, subclasses of vegetation types and dominant species, as well as flooding regimes and salinity levels within the system. Overall, the Cowardin system and the ACOE Section 404 regulations define wetlands differently. The most significant difference is that the Cowardin system defines wetlands to include mudflats and other wet areas that lack vegetation.

According to the classification, the USFWS defines wetlands as follows: "Wetlands are lands transitional between terrestrial and aquatic systems where the water table is usually at or near the surface or the land is covered by shallow water. For purposes of this classification, wetlands must have one or more of the following three attributes: (1) at least periodically, the land supports predominately hydrophytes; (2) the substrate is predominately undrained hydric soil; and (3) the substrate is non-soil and is saturated with water or covered by shallow water at some time during the growing season of each year."

At the State and regional levels, the CDFG and the CCC, accept the USFWS definition and use it as a guide in identifying wetlands and in implementing their wetland policies. The Coastal Act (PRC Section 30121) defines "wetlands" as "lands within the Coastal Zone which may be covered periodically or permanently with shallow water and include saltwater

marshes, freshwater marshes, open or closed brackish water marshes, swamps, mudflats, and fens." In addition, the Coastal Act (PRC Section 30107.5) defines environmentally sensitive areas in a manner that would include rivers, streams or other aquatic habitat. The Coastal Act defines wetland fill (Section 30233(a)) as the following:

The diking, filling, or dredging of open coastal waters, wetlands, estuaries, and lakes shall be permitted in accordance with other applicable provisions of this division, where there is no feasible less environmentally damaging alternative, and where feasible mitigation measures have been provided to minimize adverse environmental effects, and shall be limited to the following:

- (1) New or expanded port, energy, and coastal-dependent industrial facilities, including commercial fishing facilities.
- (2) Maintaining existing or restoring previously dredged depths in existing navigational channels, turning basins, vessel berthing and mooring areas, and boat launching ramps.
- (3) In wetland areas only, entrance channels for new or expanded boating facilities; and in a degraded wetland, identified by the Department of Fish and Game pursuant to subdivision (b) of Section 30411, for boating facilities if, in conjunction with such boating facilities, a substantial portion of the degraded wetland is restored and maintained as a biologically productive wetland, provided, however, that in no event shall the size of the wetland area used for such boating facilities, including berthing space, turning basins, necessary navigation channels, and any necessary support service facilities, be grater than 25 percent of the total wetland area to be restored.
- (4) In open coastal waters, other than wetlands, including streams, estuaries, and lakes, new or expanded boating facilities and the placement of structural pilings for public recreational piers that provide public access and recreational opportunities.
- (5) Incidental public service purposes, including but not limited to, burying cables and pipes or inspection of piers and maintenance of existing intake and outfall lines.
- (6) Mineral extraction, including sand for restoring beaches, except in environmentally sensitive areas.
- (7) Restoration purposes.
- (8) Nature study, aquaculture, or similar resource-dependent activities.

Flood Control Maintenance Activities:

Pursuant to Section 30236, channelization, dams, or other substantial alterations (such as vegetation removal) of rivers and streams shall incorporate the best mitigation measures feasible, and be limited to:

- (1) Necessary water supply projects.
- (2) Flood control projects where no other method for protecting existing structures in the floodplain is feasible and where such protection is necessary for public safety or to protect existing development.
- (3) Developments where the primary function is the improvement of fish and wildlife habitat.

2.5 ACTIVITIES REQUIRING PERMITS

Any development proposal (including maintenance) that involves impacting drainages, streams, or wetlands on the site through filling, stockpiling, conversion to a storm drain, channelization, bank stabilization, road or utility line crossings, or any other modification would require permits from the ACOE, the RWQCB, the CDFG, and the CCC before any development could commence on the project site. Both permanent and temporary impacts are regulated and would therefore trigger the need for permits.

There are two (2) different permit categories utilized by the ACOE, which include either a Nationwide Permit (NWP) or Individual Permit (IP). The specific permit required is primarily based on project description and jurisdictional impacts. The ACOE will not issue its authorization until the RWQCB completes the Section 401 Water Quality Certification. Processing of the 401 Certification with the RWQCB and SAA with the CDFG can occur concurrently with the ACOE permit process, since the agencies can utilize the same information and analysis. Applications to both the RWQCB and the CDFG require submittal of a valid California Environmental Quality Act (CEQA) document along with the application.

New development or maintenance within the Coastal Zone that requires a permit from the CCC or the appropriate local government includes the placement of any solid material or structure; a change in land use density or intensity (including any land division); change in the intensity of water use or access to water; and removal of vegetation.

Section 3 Methodology

Prior to visiting the project site, RBF conducted a review of United States Geological Survey (USGS) topographic maps, aerial photographs, and the State of California Hydric Soils List, (dated 1995), and existing studies, to identify areas that may fall under an agency's jurisdiction (refer to Section 3.5, *Literature Review*, for a complete discussion).

ACOE jurisdictional wetlands are delineated using the methods outlined in the ACOE *Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region* (2006). The methodology set forth in the Interim Regional Supplement is based on the following three (3) indicators that are normally present in wetlands: (1) hydrology providing permanent or periodic inundation by groundwater or surface water, (2) hydric soils, and (3) hydrophytic vegetation. In order to be considered a wetland, an area must exhibit at least minimal hydric characteristics within these three parameters. As described in Section 2.0, ACOE non-wetland waters of the U.S. are delineated based on the limits of the OHWM as determined by erosion, the deposition of vegetation or debris, and changes in the vegetation. The RWQCB shares ACOE jurisdiction, unless isolated conditions are present. In the presence of isolated conditions, the RWQCB takes jurisdiction via the OHWM and/or the 3-parameter wetland methodology utilized by the ACOE. The CDFG's and CCC's jurisdiction is defined to the top of bank of the stream/channel or to the limit of the adjacent riparian vegetation.

Analysis presented in this document consists of field surveys and verification of current conditions conducted on March 14, and April 11, 18, and 19, 2007. While in the field, jurisdictional areas were recorded onto a base map at an approximate scale of 1"= 80' using the topographic contours and visible landmarks as guidelines. Data points were taken with a Trimble Geo XT Ground Positioning System (GPS) with ESRI Arc Pad 6.0/7.0 in order to record and identify specific jurisdictional OHWM areas, soil pits, picture locations, and drainage features. This data was then transferred via a USB port as a .shp file and added to the project's jurisdictional map and included in the delineation report. In the field, vegetation, soils, and evidence of hydrology were examined via the methodology listed below:

3.1 VEGETATION

Nearly 5,000 plant types in the United States may occur in wetlands. These plants, known as hydrophytic vegetation, are listed in regional publications of the U.S. Fish and Wildlife Service (USFWS). In general, hydrophytic vegetation is present when the plant community

is dominated by species that can tolerate prolonged inundation or soil saturation during growing season. Hydrophytic vegetation decisions are based on the assemblage of plant species growing on a site, rather than the presence or absence of particular indicator species. Vegetation strata are sampled separately when evaluating indicators of hydrophytic vegetation. A stratum for sampling purposes is defined as having 5 percent or more total plant cover. The following vegetation strata are recommended for use across the Arid West.

- *Tree Stratum:* Consists of woody plants 3 inches or more in diameter at breast height (DBH).
- Sapling/shrub stratum: Consists of woody plants less than 3 inches in DBH, regardless of height.
- *Herb stratum:* Consists of all herbaceous (non-woody) plants, including herbaceous vines, regardless of size.
- *Woody vines:* Consists of all woody vines, regardless of size.

The following indicators are applied in the sequence presented. Hydrophytic vegetation is present if any of the indicators is satisfied.

3.1.1 Indicator 1 – Dominance Test

Cover of vegetation is estimated and is ranked according to their dominance. Species that contribute to a cumulative total of 50% of the total dominant coverage, plus any species that comprise at least 20% (also known as the "50/20 rule") of the total dominant coverage are recorded on a wetland data sheet (included in Appendix A). Wetland indicator status is assigned to each species using *The List of Plant Species that Occur in Wetlands* (USFWS, 1988). If greater than 50% of the dominant species from all strata were Obligate, Facultative-wetland, or Facultative species, the criteria for wetland vegetation was considered to be met. Plant indicator status categories are described below:

- *Obligate Wetland (OBL):* Plants that occur almost always (estimated >99 percent) in wetlands under natural conditions, but which may also occur rarely (estimated <1 percent) in non-wetlands (i.e., cattail or pickleweed).
- *Facultative Wetland (FACW):* Plants that occur usually (estimated >67 to 99 percent) in wetlands, but also occur (estimated 1 to 33 percent) in non-wetlands (i.e., mulefat or willow).

- *Facultative (FAC):* Plants with similar likelihood (estimated 33 to 67 percent) of occurring in both wetlands and non-wetlands.
- *Facultative Upland (FACU):* Plants that occur sometimes (estimated 1 to <33 percent) in wetlands, but occur more often (estimated >67 to 99 percent) in non-wetlands.
- *Obligate Upland (UPL):* Plants that occur rarely (estimated 1 percent) in wetlands, but occur almost always (estimated >99 percent) in non-wetlands under natural conditions.

3.1.2 Indicator 2 – Prevalence Index

The prevalence index is used to determine whether hydrophytic vegetation is present on sites where indicators of hydric soil and wetland hydrology are present but the vegetation initially fails the dominance test. The prevalence index takes in consideration all plant species in the community, not just a few dominants. The prevalence index is a weighted-average wetland indicator status of all plant species in the sampling plot, where each indicator status category is given a numeric code (OBL = 1, FACW = 2, FAC = 3, FACU = 4, and UPL = 5) and weighing is abundance (percent cover). Hydrophytic vegetation is present if the prevalence index is 3.0 or less.

3.1.3 Indicator 3 – Plant Morphological Adaptations

Plant morphological adaptations can be used to distinguish certain wetland plant communities in the Arid West, when indicators of hydric soil and wetland hydrology are present. Some hydrophytes develop easily recognized physical characters, or morphological adaptations, when they occur in wetland areas. Common morphological adaptations include, but are not necessarily limited to, adventitious roots and shallow root systems developed on or near the soil surface. To apply this indicator, these morphological features must be observed on more than 50 percent of the individuals of a FACU species living in an area where indicators of hydric soil and wetland hydrology are present.

3.2 HYDROLOGY

Wetland hydrology indicators are presented in four (4) groups, which include:

3.2.1 Group A – Observation of Surface Water or Saturated Soils

Group A are based on the direct observation of surface water or groundwater during the site visit.

3.2.2 Group B – Evidence of Recent Inundation

Group B consist of evidence that the site is subject to flooding or ponding, although it may not be inundated currently. These indicators include water marks, drift deposits, sediment deposits, and similar features.

3.2.3 Group C – Evidence of Recent Soil Saturation

Group C consist of indirect evidence that the soil was saturated recently. Some of these indicators, such as oxidized rhizopheres surrounding living roots and the presence of reduced iron or sulfur in the soil profile, indicate that the soil has been saturated for an extended period.

3.2.4 Group D – Evidence from Other Site Conditions or Data

Group D consist of vegetation and soil features that indicate contemporary rather than historical wet conditions, and include shallow aquitard and the FAC-neutral test.

If wetland vegetation criteria is met, the presence of wetland hydrology is evaluated at each transect by recording the extent of observed surface flows, depth of inundation, depth to saturated soils, and depth to free water in the soil test pits. The lateral extent of the hydrology indicators are used as a guide for locating soil pits for evaluation of hydric soils and jurisdictional areas. In portions of the stream where the flow is divided by multiple channels with intermediate sand bars, the entire area between the channels is considered within the OHWM and the wetland hydrology indicator is considered met for the entire area.

3.3 SOILS

A hydric soil is a soil that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper 16 inches. The concept of hydric soils includes soils developed under sufficiently wet conditions to support the growth and regeneration of hydrophytic vegetation. Soils that are sufficiently wet because of artificial measures are included in the concept of hydric soils. It should also be noted that the limits of wetland hydrology indicators are used as a guide for locating soil pits. If any hydric soil features are located, progressive pits are dug moving laterally away from the active channel until hydric features are no longer present within the top 16 inches of the soil profile.

Once in the field, soil characteristics are verified by digging soil pits along each transect to a depth of at least 20 inches; in areas of high sediment deposition, soil pit depth may be increased. Soil pit locations are usually placed within the drainage invert or within adjoining vegetation. At each soil pit, the soil texture and color are recorded by comparison with

standard plates within a *Munsell Soil Chart* (1994). Munsell Soil Charts aid in designating color labels to soils, based by degrees of three simple variables-hue, value, and chroma. Any indicators of hydric soils, such as organic accumulation; iron reduction, translocation, and accumulation; and sulfate reduction are also recorded.

Hydric soil indicators are present in three (3) groups, which include:

3.3.1 All Soils

All soils refers to soils with any USDA soil texture. Hydric soil indicators within this group include histosol, histic epipedon, black histic, hydrogen sulfide, stratified layers, 1 cm muck, depleted below dark surface, and thick dark surface.

3.3.2 Sandy Soils

Sandy soils refers to soil materials with a USDA soil texture of loamy fine sand and coarser. Hydric soil indicators within this group include sandy mucky mineral, sandy gleyed matrix, sandy redox, and stripped matrix.

3.3.3 Loamy and Clayey Soils

Loamy and clayey soils refers to soil materials with a USDA soil texture of loamy very fine sand and finer. Hydric soil indicators within this group include loamy mucky mineral, loamy gleyed matrix, depleted matrix, redox dark surface, depleted dark surface, redox depressions, and vernal pools.

3.4 LITERATURE REVIEW

RBF conducted a review of USGS topographic maps, *Tustin, California Quadrangle*, dated 1965 (photorevised 1981); *aerial photographs*, provided by Eagle Aerial (2006) and Vertical Mapping Resources, Inc. (2007); and the *State of California Hydric Soils List* (1995) prior to visiting the site. Review of relevant literature and materials often help preliminarily identify areas that may fall under an agency's jurisdiction. Examples of relevant information include, USGS blueline streams, ponding, vegetation maps or aerial photographs, and hydric soils as listed within the U.S. Department of Agriculture (USDA) Soil Surveys. A summary of RBF's literature review is provided below (refer to Section 7.0, for a complete list of references used during the course of this delineation):

3.4.1 USGS Topographic Quadrangle

The USGS maps show geological formations and their characteristics, describing the physical setting of an area through contour lines and major surface features including lakes, rivers, streams, buildings, landmarks, and other factors that may fall under an agency's jurisdiction. Additionally, the maps depict topography through color and contour lines, which are helpful in determining elevations and latitude and longitude within a project site.

Map Name	Tustin, California	
Map Year	1965 (photorevised 1981)	
Map Provider	USGS	
Property Elevation (feet)	0.0 to 20.0 feet above msl	
Property Slope Type	Sloping	
Property Slope Direction	Southwest	
Map Contour Interval (feet)	10	

 TABLE 2. Topographic Summary

The project site consists of the San Diego Creek Flood Control Channel (F05), located between Jamboree Road and the I-405. Duck Ponds are noted to the north of the project site and the University of California Irvine is located to the south. Based on the USGS Tustin, California Quadrangle, on-site elevations range from approximately 0.0 feet above msl in the invert of the creek and basins to 20.0 feet above msl for the channel banks and surrounding area.

3.4.2 Aerial Photograph

Prior to the March 14, and April 11, 18, and 19, 2007 field visits, RBF reviewed aerial photographs, provided by Eagle Aerial (2006). Additionally, in order to delineate the most current on-site conditions, RBF requested an ortho aerial photograph to be flown for the project site. The aerial, flown on March 13, 2007 by Vertical Mapping Resources, Inc., illustrates the project site and was flown after the most recent interim maintenance activities. Aerial photographs can be useful during the delineation process, as the photographs often indicate drainages and vegetation (i.e. riparian vegetation) present within the boundaries of the project site (if any).

According to the aerial photograph, the project site consists of the San Diego Creek Flood Control Channel, located between Jamboree Road and the I-405. Open water is noted on-site within San Diego Creek Flood Control Channel. Significant riparian vegetation is visible along the banks of the channel within Basin 1. Basins 2 and 3 appear to be maintained, noted by the lack of vegetation along the western bank and the 40-foot riparian buffer along the eastern bank. Surrounding uses appear to consist of the San Joaquin Marsh Wildlife Sanctuary, William R. Mason Regional Park, Rancho San Joaquin Golf Course, industrial, residential, commercial, and the University of California, Irvine.

3.4.3 Soil Survey

On-site soils were researched prior to the March 14, and April 11, 18, and 19, 2007 field visits. The presence of hydric soils is initially investigated by comparing the mapped soil series for the site to the County list of hydric soils. Soil surveys furnish soil maps and interpretations originally needed in giving technical assistance to farmers and ranchers; in guiding other decisions about soil selection, use, and management; and in planning, research, and disseminating the results of the research. In addition, soil surveys are now heavily utilized in order to obtain soil information with respect to potential wetland environments and jurisdictional areas (i.e., soil characteristics, drainage, and color).

According to the *Orange County and Western Part of Riverside County, California* Soil Survey, dated 1978, the project site is situated on the Chino-Omni and Myford associations. The Chino-Omni association consists of nearly level, somewhat poorly drained and poorly drained, calcareous silt loams to clays on alluvial fans and flood plains and in basins. The Myford association consists of moderately well drained soils on marine terraces. Seven (7) soil series (with multiple phases) are reported within the boundaries of the project site, and consist of the following:

Balcom clay loam, 9 to 15 percent slopes (111): This strongly sloping soil generally occurs on hill ridgetops and some concave side slopes. The profile is similar to the one described as typical of the series, but it is 2 to 6 inches thicker. The Balcom series consists of well drained soils that have formed in material weathered from soft fine grained sandstones, calcareous soft shale, and marl. In a typical profile, the upper 30 inches is dark grayish-brown (10YR 4/2) moist light clay loam, violently effervescent. The soil is moderately alkaline and calcareous throughout, and is moderately slowly permeable. The depth to the high water table is greater than 6.0 feet. Available water capacity is 4 to 6 inches. If the soil is bare, runoff is medium and the erosion hazard is high. This soil used for urban development, dryland barley, and dryland pasture.

Balcom clay loam, 15 to 30 percent slopes (112): This moderately steep soil generally occurs on hill ridgetops. The profile is similar to the one described as typical of the series, but it is 2 to 6 inches thicker. The Balcom series consists of well drained soils that have formed in material weathered from soft fine grained sandstones, calcareous soft shale, and marl. In a typical profile, the upper 30 inches

is dark grayish-brown (10YR 4/2) moist light clay loam, violently effervescent. The soil is moderately alkaline and calcareous throughout, and is moderately slowly permeable. The depth to the high water table is greater than 6.0 feet. Available water capacity is 4 to 6 inches. If the soil is bare, runoff is rapid and the erosion hazard is high. This soil used for urban development, dryland barley, and dryland pasture.

Chino silty clay loam (139): This nearly level soil generally occurs on large alluvial fans. The Chino series consists of somewhat poorly drained soils, formed in sedimentary alluvium. The typical surface layer is very dark gray (10YR 3/1) moist silty clay loam, about 24 inches thick. The underlying material is grayish brown silty clay loam mottled with light brownish gray. The depth to the high water table is 3.5 to 5.0 feet. Permeability is moderately slow. Runoff is very slow, and the hazard for erosion is none to slight. This soil is used for row crops, field crops, and urban development.

Corralitos loamy sand, moderately fine substratum (147): This nearly level to gently sloping soil generally occurs as long narrow areas along stream channels. The profile is similar to the one described as typical for the series, but there is a silt loam or silty clay loam layer 2 to 6 inches thick at a depth of 36 to 60 inches. The Corralitos series consists of somewhat excessively drained soils, formed in mixed coarse texture alluvium. The typical surface layer is very dark grayish brown (10YR 3/2) moist loamy sand and loamy fine sand, about 9 inches thick. The underlying material is stratified light brownish gray and light gray loamy coarse sand, sand, and loamy fine sand to a depth of 60 inches or more. The depth to the high water table is 3.0 to 5.0 feet. Permeability is rapid in the upper 40 inches. An intermittent water table is perched just above the finer textured stratum if rainfall is above normal or if the soils are overirrigated. Runoff is very slow, and the hazard for erosion is slight. This soil is used for irrigated row crops, citrus, pasture, and range.

Myford sandy loam, 2 to 9 percent slopes (173): This gently sloping to moderately sloping soil generally occurs on broad terraces. The profile is described as typical for the series. The Myford series consists of moderately well drained soils, formed in sandy sediments. The typical surface layer is brown (7.5YR 4/2) moist, medium acid sandy loam, about 8 inches thick. The upper 6 inches of the subsoil is brown (7.5YR 4/2), medium acid sandy clay; the next 17 inches is dark brown sandy (7.5YR 3/2) clay loam. The depth to the high water table is greater than 6.0 feet. Permeability is very slow. Runoff is medium, and the hazard for erosion is moderate. This soil is used for range, pasture, and urban development.

Myford sandy loam, 15 to 30 percent slopes (176): This moderately steep soil generally occurs on side slopes of terraces. The Myford series consists of moderately well drained soils, formed in sandy sediments. The typical surface layer is brown (7.5YR 4/2) moist, medium acid sandy loam, about 8 inches thick. The upper 6 inches of the subsoil is brown (7.5YR 4/2), medium acid sandy clay; the next 17 inches is dark brown sandy (7.5YR 3/2) clay loam. The depth to the high water table is greater than 6.0 feet. Permeability is very slow. Runoff is rapid, and the hazard for erosion is high. This soil is used for range, barley, and urban development.

Myford sandy loam, 9 to 30 percent slopes, eroded (177): This strongly sloping to moderately steep soil generally occurs on side slopes of terraces. The profile is described as typical for the series, but is very shallow because of erosion. The Myford series consists of moderately well drained soils, formed in sandy sediments. The typical surface layer is brown (7.5YR 4/2) moist, medium acid sandy loam, about 8 inches thick. The upper 6 inches of the subsoil is brown (7.5YR 4/2), medium acid sandy clay; the next 17 inches is dark brown sandy (7.5YR 3/2) clay loam. The depth to the high water table is greater than 6.0 feet. Permeability is very slow. Runoff is rapid, and the hazard for erosion is high. This soil is used for range, watershed, wildlife, and urban development.

Omni clay, drained (184): This nearly level soil generally occurs in basins. It has a profile described as typical of the series. The Omni series are poorly drained soils, formed in mixed alluvium. The surface layer is typically very dark gray (10YR 3/1) moist clay, about 17 inches thick. The subsoil is light gray clay with prominent olive brown mottles, about 33 inches thick. The depth to the high water table is 3.5 to 6.0 feet. Permeability is slow. Available water capacity is 8.5 to 12.0 inches. Runoff is very slow, and the hazard for erosion is slight. This soil is used for row crops, field crops, and urban development.

Thapto-Histic Fluvaquents (210): This nearly level soil generally occurs in basins. Slopes are less than 2 percent. Thapto-Histic Fluvaquents are poorly drained soils, formed in mixed mineral alluvium and organic deposits. In a typical profile, the surface layer is black (2.5Y 2/0) moist clay loam about 9 inches thick, and 12 inches of black (2.5Y 2/0) silty clay. The underlying layers are 35 inches of black peat, and 12 inches or more of light gray silty clay loam with many fine distinct light yellowish brown mottles. The depth to the high water table is 2.0 to 3.5 feet. Available water capacity is 6.0 to 10.0 inches. Permeability is slow in this soil. If the soil is bare, runoff is slow and the hazard of erosion is slight. This soil is used for row crops and field crops.

Tidal Flats (211): Tidal flats are nearly level areas adjacent to bays and lagoons along the coast. Periodically they are covered by tidal overflows. Some of the higher areas are covered only during very high tides. Tidal flats are stratified clayey to sandy deposits. They are poorly drained and high in salts. Runoff generally ponds, and deposition from surrounding areas is a hazard. This soil is used mainly for recreation and wildlife habitat. Some areas have been dredged or filled and converted to beaches for urban use.

Based on the Soil Survey, the soil series present on-site may have the potential to have hydric soil characteristics (refer to Section 4, *Site Conditions*, for a discussion of on-site soils).

3.4.4 Hydric Soils List of California

RBF reviewed the Hydric Soils List of California, provided by the NRCS, dated December 15, 1995 in an effort to verify whether or not on-site soils are considered to be hydric. Lists of hydric soils along with soil survey maps are good off-site ancillary tools to assist in wetland determinations, but as expected, they are not a substitute for on-site investigations. According to list, none of the above-mentioned soil series are listed as hydric.

3.4.5 Local Climate

The local climate is typical of a mild Mediterranean climate. Winters are cool and moist with average temperatures between the mid 40's and mid 50's. Summers are mild, warm, and dry with average temperatures between the mid 60's and mid 70's. Light fog or clouds, or both, are common along the coast late in spring and early in summer, but rarely remain during the entire day. Some fog generally occurs every month of the year. Maximum summer temperatures seldom exceed 80° F, and nights are generally cool throughout the year. Winter temperatures seldom drop below freezing. Average annual rainfall for the region is approximately 1 inch and nearly all falls in the winter months. For the purposes of this delineation, the growing season is considered to be 365 days a year. Table 3, below, identifies additional on-site physical setting characteristics.

3.4.6 Flood Zone

According to the existing FEMA flood maps, the project site is located within the 100-year flood zone (Zone A and AE). The proposed project site contains San Diego Creek, which is tributary to the Newport Bay and Pacific Ocean.

3.4.7 Coastal Zone

A portion of the project site, downstream of Campus Drive, is located within the Coastal Zone.

Is the Project Site	Yes	No	Unknown
Within a 100-year floodplain?	Х		
A blue line stream?	Х		
Within the California Coastal Zone?	Х		
Reported groundwater level <6 feet bgs?	Х		

TABLE 3. Project Site Summary

3.4.8 Baseline Literature

According to the Draft Report for Results of the Biological Reconnaissance Survey for San Diego Creek Watershed Special Area Management Plan (Chambers Group, Inc., 2004), vegetation communities located within the project site include mulefat scrub, southern willow scrub, willow riparian forest, cattail series, ruderal, disturbed/developed areas, and open water.

<u>Mulefat Scrub</u>: The mulefat scrub community included mulefat, arroyo willow, mugwort, western sycamore, and Mexican elderberry.

<u>Southern Willow Scrub</u>: The southern willow scrub community included arroyo willow and narrow-leaved willow, and smaller amounts of mulefat and black willow, and can also include an understory of mugwort, curly dock, nettle, and western ragweed.

<u>Willow Riparian Forest</u>: The willow riparian forest consists of arroyo willow, black willow, sycamore, cottonwood, ash, tree of heaven, Peruvian pepper tree, mulefat, mugwort, poison hemlock, giant reed, and tamarisk.

<u>Cattail Series</u>: The cattail series is dominated by cattail and also included bulrush, veronica, and smartweed.

<u>Ruderal</u>: Ruderal areas occurred continuously along the north and northwestern side of the channel. Species observed included castor bean, Russian thistle, white sweetclover, fennel, tamarisk, Peruvian pepper tree, giant reed, and tree tobacco. Additionally, a sparse cover or mulefat, mugwort, western ragweed, and watercress were observed.

<u>Disturbed/Developed</u>: Disturbed areas either lack vegetation or are dominated by ruderal vegetation, and developed areas include roads, parks, ornamental landscaping, and clear and graded sites. At the time of this report, these areas occurred mostly along the south and southeastern side of the channel.

Section 4 Site Conditions

As described in Section 1.0, the proposed project is located in the Cities of Newport Beach and Irvine, County of Orange, California. Refer to Sections 4.1 through 4.3, below, for a discussion with respect to the three (3) wetland parameters or evidence of water flow defined in Section 3.0. Refer to Exhibits 4A through 4C, *On-Site Photographs*, for representative photographs taken throughout each basin. Additionally, refer to Exhibit 5, *Jurisdictional Map*, for specific locations of photographs and soil pits.

4.1 BASIN 1 (INCLUDING LOWER CHANNEL)

4.1.1 Vegetation

Due to the lack of maintenance, significant riparian vegetation was noted on-site within Basin 1, surrounding San Diego Creek, during the March 14, and April 11, 18, and 19, 2007 field visits. Riparian vegetation noted on-site included arroyo willow (*Salix lasiolepis*), black willow (*Salix gooddingii*), mulefat (*Baccharis salicifolia*), mugwart (*Artemisia douglasiana*), broadleaf cattail (*Typha latifolia*), bulrush (*Scirpus ssp.*), brassbuttons (*Cotula coronopifolia*), and pickleweed (*Salicornia virginica*).

4.1.2 Hydrology

The San Diego Creek Flood Control Channel is a Relatively Permanent Water (RPW) and is tributary to Newport Back Bay, a Traditional Navigable Water (TNW). Water flow ranging in depth, was noted within the Basin 1 during the field visits. Portions of the water within Basin 1 and the lower channel are tidally influenced. The on-site drainage flows in a northeast/southwest direction, and is tributary to the Newport Bay and Pacific Ocean. Evidence of hydrology was noted within the drainage via flowing water, high water table, saturation, drift deposits, salt crust, aquatic invertibrates, and erosional cuts.

4.1.3 Soils

Approximately nineteen (19) soil pits were dug within Basin 1 during the field visits due to the presence of riparian vegetation. All three wetland parameters, as described in Section 3.0, were met within portions of Basin 1. On-site soils within Basin 1 consisted of clay, silt, silt loam, clay silt loam, silty clay loam, sandy loam, and sand. The soils within the boundary of the project site were found to be consistent with those previously mentioned during the literature review in Section 3.4. Multiple hydric soil indicators (e.g., hydrogen sulfide, sandy redox, and redox dark surface) were noted within the soil samples within portions of Basin 1 (refer to Appendix A, *Wetland Data Sheets*).

Exhibit 4A

1/4/08 JN 10-103795-1393

On-Site Photographs - Basin

SAN DIEGO CREEK CHANNEL (F05) POST-INTERIM MAINTENANCE • JURISDICTIONAL DELINEATION









View of 40-foot vegetated buffer.

View looking at on-site channel and Jamboree Road bridge.



CONSULTIN

Exhibit 4B

On-Site Photographs - Basin 2

SAN DIEGO CREEK CHANNEL (F05) POST-INTERIM MAINTENANCE • JURISDICTIONAL DELINEATION

View of on-site hydrophytic vegetation.

Hydraulic soils within Basin 2.



View of water flow on-site.









On-Site Photographs - Basin 3

SAN DIEGO CREEK CHANNEL (F05) POST-INTERIM MAINTENANCE • JURISDICTIONAL DELINEATION

On-site wetland located south of I-405.

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1/4/08 JN 10-103795-13931

CONSULTING





On-site wetland near the MacArthur Boulevard bridge.







4.2 BASIN 2

4.2.1 Vegetation

Riparian vegetation was noted within Basin 2 during the March 14, and April 11, 18, and 19, 2007 field visits. Riparian vegetation noted on-site included arroyo willow, black willow, (narrow-leaved willow), mulefat, mugwart, broadleaf cattail, bulrush, and brassbuttons. The majority of the vegetation appeared to be situated within the 40-foot riparian buffer area. Vegetation was limited within the western portion of the channel and side slope due to past maintenance activities.

4.2.2 Hydrology

Water flow ranging in depth, was noted within Basin 2 during the field visits. Evidence of hydrology was noted within the drainage via flowing water, high water table, drift deposits, and erosional cuts.

4.2.3 Soils

Due to the presence of riparian vegetation, approximately two (2) soil pits were dug within Basin 2 during the field visits. Portions of Basin 2 contained all three wetland parameters. On-site soils within Basin 2 consisted of silty clay, silty clay loam, and sand. Hydric soil indicators (e.g., sandy redox and redox dark surface) were noted within the soil samples within portions of Basin 2.

4.3 BASIN 3 (INCLUDING UPPER CHANNEL)

4.3.1 Vegetation

Similar to Basin 2, due to past maintenance activities, the majority of the vegetation was located within the 40-foot riparian buffer area and vegetation was limited within the western portion of the channel and side slope. Riparian vegetation noted within Basin 3, during the March 14, and April 11, 18, and 19, 2007 field visits, included arroyo willow, black willow, mulefat, broadleaf cattail, bulrush, and brassbuttons.

4.3.2 Hydrology

Water flow within Basin 3, ranging in depth, was noted during the field visits. Evidence of hydrology was noted within the drainage via flowing water, high water table, saturation, drift deposits, and erosional cuts.

4.3.3 Soils

Approximately seven (7) soil pits were dug within Basin 3 during the field visits. All three wetland parameters were met within portions of Basin 3. Soils within Basin 3 consisted of silt loam, silty clay loam, loam, sandy loam, and sand. A layer of muck was noted within one soil pit. Multiple hydric soil indicators (e.g., hydrogen sulfide and hystic epipedon) were noted within the soil samples within portions of Basin 3.

Section 5 Findings

This delineation was prepared for the RDMD in order to delineate the ACOE, RWQCB, CDFG, and CCC jurisdictional authority for drainages located within the project site. This report presents RBF's best effort at determining the jurisdictional boundaries using the most up-to-date regulations, written policy, and guidance from the regulatory agencies. However, as with any jurisdictional delineation, only the regulatory agencies can make a final determination of jurisdictional boundaries within a project site/property. Jurisdictional boundaries are broken down specifically by agency and are described below.

5.1 U.S. ARMY CORPS OF ENGINEERS DETERMINATION

5.1.1 Wetland Determination

As previously noted in Section 2.1, an area must exhibit all three (3) of the wetland parameters described in the ACOE Interim Regional Supplement to be considered a jurisdictional wetland. Based on the results of the field investigations, it was determined that portions of the project site contained all three parameters. Based on the literature review and soil samples obtained during the field visit, hydric soils are present within portions of the project site and hydrophytic vegetation was noted surrounding the creek. Based on the site conditions, approximately 8.86-acres of ACOE jurisdictional wetlands are located within the boundaries of the project site (refer to Exhibits 5A-5G, *Jurisdictional Maps*). Approximately 8.72-acres are anticipated to be permanently impacted by the proposed long-term maintenance; however, emerging vegetation should be allowed to grow in between maintenance episodes as identified within the O&M Manual (refer to Table 4, *ACOE Jurisdictional Impact Acreage Summary*). Approximately 0.14-acre of Crops wetlands will be preserved on-site within the mandatory and voluntary 40-foot wide buffer.

5.1.2 "Waters of the U.S." (Non-Wetland) Determination

Evidence of hydrology was noted within the project site and consisted of flowing water, salt crust, erosional features, and debris lines. The on-site drainage is perennial, containing water year-round. A total of approximately 65.51-acres of ACOE "waters of the U.S." are located within the boundaries of the project site. Approximately 53.40-acres are anticipated to be permanently impacted by the proposed long-term maintenance. Approximately 12.11-acres of Crops water of the U.S. will be preserved on-site within the mandatory and voluntary 40-foot wide buffer.

5.2 REGIONAL WATER QUALITY CONTROL BOARD DETERMINATION

No isolated conditions were observed within the boundaries of the project site; therefore, the RWQCB follows that of ACOE jurisdiction.

5.3 CALIFORNIA DEPARTMENT OF FISH AND GAME DETERMINATION

The on-site streambed is considered jurisdictional by the CDFG. The CDFG jurisdiction is similar to the ACOE jurisdiction, but also encompasses portions of the channel's slopes as well as associated riparian vegetation (to the outer dripline) when present. Approximately 96.15-acres of CDFG jurisdiction are located within the boundaries of the project site. Approximately 83.88-acres are anticipated to be permanently impacted by the proposed long-term maintenance (refer to Table 5, *CDFG Jurisdictional Impact Acreage Summary*). Approximately 12.27-acres of CDFG jurisdiction will be preserved on-site within the mandatory and voluntary 40-foot wide buffer.

5.4 CALIFORNIA COASTAL COMMISSION DETERMINATION

A portion of the project site (Reach I), between Jamboree Road and slightly downstream of Campus Drive, is located within the coastal zone. The open water within San Diego Creek drainage is considered a streambed within the Coastal Zone. Additionally, areas with riparian vegetation and/or hydric soils are considered coastal wetlands. A total of approximately 31.23-acres of CCC jurisdiction are located within the boundaries of the project site; approximately 13.18-acres are coastal wetlands. Approximately 26.89-acres of CCC jurisdiction are anticipated to be permanently impacted by the proposed long-term maintenance activities (refer to Table 6, *CCC Jurisdictional Impact Acreage Summary*). Approximately 4.33-acres of CCC jurisdiction will be preserved on-site within the mandatory and voluntary 40-foot wide buffer.

Vegetation Type	Impact Acreage		
vegetation Type	Wetland	Non-Wetland	
Coastal Sage Scrub	0.00	0.22	
Developed	0.00	0.57	
Disturbed	1.69	11.04	
Freshwater Marsh	1.16	0.00	
Mulefat Scrub	0.37	1.64	
Open Water	1.50	33.73	
Rip-Rap	0.00	0.29	
Ruderal	0.14	0.59	
Ruderal/Mulefat Scrub	0.49	0.19	
Saltwater Marsh	1.03	0.00	
Willow Scrub	2.06	4.99	
Willow Scrub/Mulefat Scrub	0.28	0.14	
Total	8.72	53.40	

Table 4. ACOE Jurisdictional Impact Acreage Summary

Table 5. CDFG Jurisdictional Impact Acreage Summary

Vegetation Type	Impact Acreage
Coastal Sage Scrub	1.53
Developed	0.63
Disturbed	19.89
Freshwater Marsh	2.11
Mulefat Scrub	7.94
Open Water	35.32
Ornamental	0.04
Rip-Rap	0.37
Ruderal	3.60
Ruderal/Coastal Sage Scrub	0.04
Ruderal/Mulefat Scrub	0.69
Saltwater Marsh	0.19
Willow Scrub	10.94
Willow Scrub/Mulefat Scrub	0.59
Total	83.88

Vegetation Type	Impact Acreage		
vegetation type	Wetland	Non-Wetland	
Coastal Sage Scrub	0.08	1.44	
Disturbed	0.26	0.58	
Freshwater Marsh	0.54	0.00	
Mulefat Scrub	4.94	1.17	
Open Water	0.59	11.34	
Ornamental	0.00	0.04	
Rip-Rap	0.00	0.22	
Ruderal	0.10	1.83	
Ruderal/Coastal Sage Scrub	0.00	0.04	
Ruderal/Mulefat Scrub	0.29	0.13	
Saltwater Marsh	0.19	0.00	
Willow Scrub	2.39	0.49	
Willow Scrub/Mulefat Scrub	0.02	0.20	
Total	9.41	17.48	

TABLE 6. CCC Jurisdictional Impact Acreage Summary















Section 6 Regulatory Approval Process

The following is a summary of the various permits, agreements, and certifications required before construction activities take place within the above-mentioned jurisdictional areas.

6.1 U.S. ARMY CORPS OF ENGINEERS

The ACOE regulates discharges of dredged fill materials into "waters of the United States" and wetlands pursuant to Section 404 of the Clean Water Act (CWA). A permit will be required from the ACOE Regulatory Branch-Los Angeles District Office should maintenance activities within the San Diego Creek Flood Control Channel result in the discharge of material within the ACOE's jurisdiction.

6.1.1 Section 404 Permit Identification

Based on the current conditions of the San Diego Creek Flood Control Channel and the nature of the activities (long-term maintenance), it is anticipated that the proposed project can be authorized through an Individual Permit (IP).

6.1.2 Section 10 Permit Identification

Due to the fact that a portion of Basin 1 and the lower channel consists of tidally influenced waters, a Section 10 permit would be required pursuant to the Rivers and Harbors Act. The approval would be processed concurrently with the Section 404 notification.

6.1.3 Coastal Zone Management Consistency

Since a portion of the San Diego Creek Flood Control Channel is located within the Coastal Zone, the ACOE shall obtain from the applicant a certification that the proposed activity complies with and will be conducted in a manner that is consistent with the approved state Coastal Zone Management Plan (CZMP). Upon receipt of the certification, the ACOE will forward a copy of the public notice (which will include the applicant's certification statement) to the CCC and request its concurrence or objection. If the CCC objects to the certification or issues a decision indicating that the proposed activity requires further review, the ACOE shall not issue the permit until the CCC concurs with the certification statement. If the CCC fails to concur or object to a certification statement within six (6) months of the CCC's receipt of the certification statement, CCC concurrence with the certification statement shall be conclusively presumed. District engineers will seek agreements with the CCC that the agency's failure to provide comments during the public notice comment period

will be considered as a concurrence with the certification or waiver of the right to concur or non-concur.

6.2 REGIONAL WATER QUALITY CONTROL BOARD

For an ACOE 404 permit to be approved, a 401 Water Quality Certification from the Santa Ana RWQCB will be required. The RWQCB also requires that CEQA compliance be obtained prior to obtaining the 401 Certification.

Once an application has been deemed complete, the RWQCB has between 60 days and 1 year in which to make a decision. According to regulations of the ACOE, the State has 60 days from the date of receipt of a valid request for water quality standards certification (33 CFR Section 325.2 (b) (1) (ii)). The ACOE district engineer may specify a longer (up to one year) or shorter time, if he or she determines that a longer or shorter time is reasonable (33 CFR Section 325.2 (b) (1) (ii)). If processing and review of the 401 application will take more than 60 days, the RWQCB will request additional time from the ACOE. Please note that even when an application has been deemed complete, the RWQCB has the option of denial without prejudice. This is not a reflection on the project, but a means to stop the clock until the required information has been received.

As required by 23 California Code of Regulations (CCR) § 3858 (a), the RWQCB is required to have a minimum 21-day public comment period before any action is taken on a 401 application. The period closes when the RWQCB acts on the 401 application. The public comment period does not close after a certain number of days because proposed projects tend to change through the 401 process and the public is allowed to review and comment on the changed project. The public comment period starts as soon as an application has been received. Additionally, the RWQCB requires that water quality concerns related to urban storm water runoff be addressed. Any 401 Certification application submitted to the RWQCB should incorporate the use of Best Management Practices (BMPs) for the treatment of pollutants carried by storm water runoff in order to be considered a complete application. The RWQCB also requires a 401 Certification Application Fee, which is dependent on the amount and type of impacts.

6.3 CALIFORNIA DEPARTMENT OF FISH AND GAME

The project site would be considered jurisdictional by the CDFG; a 1602 Streambed Alteration Agreement (SAA) must be obtained prior to any jurisdictional impact. Upon a formal notification, the CDFG will determine whether the notification package (application) is complete. The CDFG will make this determination within 30 calendar days of receiving

the notification package if the application is for a regular agreement (i.e., an agreement for a term of five years or less). However, the 30-day time period does not apply to notifications for long-term agreements (i.e., agreements for a term greater than five years). Once the notification package is deemed complete, the CDFG will process a Draft Agreement as described below.

If a SAA is required, the CDFG may require an onsite inspection, and a draft agreement. The draft agreement will include measures to protect fish and wildlife resources while conducting the project. For regular agreements, the CDFG will submit a draft agreement to the applicant within sixty (60) calendar days after the notification is deemed complete. Again, the 60-day time period does not apply to notifications for long-term agreements, since these are often large or complex projects.

The applicant then has 30 calendar days to notify the CDFG whether the measures in the draft agreement are acceptable. After the CDFG receives the signed draft agreement, it will make it final by signing it. The CDFG Application fee associated with the notification package varies and is dependent upon the total cost of the project and type of Agreement (i.e., Regular or Long-Term).

6.4 CALIFORNIA COASTAL COMMISSION

Since a portion of the San Diego Creek Flood Control Channel is located within the Coastal Zone, a CDP is required from the CCC prior to approval of the maintenance activities. The purpose of the CDP is to ensure consistency with the Local Coastal Program. Issuance of a CDP requires compliance with Chapter 3 of the Coastal Act, Coastal Resources Planning and Management Policies, which outlines the policies/standards by which the permissibility of proposed development are determined.

6.5 GLOBAL RECOMMENDATIONS

6.5.1 Agency Concurrence and Pre-Application Field Meeting

It is highly recommended that the delineation be forwarded to each of the regulatory agencies for their concurrence. Once the delineation is approved, RBF has found it extremely beneficial and pro-active to have an on-site meeting with the ACOE, RWQCB, CDFG, and CCC to discuss potential permitting strategies. In short, these Pre-Application Field Meetings often help streamline the permitting process.
6.5.2 Concurrent Permit Processing

Prior to issuance of the ACOE permit, a Section 401 Water Quality Certification from the Santa Ana RWQCB and a CDP from the CCC must be obtained. Obtaining the Certification and CDP can result in substantial delays in issuing an ACOE permit. To avoid unreasonable delays in ACOE permit processing, the following actions are recommended. In cases where the ACOE has finished its evaluation of a permit proposal and the only action remaining is the issuance of the Section 401 Certification and CDP, the ACOE should send a provisional permit to the applicant. Sending a provisional permit completes the ACOE action on the proposal and notifies the applicant of the need to obtain a Section 401 Certification and a CDP from the appropriate State certifying agency before the Section 404 permit is valid. The provisional permit also places the only remaining action with the certifying agencies, properly focusing the applicant on the State.

Section 7 References

The following references were utilized during preparation of this Delineation of State and Federal Jurisdictional Waters:

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Draft Biological Assessment, Chambers Group, Inc., June 2005.

Draft Operations and Maintenance Manual, RBF Consulting, November 10, 2004.

Draft Report for Results of the Biological Reconnaissance Survey for San Diego Creek Watershed Special Area Management Plan, Chambers Group, Inc., April 2004.

Final Jurisdictional Delineation, Chambers Group, Inc., November 2004.

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Munsell Soil Color Charts, 1994.

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Ortho Aerial Photograph, Project No. 07-776, Scale 1:8040, provided by Vertical Mapping Resources, Inc., flown on March 13, 2007.

Site Visits conducted on March 14, and April 11, 18, and 19, 2007.

Thomas Brothers Map, Los Angeles and Orange Counties, 2006.

U.S. Army Corps of Engineers, Los Angeles District Regulatory Program, http://www.spl.usace.army.mil/

U.S. Army Corps of Engineers, Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region, 2006.

U.S. Army Corps of Engineers, Wetland Delineation Manual, 1987.

United States Department of Agriculture, Soil Survey, Orange County and Western Part of Riverside County, California, 1978.

U.S. Fish and Wildlife Service, http://endangered.fws.gov/consultations/index.html.

U.S. Fish and Wildlife Service, National List of Vascular Plant Species that Occur in Wetlands, 1988.

USGS Topographic Quadrangle, Tustin, CA, 1965 (photorevised 1981).

APPENDIX

A) WETLAND DATA FORMS

Project/site: San Digio Creek Post-	Interim city/cc	ounty: Oral	Me County Sampling Date: 3/14/07
Applicant/Owner: COUVHU. OF OVAME	ROMD		State: <u>CA</u> Sampling Point:
		n. Township, R	ange: Section 60, T.65, R.9W, SBBM
Landform (hillslope, terrace, etc.); FOOTS1006	Locali	relief (concave	, convex, none): <u>CONCALLE</u> Slope (%):
Soil Map Unit Name: OMNI Clay, dvi	. 1		Datum NPD 82
Are climatic / hydrologic conditions on the site typics			
		,	"Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology			
			locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No		
	No X	s the Sample	
Wetland Hydrology Present? Yes	No	within a Wetla	nd? YesNo
Remarks:		**************************************	
			×.
VEGETATION			
		ant indicator	Dominance Test worksheet:
Tree Stratum (Use scientific names.) 1. Salix 12510/epis	<u>% Cover</u> Specie		Number of Dominant Species
1. Same rusionapis		_ FACW	That Are OBL, FACW, or FAC: (A)
3			Total Number of Dominant
4.			Species Across All Strata: (B)
Tota	Cover: 10		Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
Sapling/Shrub Stratum		~ A A 1. 1	
1. Salix lasiolepis		- FACW	Prevalence Index worksheet:
2. Baccharis salicifolia	<u> </u>	- film	Total % Cover of:Multiply by: OBL species x 1 =
A		anange franksikilikilikuseng	FACW species x 2 =
5.	<u></u>		FAC species x 2 =
Total	Cover: 55		FACU species x 4 =
Herb Stratum			UPL species x 5 =
1 Brassica higha	15	- NL	Column Totals: (A) (B)
2. 15000ma menziisii var Varonii	$\frac{100520}{}$	_ 7AC+	Prevalence Index = B/A =
4.			Hydrophytic Vegetation Indicators:
4 5			Dominance Test is >50%
6			$\frac{7}{2}$ Prevalence Index is $\leq 3.0^{1}$
7			Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
8			Problematic Hydrophytic Vegetation ¹ (Explain)
Total Woody Vine Stratum	Cover: <u>35</u>		
1			¹ Indicators of hydric soil and wetland hydrology must
2.	······································		be present.
Total	Cover:		Hydrophytic
% Bare Ground in Herb Stratum %			Vegetation Present? Yes No
Remarks;			
Verificities, ·			

Profile Description: (Describe to the day		
Lione rescription. (rescripe to the deb	th needed to document the indicator or	confirm the absence of Indicators.)
Depth <u>Matrix</u>	Redox Features	Domotion
(inches) Color (moist) %	ware to interest in the same survey and the same s	Loc ² Texture Remarks
0-5 10YR 4/3 100		
5-16 7.57 3/2 100		sandy loam
· · ·		
'Type: C=Concentration, D=Depletion, RM=	=Reduced Matrix. ² Location: PL=Pore L	ining, RC=Root Channel, M=Matrix.
Hydric Soll Indicators: (Applicable to all		Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S6) Loamy Mucky Mineral (F1)	2 cm Muck (A10) (LRR B) Reduced Vertic (F18)
Black Histic (A3)		Red Parent Material (TF2)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2) 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)	
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	³ Indicators of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)		wetland hydrology must be present.
Restrictive Layer (if present):		
Туре:		
Depth (inches):		Hydric Soil Present? Yes No
Remarks:		
	L.	
		Secondary Indicators (2 or more required)
Wetland Hydrology Indicators:	,	<u>Secondary Indicators (2 or more required)</u> Water Marks (B1) (Riverine)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is suffic	cient)	
Wetland Hydrology Indicators: Primary Indicators (any one Indicator is suffic Surface Water (A1)	cient) Salt Crust (B11)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Wetland Hydrology Indicators: <u>Primary Indicators (any one Indicator is suffic</u> <u>Surface Water (A1)</u> <u>High Water Table (A2)</u>	cient) Salt Crust (B11) Biotic Crust (B12)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Wetland Hydrology Indicators: <u>Primary Indicators (any one Indicator is suffic</u> <u>Surface Water (A1)</u> <u>High Water Table (A2)</u> <u>Saturation (A3)</u>	cient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Wetland Hydrology Indicators: <u>Primary Indicators (any one Indicator is suffic</u> <u>Surface Water (A1)</u> <u>High Water Table (A2)</u> <u>Saturation (A3)</u> <u>Water Marks (B1) (NonriverIne)</u>	cient) 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)
Wetland Hydrology Indicators: Primary Indicators (any one Indicator is suffic Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	cient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livit	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ng Roots (C3) Thin Muck Surface (C7)
Wetland Hydrology Indicators: Primary Indicators (any one Indicator Is suffice	cient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livit Presence of Reduced iron (C4)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drianage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8)
Wetland Hydrology Indicators: Primary Indicators (any one Indicator Is suffice	cient) 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 Plowed	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ng Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) Soils (C6)
Wetland Hydrology Indicators: Primary Indicators (any one Indicator is suffice	cient) 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 Plowed	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) Soils (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (any one Indicator is suffice 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)	cient) 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 Plowed	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ng Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) Soils (C6)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is suffic 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:	cient) 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 Plowed ') Other (Explain in Remarks)	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) Soils (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (any one Indicator Is suffic	cient) 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 Plowed ') Other (Explain in Remarks) No Depth (inches):	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) Soils (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (any one Indicator Is suffic	cient)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ng Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is suffic	cient)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ng Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes X No
Wetland Hydrology Indicators: Primary Indicators (any one Indicator Is suffic	cient)	Water Marks (B1) (Riverine) 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) Soils (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes X No
Wetland Hydrology Indicators: Primary Indicators (any one indicator is suffic	cient)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ng Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes X No
Primary Indicators (any one indicator is suffice	cient)	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) Soils (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes X No
Wetland Hydrology Indicators: Primary Indicators (any one indicator is suffice	cient)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ng Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes X No
Wetland Hydrology Indicators: Primary Indicators (any one Indicator Is suffice	cient)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ng Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes X No
Wetland Hydrology Indicators: Primary Indicators (any one indicator is suffice	cient)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ng Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes X No
Wetland Hydrology Indicators: Primary Indicators (any one Indicator Is suffic	cient)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ng Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes X No

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Project/site: San Dino Creek Post - Int	erim	City/County	y: Oray	Me County sampling Date: 3/14/07
Applicant/Owner: COUNTU OF OVAME RDN	nd			State: <u>CA</u> Sampling Point: 2
Investigator(s): R. BPCK, L. SPE, W. Salt	PV	Section To	ownship R	ange: Section 60, T.65, P.9W, SBBM
Landform (hillslope, terrace, etc.): <u>footslope</u>				
				· · · · · · · · · · · · · · · · · · ·
	1			Long: <u>33.673505</u> Datum: <u>NAD 83</u>
Soil Map Unit Name: Orni Clay, arair	-			
Are climatic / hydrologic conditions on the site typical for thi				
Are Vegetation, Soil, or Hydrologys			Are	"Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology r	naturally pro	oblematic?	(lf n	needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing	ı samplin	g point	locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X N	٥		a Comula	d A
Hydric Soil Present? Yes N	• <u>X</u>		ie Sample in a Wetla	V
Wetland Hydrology Present? Yes X N	۰	with		
Remarks:			2172-117-2-12 ¹ 1-12-20-2-1	
VEGETATION				· · ·
· · · · · · · · · · · · · · · · · · ·	Absolute			Dominance Test worksheet:
Tree Stratum (Use scientific names.)	% 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)
4Total Cover:		``		Percent of Dominant Species That Are OBL_FACW, or FAC: 75 (A/B)
Sapling/Shrub Stratum	·	. ,		That Are OBL, FACW, or FAC: (A/B)
1. Sally lasiolepis	25	<u> </u>	FACW	Prevalence Index worksheet:
2. Baccharis salicifolia	35	<u> </u>	FACW	Total % Cover of: Multiply by:
3				OBL species x 1 =
4	, 			FACW species x 2 =
5				FAC species x 3 =
Total Cover:	60			FACU species x 4 =
1. Brassica hiava	20	\checkmark	ATT	UPL species x 5 = (D)
2. soroma menzisii V. Veronioides	20	$\overline{\checkmark}$	FAC+	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
8				data in Remarks or on a separate sheet)
Total Cover:	40			Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum				¹ Indicators of hydric soil and wetland hydrology must
2.				be present.
ZTotal Cover:				Hydrophytic
% Bare Ground in Herb Stratum % Cover of				Vegetation Present? Yes X No
Remarks:				
Romanika.				

Arid West - Version 11-1-2006

SOIL	Sampling Point:
Profile Description: (Describe to the depth needed to document the indicator or cor	nfirm the absence of Indicators.)
Depth Matrix Redox Features	
(inches) Color (moist) % Color (moist) % Type ¹ Loc	A
0-7 10TR412 100	Sand
7-18 WTR4/2 100	loam
	ng, RC=Rox Channel, M=Matrix.
Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Solls 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)	
Sandy Mucky Mineral (S1) Vernal Pools (F9)	³ Indicators of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)	wetland hydrology must be present.
Restrictive Layer (if present):	
Туре:	
Depth (inches):	Hydric Soil Present? Yes No _X
Remarks: Darker chunks of soil randomly through	nout (5× 2.5/1)
Darker chunks of soil randomly through	nout (5r 25/1)
Darker Chunks of soil randomly through	
Darker Chunks of Soil randomly through YDROLOGY Netland Hydrology Indicators:	Secondary Indicators (2 or more required)
Darker Chunks of Soil randomly through YDROLOGY Netland Hydrology Indicators: Primary Indicators (any one Indicator is sufficient)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine)
Darker Chunks of Soil randomly through YDROLOGY Vetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient)	<u>Secondary Indicators (2 or more required)</u> Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Parker Chunks of Soil Fandomly Hhough YDROLOGY Vetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient)	<u>Secondary Indicators (2 or more required)</u> <u>Water Marks (B1) (Rivertne)</u> Sediment Deposits (B2) (Rivertne) Drift Deposits (B3) (Rivertne)
Darker Chunks of Soil Fandomly Hrough YDROLOGY Vetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient)	<u>Secondary Indicators (2 or more required)</u> Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Darker Chunks of Soil Fandomly Hrough YDROLOGY Primary Indicators (any one indicator is sufficient)	<u>Secondary Indicators (2 or more required)</u> Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
Parker Chunks of Soil Fandomly Hough YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) 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 Rhizosphere's along Living	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) Roots (C3) Thin Muck Surface (C7)
Darker Chunks of Soil Fandomly Hough YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient)	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) Rcots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8)
Darker Chunks of Soil Fandomly Hough YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient)	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) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) ils (C6) Saturation Visible on Aerial Imagery (C9)
Darker Chunks of Soil Fandomly Hough YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient)	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) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) ils (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Darker Chunks of Soil Fandomly Hough YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient)	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) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) ils (C6) Saturation Visible on Aerial Imagery (C9)
Darker Chunks of Soil Fandomly Hough YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient)	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) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) ils (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Darker Chunks of Soil randomly Hwydd YDROLOGY Primary Indicators (any one indicator is sufficient) 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 Living Xorface Soil Cracks (B6) Recent Iron Reduction in Plowed Soil Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Water-Stained Leaves (B9) Teld Observations:	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) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) ils (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Darker Chunks of Soil randomly Hwydd YDROLOGY Vetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) 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 X Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soil Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Water-Stained Leaves (B9) Yes No Surface Water Present? Yes No	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) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) ils (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Oarker Chunks of Soil randomly Hwydd YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1)	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) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) ils (C6) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Oarker Chunks of Soil randomly Hwydd YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Drift Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) ills (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Parker Chunks of Soil randomly Hway YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Drift Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) ills (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Drift Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) ills (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Darker Chunks of Soil randomly Hwogh YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Drift Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) ills (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient)	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) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) ills (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Darker Chunks of Soil randomly Hwogh YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Drift Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) ills (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Darker Chunks of Soil randomly Hwogh YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Drift Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) ills (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Darker Chunks of Soil randomly Hrough YDROLOGY Vetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Drift Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) ills (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)

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Project/site: San Digio Creek Pos-	t-Interim city	County: Oral	me County Sampling Date: 3/14/07
Applicant/Owner: OUVITU OF OV AV AC	RUMU		State: <u>CA</u> Sampling Point: 3
Investigator(s): K. BPCE, L. SPE, U	J. Salter Sect	ion, Township, R	ange: Section 60, T.65, P.9W, SBBM
Landform (hillslope, terrace, etc.): TOES 10	pe Loci	al relief (concave	, convex, none): <u>CONCAVE</u> Slope (%):
Subregion (LRR); LRR C	Lat: _//].	835886	Long: 33, 673530 Datum: NAD 83
Soil Map Unit Name: OMNI CLUU	drained		NWI classification: R2USC X
Are climatic / hydrologic conditions on the site typ			
		•	
			"Normal Circumstances" present? Yes X. No
Are Vegetation, Soil, or Hydrolog	y naturally problem	natic? (If n	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach s	ite map showing sar	npling point	locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	X No		
Hydric Soil Present? Yes		Is the Sample	
	X No	within a Wetla	nd? Yes <u>No</u>
Remarks:		I	
VEGETATION			
Tree Stratum (Use scientific names.)		ninant Indicator	Dominance Test worksheet:
1. Sally lasiotenis	<u>% Cover</u> Spe 40 V	FACW	Number of Dominant Species
2.	<u> </u>	IAW	That Are OBL, FACW, or FAC: (A)
			Total Number of Dominant
a.			Species Across All Strata: (B)
4	40		Percent of Dominant Species
Sapling/Shrub Stratum	otal Cover: <u>40</u>		That Are OBL, FACW, or FAC: 100 (A/B)
1. Salix lasiolepis	25 1	EARLA)	Prevalence index worksheet:
2. Baccharis salicifolia	25 1	EA(II)	Total % Cover of: Multiply by:
3	<u></u>	FILW	OBL species x 1 =
4	-		FACW species x 1
5			FAC species x 2 =
τ.	otal Cover: <u>50</u>		FACU species x 4 =
Herb Stratum			UPL species x + =
1. Brassica Migra	10	NI	
2. 0		and the second second second	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
8	·		data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
To Woody Vine Stratum	tal Cover: 10		
			¹ Indicators of hydric soil and wetland hydrology must
1			be present.
۲			Hudronbutte
	tal Cover:		Hydrophytic Vegetation
% Bare Ground in Herb Stratum	% Cover of Biotic Crust		Present? Yes <u>No</u>
Remarks:			
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Color (moist) % Color (moist) % Texture Remarks 0-75 IQYR 4/2 IQO SGWd SGWd SGWd 1-12 IQYR 4/3 IQO SGWd SGWd SGWd 2-20 N 2.5/Ø IQO SGWd SGWd SGWd SGWd 2-20 N 2.5/Ø IQO SGWd SGWd<	Matrix Redox Features iches) Color (moist) % Color (moist) % $2-5$ IOYR 4/3 IOO	Texture Remarks Savd
Color.(moist) % Color.(moist) % Total: Tota: Total: Tota: <th>color (moist) % Color (moist) % Type¹ Loc² 0-5 10YR 4/3 100 </th> <th>Sand Sand</th>	color (moist) % Color (moist) % Type¹ Loc² 0-5 10YR 4/3 100	Sand Sand
2-5 IQYR 4/3 IQO Scund 2-6 IQYR 4/3 IQO Scund 2-12 IQYR 4/3 IQO Scund 2-20 N 2.5/Ø IQO Scill IOX/N 2-20 N 2.5/Ø IQO Indicators for Poblematic Hydro Solis': 4 Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators for Poblematic Hydro Solis': Histosol (A1) Sandy Redwit (S5) 1 cm Muck (A9) (LRR C) Depleted Matrix (S6) 2 cm Muck (A10 (LRR B) Back Histic (A3) Loamy Glayed Matrix (S6) 2 cm Muck (A10 (LRR C) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redx Dark Surface (F8) Secondary Indicators of hydrophytic vegetation and wetland hydrology must be present. Trype:	$\begin{array}{c ccccc} \hline 0 & 7R & 4/3 & 100 \\ \hline 5-6 & 10 & 7R & 4/2 & 100 \\ \hline 5-6 & 10 & 7R & 4/2 & 100 \\ \hline 5-12 & 10 & 7R & 4/3 & 100 \\ \hline 2-20 & N & 2.5/& $	Sand Sand Sand Sand Silt Ioavn C=Root Channel, M=Matrix. Indicators for Problematic Hydric Solls ³ : 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B)
Stand Stand Signed Sound Sound Sound Matrix (S) Sound Matrix (S) Learn Muker (S) Sound Matrix (S) Sound Matrix (S) Sound Matrix (S) Depleted Matrix (S) Sound Matrix (S) Sound Matrix (S) Sound Matrix (S) Sound Matrix (S) Sound Matrix (S) Water Matrix (S) <td>ype: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, F ype: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, F ype: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, F ype: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, F ype: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, F ype: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, F ype: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, F ype: Sandy Redox (S5) Stripped Matrix (S6)</td> <td>Savd Savd Silt loavn Silt loavn RC=Root Channel, M=Matrix. Indicators for Problematic Hydric Solls³: 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B)</td>	ype: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, F ype: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, F ype: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, F ype: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, F ype: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, F ype: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, F ype: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, F ype: Sandy Redox (S5) Stripped Matrix (S6)	Savd Savd Silt loavn Silt loavn RC=Root Channel, M=Matrix. Indicators for Problematic Hydric Solls ³ : 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B)
-12 (b YR + 3 \D O SqN.d 2-20 N 2.5/Ø \D O Silt DavN ge: C=Concentration, D=Depletion, RM=Reduced Matrix. *1 coation: PL=Pore Lining, RC=Rod Channel, M=Matrix. r/dic Soli Indicators: (Applicable to al LRRs, unless otherwise noted.) indicators for Problematic Hydric Solis?: Histo Eppedm (A2) Stady Reduc (S5) _1 on Muck (A0) (LRR D) Black Histic (A3) Loamy Mucky Minersi (F1) Reduced Vertic (F16) Hydrogen Suffice (A4) Loamy Gleyed Matrix (F3) Other (Explain in Remarks) 1 on Muck (A3) (LRR D) Reduced Vertic (F2) Red Parent Material (T72) Stratified Layers (A5) (LRR D) Reduced Vertic (F3) Other (Explain in Remarks) 1 on Muck (A3) (MRR D) Reduced Vertic (F2) Red Parent Material (T72) Stratified Layers (A5) (LRR C) Depleted Dark Surface (F1) Noter (Explain in Remarks) Stratified Layers (A12) Redux Depressions (F6) Matrix (A10) (LRR P) Stratified Layers (If present): Ypre: Hydric Soil Present? Yes No Mo Stratified Layers (If present): Stratified Hydrology Indicators: Secondary Indicators (2 or more regulated) Stratified K2) Biotic Crust (B11) Secondary Indicat	p-12 i 0 YR 4/3 100 2-20 N 2.5/Ø 100 ype: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, F yrdric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	<u>Sand</u> <u>SIT Ioavn</u> <u>RC=Root Channel, M=Matrix.</u> Indicators for Problematic Hydric Solls ³ : 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B)
22-20 N 2.5/g/limits 100 Silt 104/N get: C=Concentration, D=Depletion, RM=Reduced Matrix. *Location: PL=Pore Lining, RC=Rod Channel, M=Matrix. dift Soil Inflictators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils': Histoc Epipeton (A2) Sandy Redox (S5) 1 on Muck (A10) (LRR D) Back Histic (A3) Learny Mucky Minera (F1) Reduced Varia (F19) Hydrogen Sulfide (A4) Learny Mucky Minera (F1) Reduced Varia (F19) Hydrogen Sulfide (A4) Learny Gleyed Matrix (F3) Other (Explain in Remarks) Tom Muck (A9) (LRR D) Redox Dark Surface (F7) Redox Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A11) Redox Depressions (F8) *Indicators of hydrophylic vegetation and wetland hydrology must be present. Strictice Layer (If present): Type: Hydric Soil Present? Yes No	2-20 N 2.5/Ø 100 ype: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, F rdrlc Soli Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	<u>SIT IOUVN</u> <u>RC=Root Channel, M=Matrix.</u> Indicators for Problematic Hydric Solis ³ : <u>1</u> cm Muck (A9) (LRR C) <u>2</u> cm Muck (A10) (LRR B)
pre: C=Concentration_D=Depletion_RM=Reduced Matrix ² Location: PL=Pore Lining_RC=Root Channel, M=Matrix. iffe Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ² : Histopi (A1)	ype: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, F drlc Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) _ Histosol (A1) Sandy Redox (S5) _ Histic Epipedon (A2) Stripped Matrix (S6)	RC=Root Channel, M=Matrix. Indicators for Problematic Hydric Solis ³ : 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B)
pre: C=Concentration_D=Depletion_RM=Reduced Matrix ² Location: PL=Pore Lining_RC=Root Channel, M=Matrix. iffe Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ² : Histopi (A1)	ype: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, F drlc Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) _ Histosol (A1) Sandy Redox (S5) _ Histic Epipedon (A2) Stripped Matrix (S6)	RC=Root Channel, M=Matrix. Indicators for Problematic Hydric Solis ³ : 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B)
drie Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*: Histo Epipedon (A2) Stripped Matrix (S5)	dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6)	Indicators for Problematic Hydric Solis ³ : 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B)
drie Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*: Histo Epipedon (A2) Stripped Matrix (S5)	dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6)	Indicators for Problematic Hydric Solis ³ : 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B)
drie Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*: Histo Epipedon (A2) Stripped Matrix (S5)	dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6)	Indicators for Problematic Hydric Solis ³ : 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B)
drie Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*: Histo Epipedon (A2) Stripped Matrix (S5)	dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6)	Indicators for Problematic Hydric Solis ³ : 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B)
Histosol (A1)	Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6)	1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B)
Histic Epipedon (A2) Stripped Matrix (S5) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Stuffde (A4) Loamy Mucky Mineral (F2) Red Parent Material (F2) Strattified 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 (F6) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Vernal Pools (F9) Indicators of hydrophytic vegetation and wetland hydrology must be present. strictive Layer (If present): Type:	Histic Epipedon (A2) Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
Black Histic (A3) Loamy Gleyed Matrix (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Strattifed Layers (A5) (LRR C) Depleted Matrix (F2) Red Parent Material (TF2) Cher (Explain in Remarks) Depleted Matrix (F3) Cther (Explain in Remarks) Depleted Blow Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Dark Surface (F7) Thick Dark Surface (A12) Redox Dark Surface (F7) Thick Dark Surface (A12) Wetnal Pools (F9) Sandy Cleyed Matrix (C4) Vernal Pools (F9) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present. Strictive Layer (If present): Type:		
Hydrogen Suffice (A4)		
Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Bow Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Gleved Matrix (S4) wetland hydrology must be present. strictive Layer (if present): Type: Depleted Bow Sark Surface (A11) Vernal Pools (F9) 'Indicators of hydrophytic vegetation and wetland hydrology must be present. strictive Layer (if present): Type: Deplet (inches): Hydrology Indicators: mary Indicators (any one indicator is sufficient) Salt Crust (B11) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biolite Crust (B12) Saturation (A3) Aquatic Inverterstes (B13) Veter Marks (B1) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Surface Soil Cracks (B2) Oxidized Rhizospheres along Living Roots (C3) Surface Soil (Nonriverine) Presence of Reduced Iron (C4) Crayfis Burrows (C8) Surface Soil (S2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Shation Vaible on Aerial Imagery (C2) Init date Present? Yes		
Inimitation (A9) (LRC D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Micky Mineral (S1) Vernal Pools (F9) 'indicators of hydrophytic vegetation and wetland hydrology must be present. strictive Layer (IF present): Type:		
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Vernal Pools (F9) strictive Layer (if present): wetland hydrology must be present. Type:		
Thick Dark Surface (A12)		
Sandy Mucky Mineral (S1) Vernal Pools (F9) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present. Strictive Layer (If present):		
Sandy Glevel Matrix (S4) wetland hydrology must be present. strictive Layer (if present):		³ Indicators of hydrophytic vegetation and
Bit Disposed matrix (Cr) Type: Depth (inches): marks: DROLOGY stilland Hydrology Indicators: mary Indicators (2 or more required) mark science Surface Water (A1) Hydric Soil Present? Yes No Surface Water (A1) Surface Water (A1) Hydrogen Sufficient) Surface Water (A1) Hydrogen Sufficient) Surface Water (A1) Hydrogen Sufficient) Sufface Water (A1) Saturation (A2) Biolic Crust (B12) Drift Deposits (B3) (Riverine) Startaritin (A3) Water Marks (B1) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Drift Deposits (B3) (Nonriverine) Orift Deposits (B3) (Nonriverine) Orift Deposits (B3) (Nonriverine) Orift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Recent Iron Reduction in Powed Soils (C6) Saturation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Water Table Present? <td></td> <td>• • • •</td>		• • • •
Type:		
Depth (Inches): Hydric Soil Present? Yes No marks: marks: DROLOGY ettand Hydrology Indicators: Secondary Indicators (2 or more required) mary Indicators (any one indicator is sufficient) Water Marks (B1) (Riverine) 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) Staface Soil Cracks (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Water Table Present? Yes X No Depth (inches): L2 Urater Table Present? Yes X No		,
DROLOGY etiand Hydrology Indicators: mary Indicators (any one indicator is sufficient) Surface Water (A1) Surface Water (A1) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drift Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Ind Observations: rface Water Present? Yes No Depth (inches): Litor Present? Yes No Depth (inches): Utation Present? Yes No Depth (inches): Depth (inches): Yes No Depth (inches): Surface Odd Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		Hudria Ball Present? Vas X No
DROLOGY stland Hydrology Indicators: Secondary Indicators (2 or more required) mary Indicators (any one indicator is sufficient) Water Marks (B1) (RiverIne) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (RiverIne) High Water Table (A2) Biotic Crust (B12) Drainage Pattems (B10) Saturation (A3) Aquatic Invertebrates (B13) Drainage Pattems (B10) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living 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 (C6) Saturation Visible on Aerial Imagery (C Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Water-Stained Leaves (B3) FAC-Neutral Test (D5) Id Observations: rface Water Present? Yes No Depth (inches): Water And Hydrology Present? Yes X No Ludes capillary fringe) Depth (inches): 12.0 Wetland Hydrology Present? Yes X No Soriche Recorded Data (stream gauge, monitoring well, aerial	Depin (Incnes):	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Ind Observations: FAC-Neutral Test (D5) Inter Table Present? Yes No Vertaria Table Present? Yes No Utation Present? Yes No Depth (inches): 12.0 Wetland Hydrology Present? Ves No Depth (inches): 12.0 Scribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: No	High Water Table (A2)	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)
Water-Stained Leaves (B9)		
of dobservations: No Depth (inches):	-	
rface Water Present? Yes No Depth (inches): iter Table Present? Yes X No Depth (inches): turation Present? Yes X No Depth (inches): Wetland Hydrology Present? Yes X turation Present? Yes X No Depth (inches): Wetland Hydrology Present? Yes X No cludes capillary fringe) Scribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: No		
tter Table Present? Yes <u>No</u> Depth (inches): <u>18.0</u> turation Present? Yes <u>No</u> Depth (inches): <u>12.0</u> Wetland Hydrology Present? Yes <u>No</u> cludes capillary fringe) scribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Id Observations:	
turation Present? Yes X No Depth (inches): <u>12-0</u> Wetland Hydrology Present? Yes X No scribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
turation Present? Yes X No Depth (inches): <u>12-0</u> Wetland Hydrology Present? Yes X No scribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	ater Table Present? Yes X No Depth (inches): 18.0	\checkmark
cludes capillary fringe) scribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	turation Present? Yes X No Depth (inches): 12.0 Wetl	and Hydrology Present? Yes 🐥 No
scribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	cludes capillary fringe)	
marks:	scribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections),	if available:
	marks:	

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Project/Site: San Diago Creek Post - Int- Applicant/Owner: COUVILL OF OVAME R.D.N.	erim_city/ ND	County: 0ra	<u>Me Couvity</u> Sampling Date: <u>3/14/07</u> State: <u>CA</u> Sampling Point: <u>4</u>
Investigator(s): R. Beck, L. See, W. Sal			ange: Section 59, T.65, R.9W, SBBM
Landform (hillslope, terrace, etc.): <u>tootslope</u> Subregion (LRR): LRR C	Loci	al relief (concave \$35952	, convex, none): <u>(OnCalve</u> Slope (%): <u>1</u> Long: <u>33. 672901</u> Datum: <u>NAD 83</u>
Soil Map Unit Name: Balcom clay loum, 9-15			
Are climatic / hydrologic conditions on the site typical for thi		. /	
		/	"Normal Circumstances" present? Yes 🗙 No
Are Vegetation, Soil, or Hydrology r	naturally problem	natic? (If n	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map	showing sar	npling point	locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X N	o	Is the Sample	d Area
Hydric Soil Present? Yes N	• <u> </u>	within a Wetla	
Wetland Hydrology Present? Yes X N	°		
Remarks:			
VEGETATION			······································
Tree Stratum (Use scientific names.)	Absolute Don % Cover Spe	ninant Indicator	Dominance Test worksheet:
1. SALLY LASIDIPOIS	80 1		Number of Dominant Species (A)
2	·		Total Number of Dominant
3	• ••••••••••••••••••••••••••••••••••••		Species Across All Strata:(B)
4.			Percent of Dominant Species
Total Cover: Sapling/Shrub Stratum	:_80_`		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 =
Total Cover: Herb Stratum			FACU species x 4 =
1. Tupha, latifolia	20 1	OBL	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'
7	······································		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
8	00		Problematic Hydrophytic Vegetation ¹ (Explain)
Total Cover: Woody Vine Stratum	_20		
1			¹ Indicators of hydric soil and wetland hydrology must
2			be present.
Total Cover:			Hydrophytic
	of Biotic Crust	<u></u>	Vegetation Present? Yes <u>No</u> No
Remarks:			

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rofile Desc	• • • •		D- J F	
)epth inches)	Matrix Color (moist)	%	Redox Features Color (moist) % Type ¹	Loc ² Texture Remarks
2-18	10 YR 3/2			
	w			
		·····		
			educed Matrix.	e Lining, RC=Root Channel, M=Matrix. Indicators for Problematic Hydric Soils ³ :
Histosol			Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
	ipedon (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)
_ 1 cm Mu	ck (A9) (LRR D)		Redox Dark Surface (F6)	
	Below Dark Surfa	ce (A11)	Depleted Dark Surface (F7)	
_ Thick Da	rk Surface (A12)		Redox Depressions (F8)	
_ Sandy M	ucky Mineral (S1)	•	Vernal Pools (F9)	³ Indicators of hydrophytic vegetation and
_ Sandy G	eyed Matrix (S4)		·	wetland hydrology must be present.
strictive L	ayer (if present):			
Type:				
Depth (inc			-	Hydric Soll Present? Yes No
Depth (inc emarks:	hes):		 	Hydric Soll Present? Yes No
emarks:	hes):			Hydric Soll Present? Yes No
DROLOC etland Hyd	θes):		 L.	
emarks: DROLOC etland Hyd imary Indic	hes): 3Y rology Indicators ators (any one indic			Secondary Indicators (2 or more required)
emarks: DROLOC etland Hyd imary Indica Surface V	hes): FY rology Indicators ators (any one indicators) Vater (A1)			<u>Secondary Indicators (2 or more required)</u> Water Marks (B1) (Riverine)
emarks: DROLOC etland Hyd imary Indic Surface V High Wat	hes): 3Y rology Indicators ators (any one indi- vater (A1) er Table (A2)			<u>Secondary Indicators (2 or more required)</u> Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
emarks: DROLOC etland Hyd imary Indic Surface V High Wat Saturatio	hes): GY rology Indicators ators (any one indi- vater (A1) er Table (A2) n (A3)	: cator is sufficie	nt) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)	<u>Secondary Indicators (2 or more required)</u> Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
emarks: DROLOC etland Hyd imary Indic Surface V High Wat Saturatio Water Ma	hes): Tology Indicators ators (any one indi- Vater (A1) er Table (A2) n (A3) rks (B1) (Nonriver	: cator is sufficien	nt) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	<u>Secondary Indicators (2 or more required)</u> Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
emarks: DROLOC etland Hyd imary Indic: Surface V High Wat Saturatio Water Ma Sediment	Hes): Tology Indicators ators (any one individual Vater (A1) er Table (A2) h (A3) Irks (B1) (Nonriver Deposits (B2) (No	: cator is sufficien rine) nriverine)	nt) Salt Crust (B11) Salt Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I	<u>Secondary Indicators (2 or more required)</u> Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Living Roots (C3) Thin Muck Surface (C7)
DROLOC etland Hyd imary Indici Surface V High Wat Saturatio Water Ma Sediment Drift Depo	SY rology Indicators ators (any one indi Vater (A1) er Table (A2) n (A3) urks (B1) (Nonriver Deposits (B2) (No osits (B3) (Nonriver	: cator is sufficien rine) nriverine)	nt) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I 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) iving Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8)
DROLOC etland Hyd imary Indici Surface V High Wat Saturatio Water Ma Sediment Drift Depo Surface S	Final States (AC) (Nonriver Tology Indicators ators (any one indicators ators (any one indicators (AC)	: cator is sufficien rine) onriverine) rine)	nt) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4 Recent Iron Reduction in Plowe	Secondary Indicators (2 or more required)
DROLOC etland Hyd imary Indici Surface V High Wat Saturatio Water Ma Sediment Drift Depu Surface S Inundatio	Arrish and the set of	: cator is sufficien rine) onriverine) rine)	nt) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4	Secondary Indicators (2 or more required)
DROLOC etland Hyd imary Indici Surface V High Wat Saturatio Water Ma Sediment Drift Depu Surface S Inundatio Water-Sta	hes): rology Indicators ators (any one indi- vater (A1) er Table (A2) n (A3) rrks (B1) (Nonriver Deposits (B2) (No posits (B3) (Nonriver Soil Cracks (B6) n Visible on Aerial ained Leaves (B9)	: cator is sufficien rine) onriverine) rine)	nt) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4 Recent Iron Reduction in Plowe	Secondary Indicators (2 or more required)
DROLOC etland Hyd imary Indici Surface V High Wat Saturatio Water Ma Sediment Drift Depu Surface S Inundatio Water-Sta	Arright SY SY rology Indicators ators (any one indi- Vater (A1) er Table (A2) n (A3) urks (B1) (Nonriver Deposits (B2) (No posits (B3) (Nonriver coll Cracks (B6) n Visible on Aerial ained Leaves (B9) ations:	: cator is sufficien rine) nriverine) rine) imagery (B7)	nt) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4 Recent Iron Reduction in Plowa Other (Explain in Remarks)	Secondary Indicators (2 or more required)
DROLOC etland Hyd imary Indic: Surface V High Wat Saturatio Saturatio Sediment Drift Dep Surface S Inundatio	hes): rology Indicators ators (any one indir Vater (A1) er Table (A2) n (A3) Irks (B1) (Nonriver Deposits (B2) (No posits (B3) (Nonriver Soil Cracks (B6) n Visible on Aerial aned Leaves (B9) ations: r Present?	rine) prriverine) priverine) imagery (B7)	nt) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4 Recent Iron Reduction in Plow Other (Explain in Remarks) Depth (inches):	Secondary Indicators (2 or more required)
DROLOC etland Hyd imary Indica Surface V High Wat Saturatio Water Ma Sediment Drift Depu Surface S Inundatio Water-Sta eld Observ	hes): rology Indicators ators (any one indi- Vater (A1) er Table (A2) n (A3) Irks (B1) (Nonriver Deposits (B2) (No posits (B3) (Nonriver coll Cracks (B6) n Visible on Aerial aned Leaves (B9) ations: r Present?	: cator is sufficien rine) nriverine) rine) imagery (B7)	nt) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4 Recent Iron Reduction in Plowe Other (Explain in Remarks) X Depth (inches):	Secondary Indicators (2 or more required)
DROLOC etland Hyd imary Indica Surface V High Wate Saturatio Water Ma Sedimeni Drift Depro Surface S Inundatio Water-Sta eld Observ orface Wate	hes): rology Indicators ators (any one indir Vater (A1) er Table (A2) n (A3) Irks (B1) (Nonriver Deposits (B2) (No posits (B3) (Nonriver Soil Cracks (B6) n Visible on Aerial ained Leaves (B9) ations: r Present? Yresent?	rine) inniverine) imagery (B7) /es No /es No	nt) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4 Recent Iron Reduction in Plowe Other (Explain in Remarks) X Depth (inches): 22. 0	Secondary Indicators (2 or more required)
DROLOC etland Hyd imary Indic: Surface W Saturatio Saturatio Saturatio Saturatio Saturatio Surface S Inundatio Water-Sta eld Observ orface Wate ater Table F aturation Pra	Arrish and the second s	rine) onriverine) erine) Imagery (B7) Zes No Zes No	nt) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4 Recent Iron Reduction in Plowa Other (Explain in Remarks) X Depth (inches): Depth (inches): L(f. D)	Secondary Indicators (2 or more required)
DROLOC etland Hyd imary Indic: Surface W Saturatio Saturatio Saturatio Saturatio Saturatio Surface S Inundatio Water-Sta eld Observ orface Wate ater Table F aturation Pra	hes): rology Indicators ators (any one indir Vater (A1) er Table (A2) n (A3) rrks (B1) (Nonriver Deposits (B2) (No posits (B3) (Nonriver Soil Cracks (B6) n Visible on Aerial ained Leaves (B9) ations: r Present? Present? Sent?	rine) onriverine) erine) Imagery (B7) Zes No Zes No	nt) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4 Recent Iron Reduction in Plowe Other (Explain in Remarks) X Depth (inches): 22. 0	Secondary Indicators (2 or more required)
DROLOC etland Hyd imary Indic: Surface W Saturatio Saturatio Saturatio Saturatio Saturatio Surface S Inundatio Water-Sta eld Observ orface Wate ater Table F aturation Pra	hes): rology Indicators ators (any one indir Vater (A1) er Table (A2) n (A3) rrks (B1) (Nonriver Deposits (B2) (No posits (B3) (Nonriver Soil Cracks (B6) n Visible on Aerial ained Leaves (B9) ations: r Present? Present? Sent?	rine) imagery (B7) /es No /es No /es No	nt) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4 Recent Iron Reduction in Plowa Other (Explain in Remarks) X Depth (inches): Depth (inches): L(f. D)	Secondary Indicators (2 or more required)
DROLOC etland Hyd imary Indic: Surface V High Wat Saturatio Saturatio Sediment Drift Depr Surface S Inundatio Water Sta Idd Observ frace Wate ater Table F ater Table F cludes capi sscribe Record ACDLOC	hes): rology Indicators ators (any one indir Vater (A1) er Table (A2) n (A3) rrks (B1) (Nonriver Deposits (B2) (No posits (B3) (Nonriver Soil Cracks (B6) n Visible on Aerial ained Leaves (B9) ations: r Present? Present? Sent?	rine) imagery (B7) /es No /es No /es No	nt) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4 Recent Iron Reduction in Plowa Other (Explain in Remarks) X Depth (inches): Depth (inches): L(f. D)	Secondary Indicators (2 or more required)
DROLOC etland Hyd imary Indic: Surface V High Wat Saturatio Saturatio Sediment Drift Depr Surface S Inundatio Water Sta Idd Observ frace Wate ater Table F ater Table F cludes capi sscribe Record ACDLOC	hes): rology Indicators ators (any one indir Vater (A1) er Table (A2) n (A3) rrks (B1) (Nonriver Deposits (B2) (No posits (B3) (Nonriver Soil Cracks (B6) n Visible on Aerial ained Leaves (B9) ations: r Present? Present? Sent?	rine) imagery (B7) /es No /es No /es No	nt) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4 Recent Iron Reduction in Plowa Other (Explain in Remarks) X Depth (inches): Depth (inches): L(f. D)	Secondary Indicators (2 or more required)
DROLOC etland Hyd imary Indic: Surface V High Wat Saturatio Saturatio Sediment Drift Depr Surface S Inundatio Water Sta Idd Observ frace Wate ater Table F ater Table F cludes capi sscribe Record ACDLOC	hes): rology Indicators ators (any one indir Vater (A1) er Table (A2) n (A3) rrks (B1) (Nonriver Deposits (B2) (No posits (B3) (Nonriver Soil Cracks (B6) n Visible on Aerial ained Leaves (B9) ations: r Present? Present? Sent?	rine) imagery (B7) /es No /es No /es No	nt) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4 Recent Iron Reduction in Plowa Other (Explain in Remarks) X Depth (inches): Depth (inches): L(f. D)	Secondary Indicators (2 or more required)

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Project/Site: San Digito Creek	Post-Interim	_ City/County: _OVA	me County	Sampling Date: 3/14/07
Applicant/Owner: COUVILL OF OV	ume ROMD		State: <u>CA</u>	Śampling Point: 5
Investigator(s): R. BPCK, L. CP	e, W. Salter	Section, Township, I	Range: Section 59, T.	65, R.9W. SBBM
Landform (hillslope, terrace, etc.): +00				
				5 Datum: NAD 83
Soil Map Unit Name: Ballom da				
Are climatic / hydrologic conditions on the	J /	· /	,	
Are Vegetation, Soil, or H				esent? Yes No
Are Vegetation, Soil, or H			needed, explain any answers	
SUMMARY OF FINDINGS - Att				
Hydrophytic Vegetation Present?	Yes No			
Hydric Soil Present?	Yes No	is the Gampio		
Wetland Hydrology Present?	Yes 🔽 No	- within a Wetl	and? Yes <u>V</u>	No
Remarks:		L	Which is a first from a second source in the first first second source as a second source as a second source as	
VEGETATION				
	Absolute	e Dominant Indicator	Dominance Test workst	neet.
Tree Stratum (Use scientific names.)		r Species? Status		ciac .
1			_ That Are OBL, FACW, or	
2			- Total Number of Dominar	it i
3			_ Species Across All Strata	: <u> </u>
4			Percent of Dominant Spe	
Sapling/Shrub Stratum	Total Cover:		That Are OBL, FACW, or	FAC: 100 (A/B)
1			Prevalence Index works	heet:
2			Total % Cover of:	Multiply by:
3			OBL species	1
4			FACW species	
5	······································		FAC species	
Herb Stratum	Total Cover:		FACU species	
1. Tupha latifolia	100	V OBL		X 5 = (B)
2.	······································			(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 supporting on a separate sheet)
B			Problematic Hydrophy	
Woody Vine Stratum	Total Cover: 100	-		
1			Indicators of hydric soil an	d wetland hydrology must
2.	· ·		be present.	
	Total Cover:		Hydrophytic	
% Bare Ground in Herb Stratum		-	Vegetation Present? Yes	No
Remarks:			1030111 105	<u>v </u>
Normal NS.				
		·····		

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Profile Description: (Describe to the depth needed to document the indicator or confirm Depth <u>Matrix</u> <u>Redox Features</u> (inches) <u>Color (moist)</u> % <u>Color (moist)</u> % <u>Type</u> ¹ Loc ² 0-0 (6-12 IDYR 6/2 IDO 	m the absence of indicators.) Texture Remarks Muck
Color (moist) % Color (moist) % Type ¹ Loc ² O-O IOYR 6/2 IOO IOO IOO IOO IOO G-I2 IOYR 6/2 IOO IOO IOO IOO IOO IOO IDYR 6/2 IOO IOO IOO IOO IOO IOO IOO IDYR 6/2 IOO IOO IOO IOO IOO IOO IOO IDYR 6/2 IOO IOO	muck
0-6 6-12 10YR 6/2 100 <	muck
G=12 IOYR 6/2 IOO Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, F Hydric Soli Indicators: (Applicable to all LRRs, unless otherwise noted.)	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, F lydric Soli Indicators: (Applicable to all LRRs, unless otherwise noted.)	Sana
ydric Soli Indicators: (Applicable to all LRRs, unless otherwise noted.)	
ydric Soli Indicators: (Applicable to all LRRs, unless otherwise noted.)	
ydric Soli Indicators: (Applicable to all LRRs, unless otherwise noted.)	· · · · · · · · · · · · · · · · · · ·
ydric Soli Indicators: (Applicable to all LRRs, unless otherwise noted.)	
ydric Soli Indicators: (Applicable to all LRRs, unless otherwise noted.)	
lydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.)	
lydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.)	
ydric Soli Indicators: (Applicable to all LRRs, unless otherwise noted.)	
ydric Soli Indicators: (Applicable to all LRRs, unless otherwise noted.)	C=Root Channel, M=Matrix.
	Indicators for Problematic Hydric Solls ³ :
Histosol (A1) Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Histic Epipedon (A2)	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)	
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:	1
Depth (inches):	Hydric Soil Present? Yes 🗸 No
Pemarks:	
YDROLOGY Vetland Hydrology Indicators: Irimary Indicators (any one indicator is sufficient) Surface Water (A1)Salt Crust (B11) High Water Table (A2)Biotic Crust (B12)	<u>Secondary Indicators (2 or more required)</u> Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Saturation (A3) Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roc	
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soll Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)
ield Observations:	
urface Water Present? Yes No Depth (inches):	
/ater Table Present? Yes <u>No</u> Depth (inches): <u>1.0</u>	1
	and Hydrology Present? Yes 📈 No
ncludes capillary fringe)	
escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections),	if available:
Aenal photographs	
MANNE PHUJUNIKPIJO	
Remarks:	

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vestigator(s): R. BPCK, L.S. P.	1			ownshin R	ange: Section 59, T.6S, R.9W, SBBN
					, convex, none): <u>CONCAVE</u> Slope (%): <u>1</u>
And oth (missippe, tenace, etc.), <u>TDLS</u>	10pc				
Dregion (LRR): <u>CRK</u>	. 1	_ Lat: <u></u>	1.000	1-18	_ Long: 33. 672588 Datum: NAD 8
	<i>U</i>			1.	NWI classification: R2USCX
e climatic / hydrologic conditions on the s					
e Vegetation, Soil, or Hyd	rology s	ignificantly	disturbed?	Are	"Normal Circumstances" present? Yes 🔨 No 🔄
e Vegetation Soil, or Hyd	rology n	aturally pro	blematic?	(lf n	needed, explain any answers in Remarks.)
UMMARY OF FINDINGS - Attac	ch site map	showina	samplir	na point	locations, transects, important features, e
		······		<u> </u>	
	Yes N	o	is ti	ne Sample	
	Yes N		with	nin a Wetla	nd? Yes No
Vetland Hydrology Present?	Yes No	o			
					· ·
GETATION					
		Absolute	Dominant	Indicator	Dominance Test worksheet:
ree Stratum (Use scientific names.)		<u>% Cover</u>			Number of Dominant Species
Sally goodingi		30_		OBL	That Are OBL, FACW, or FAC: (A)
					Total Number of Dominant
· ·					Species Across All Strata: (B)
		<u>an</u>		*****	Percent of Dominant Species
apling/Shrub Stratum	Total Cover:	30			That Are OBL, FACW, or FAC: (A/E
Saliv goudinaii		70	./	OBL	Prevalence Index worksheet;
Sury goodingi					Total % Cover of: Multiply by:
		<u></u>			OBL species x 1 =
					FACW species x 2 =
			14.946-0-440-040-04-04		FAC species x 3 =
·	Total Cover:	70			FACU species x 4 =
erb Stratum					UPL species x 5 =
		······			Column Totals: (A) (B)
					Prevalence Index = B/A =
					Hydrophytic Vegetation Indicators:
					Dominance Test is >50%
					Prevalence Index is ≤3.01
					Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
					Problematic Hydrophytic Vegetation ¹ (Explain)
oody Vine Stratum	Total Cover:				
					¹ Indicators of hydric soil and wetland hydrology must
					be present.
	Total Cover:				Hydrophytic
Poro Cround in Llock Strature	-				Vegetation 🦯
Bare Ground in Herb Stratum	% Cover o	I BIOTIC Cru	sī		Present? Yes V No
marks:					

 \bigcirc

		to the depth				n the absence of Ind		
Depth (inches)	Color (moist)	%	Color (moist)	x Features % Type'	Loc ²	Texture	Remarks	
17-1	10YR 3/1	100				·	ann	
Vi							JULYIN	
1-10	106 2.5/0	100		-		sang		
10-14	10YR 5/3	100		_		sand		
<u>1 ×</u>								
			· · · · · · · · · · · · · · · · · · ·					
		· ····································		-			•	
					·,			
		. <u></u>		-	L			
	oncentration, D=Dep				e Lining, R	C=Root Channel, M=		
Hydric Soll	Indicators: (Application	able to all LF	RRs, unless othe	rwise noted.)		Indicators for Pro	oblematic Hydric S	olls":
Histosol	(A1)		Sandy Red	ox (S5)		1 cm Muck (A	.9) (LRR C)	
Histic Ep	pipedon (A2)		Stripped Ma	atrix (S6)		2 cm Muck (A	10) (LRR B)	
Black Hi	stic (A3)		Loamy Muc	ky Mineral (F1)		Reduced Vert	ic (F18)	
\overline{Z} Hydroge	n Sulfide (A4)		Loamy Gley	yed Matrix (F2)		Red Parent M	aterial (TF2)	
Stratified	Layers (A5) (LRR C	2)	Depleted M	atrix (F3)		Other (Explain	n in Remarks)	
	ck (A9) (LRR D)		Redox Dark	(Surface (F6)				
	Below Dark Surface	e (A11)		ark Surface (F7)				
Thick Da	ark Surface (A12)			ressions (F8)				
Sandy N	lucky Mineral (S1)		Vernal Pool	s (F9)		···· · · ·	ophytic vegetation a	
Sandy G	leyed Matrix (S4)			· · · · · · · · · · · · · · · · · · ·		wetland hydrol	ogy must be present	•
Restrictive I	.ayer (if present):							
Type:							1	
Depth (inc	thes):					Hydric Soil Preser	nt? Yes	No
	ches):					Hydric Soil Preser	nt? Yes	No
Depth (ind Remarks:	ches):			i		Hydric Soil Preser	nt? Yes	No
	shes):					Hydric Soll Preser	nt? Yes	No
	shes):			·		Hydric Soll Preser	nt? Yes 🗸	No
	ches):			L.		Hydric Soil Preser	nt? Yes	No
Remarks:				<u>ن</u>		Hydric Soil Preser	nt? Yes	No
Remarks: YDROLO	GY			<u>۲</u>		· · · · · · · · · · · · · · · · · · ·		
Remarks: YDROLO Wetland Hyd	GY Irology Indicators:			٤.		<u>Secondary In</u>	dicators (2 or more	
Remarks: YDROLO Wetland Hyd	GY	ator is sufficie		٤.		<u>Secondary In</u>		
Remarks: YDROLO Wetland Hyd	GY Irology Indicators:	ator is sufficie				<u>Secondary In</u> Water M	dicators (2 or more	equired)
Pemarks: YDROLO Wetland Hyd Primary Indic Surface	GY Irology Indicators: ators (any one indica Water (A1)	ator is sufficie		(B11)		<u>Secondary In</u> Water M Sedimen	dicators (2 or more arks (B1) (Riverine)	equired) erine)
Primarks: YDROLO Wetland Hyc Primary Indic Surface \ ✓ High Wa	GY Irology Indicators: ators (any one indica Water (A1) ter Table (A2)	ator is sufficie	int) Salt Crust Biotic Crust	(B11) it (B12)		<u>Secondary In</u> Water M Sedimen Drift Dep	dicators (2 or more arks (B1) (Riveríne) t Deposits (B2) (Riv	equired) erine)
Primarks: YDROLO Wetland Hyc Primary Indic Surface ↓ High Wa Saturatic	GY trology Indicators: ators (any one indica Water (A1) ter Table (A2) m (A3)		int) Salt Crust Biotic Crus Aquatic Inv	(B11) it (B12) vertebrates (B13)		<u>Secondary In</u> <u> </u>	<u>dicators (2 or more</u> arks (B1) (Riverine) t Deposits (B2) (Riv osits (B3) (Riverine	required) erlne))
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Permarks: YDROLO Wetland Hyc Primary Indic Surface V High Wa Saturatic Water M Sedimen	GY drology Indicators: ators (any one indica Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverli t Deposits (B2) (Non	ne) Iriverine)	int) Salt Crust Biotic Crust Aquatic Inv Hydrogen I Oxidized R	(B11) it (B12) vertebrates (B13) Sułfide Odor (C1) thizospheres along L		Secondary In Water M Sedimen Drift Dep Drainage Dry-Seas ts (C3) Thin Muc	dicators (2 or more arks (B1) (Riverine) t Deposits (B2) (Riv osits (B3) (Riverine Patterns (B10) son Water Table (C2 k Surface (C7)	required) erlne))
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Primarks: YDROLO Vetland Hyc Primary Indic Surface V High Wa Saturatio Water M Sedimen Drift Dep Surface S Inundatic Water St Surface Water Vater Table I Saturation Pr ncludes cap Describe Rec ACLA	GY frology Indicators: ators (any one indicators: ators (any one indicators: Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriveriator) to Deposits (B2) (Nonriveriator) Soil Cracks (B6) on Visible on Aerial In ained Leaves (B9) vations: r Present? Ye esent? Ye esent? Ye illary fringe) orded Data (stream generic)	ne) Iriverine) Ine) magery (B7) es No es No rs No	Salt Crust Biotic Crus Aquatic Inv Aquatic Inv Hydrogen Oxidized R Presence c Recent Iror Other (Exp Depth (inc Depth (inc	(B11) t (B12) vertebrates (B13) Sulfide Odor (C1) thizospheres along L of Reduced Iron (C4) in Reduction in Plowe lain in Remarks) thes): thes): thes): thes):) ed Soils (C Wetła	Secondary In Water Ma Sedimen Drift Dep Drain age Dry-Seas ts (C3) Thin Muc Crayfish Saturatio Shallow / FAC-Neu nd Hydrology Prese	dicators (2 or more arks (B1) (Riverine) t Deposits (B2) (Riverine Patterns (B10) con Water Table (C2 k Surface (C7) Burrows (C8) n Visible on Aerial In Aquitard (D3) tral Test (D5)	required) erine)) nagery (C9)

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Project/Site: San Digio Creek Applicant/Owner: COUVILL OF OF	Post-Int	erim_	City/Cou	inty: Ora	me County sampling Date: 3/1407
Appricantice of the court of the	AVIAC RUI				State: <u>CA</u> Sampling Point: <u>7</u>
Investigator(s): K. DPLE, U.S.F	E, W. Salt	EV	Section,	Township, R	Range: Section 59, T. 65, R.9W, SBBM
Landform (hillslope, terrace, etc.): 100	tslope		Local re	lief (concave	e, convex, none): <u>COVYANC</u> Slope (%): 1
Subregion (LRR): <u>LRR</u> C		Lat: <u></u>])	7.82	5706	Long: <u>33. (069991</u> Datum: <u>NAD 83</u>
Soil Map Unit Name: Balcom Clo	y loam 9	1-15%	slope	<u>'5</u>	NWI classification: PSSCx
Are climatic / hydrologic conditions on th					
Are Vegetation, Soil, or H					*"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or H					needed, explain any answers in Remarks.)
					locations, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes 🗸 N	0		the Sample	
Hydric Soil Present?	Yes N	∘_∕		•	and? Yes No
Wetland Hydrology Present?	Yes N	°			
Remarks:					
					·
VEGETATION		A 1 1- 4-			
<u>Tree Stratum</u> (Use scjentific names.)		Absolute <u>% Cover</u>		nt Indicator ? Status	Dominance Test worksheet:
1. Salix lusiolepis		60	\checkmark	FACIN	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2					Total Number of Dominant
3		wenner			Species Across All Strata: (B)
4					Demont of Deminant Species
	Total Cover:	60			Percent of Dominant Species 100 (A/B)
Sapling/Shrub Stratum 1. Salix Lasioledis			/	CAU	
i sance maiotepis		40_		- F/IW	Prevalence Index worksheet:
3	A				Total % Cover of:Multiply by:
3					OBL species x 1 = FACW species x 2 =
5.		······			FAC species x 2 =
·	Total Cover:	40			FACU species x 4 =
Herb Stratum					UPL species x 5 =
1					Column Totals: (A) (B)
2					
3					Prevalence index = B/A =
4					Hydrophytic Vegetation Indicators:
5					✓ Dominance Test is >50% Prevalence Index is ≤3.0 ¹
6					
7					Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
8					Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum	Total Cover:				
1					¹ Indicators of hydric soil and wetland hydrology must
2					be present.
	Total Cover:				Hydrophytic
% Bare Ground in Herb Stratum	% Cover a	f Biotic Crus	st		Vegetation Present? Yes No
Remarks:					

 \bigcirc

Profile Desc					
Depth	Matrix Color (moist)	%	Redox Features Color (moist) % Type	e ¹ Loc ²	Texture Remarks
(inches)	Color (moist)				1
\mathcal{O} -16	10YR5/3	100			sand
· · ·					
					·
	·····				
			durad Matrix 21 anitian DI -		
			duced Matrix. ² Location: PL=F Rs, unless otherwise noted.)	-ore Lining, RC	Indicators for Problematic Hydric Solls ³ :
-		able to all citi			
Histosol	(A1) bipedon (A2)		Sandy Redox (S5) Stripped Matrix (S6)		1 cm Muck (A9) (LRR C) 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 (Depleted Matrix (F3)		Other (Explain in Remarks)
	ck (A9) (LRR D)	-,	Redox Dark Surface (F6)		
	Below Dark Surfac	e (A11)	Depleted Dark Surface (F7)		
	rk Surface (A12)		Redox Depressions (F8)		
	lucky Mineral (S1)		Vernal Pools (F9)		³ Indicators of hydrophytic vegetation and
	leyed Matrix (S4)				wetland hydrology must be present.
	ayer (if present):			i	
Type:					/
•••	hes):				Hydric Soil Present? Yes No 🗹
			-		
Remarks:					
Remarks:			۰. بر	I	
	GY .		۰. ۲.		
YDROLOG			۰. ٤.		
YDROLOO Wetland Hyd	rology Indicators:		·····		Secondary Indicators (2 or more required)
YDROLOC Wetland Hyd Primary Indic	Irology Indicators: ators (any one indic)		<u>Secondary Indicators (2 or more required)</u> Water Marks (B1) (Riverine)
YDROLOO Vetland Hyd Primary Indic	Irology Indicators: ators (any one indic Water (A1)		:) Salt Crust (B11)		<u>Secondary Indicators (2 or more required)</u> Water Marks (B1) (Riverine) Sediment Deposits (B2) (RiverIne)
YDROLOO Vetland Hyd Primary Indic: Surface \	Irology Indicators: ators (any one indic) Salt Crust (B11) Biotic Crust (B12)		<u>Secondary Indicators (2 or more required)</u> Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
YDROLOO Vetland Hyd Primary Indic Surface V	Irology Indicators: ators (any one indic Water (A1) ter Table (A2)) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)		<u>Secondary Indicators (2 or more required)</u> Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
YDROLOO Vetland Hyd Primary Indic Surface N High Wal Saturatio	Irology Indicators: ators (any one indic Water (A1) ter Table (A2)	ator is sufficient	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1))	<u>Secondary Indicators (2 or more required)</u> Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
YDROLOO Netland Hyd Primary Indic Surface N High Wat Saturatio Water Ma	Irology Indicators: ators (any one indic Nater (A1) ier Table (A2) n (A3)	<u>ator is sufficient</u> ine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1))	<u>Secondary Indicators (2 or more required)</u> Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) s (C3) Thin Muck Surface (C7)
YDROLOO Vetland Hyd Primary Indic Surface V High Wal Saturatio Water Ma Sedimeni	Irology Indicators: ators (any one indic Vater (A1) ter Table (A2) n (A3) arks (B1) (Nonriveri	<u>ator is sufficient</u> ine) nriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)) ng Living Roots	<u>Secondary Indicators (2 or more required)</u> Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
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YDROLOO Netland Hyd Primary Indic: Surface N High Wal Saturatio Water Ma Sedimeni Orift Dep Surface S	Irology Indicators: ators (any one indic Nater (A1) ter Table (A2) n (A3) arks (B1) (Nonriveri t Deposits (B2) (Nor osits (B3) (Nonriver	<u>ator is sufficient</u> ine) nriverine) ine)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres alor Presence of Reduced Iron () ng Living Roots 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) s (C3) Thin Muck Surface (C7) Crayfish Burrows (C8)
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YDROLOG Wetland Hyd Primary Indic: Surface N High Wat Saturatio Water Ma Sediment Orift Dep Surface S Inundatio Water-Sta Surface Water Surface Water Vater Table F Saturation Pre	Irology Indicators: ators (any one indicators) Water (A1) ter Table (A2) n (A3) arks (B1) (Nonriveriant t Deposits (B2) (Nonriveriant Soll Cracks (B6) n Visible on Aerial In ained Leaves (B9) ations: r Present? Ye esent? Ye	ator is sufficient ine) nriverine) rine) magery (B7) es No	Salt Crust (B11) Salt Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres alor Presence of Reduced Iron (Recent Iron Reduction in Pli Other (Explain in Remarks) Depth (inches):) ng Living Roots C4) owed Soils (C6	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Dry-Season Water Table (C2) s (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) S) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3)
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YDROLOG Wetland Hyd Primary Indica Surface N High Wal Saturatio Water Ma Sediment Orift Depo Surface S Inundatio Water-Sta Surface Water Surface Wate Vater Table F Saturation Pre includes cabi	Irology Indicators: ators (any one indicators): Atter (A1) ter Table (A2) n (A3) arks (B1) (Nonriver) to Deposits (B2) (Nor osits (B3) (Nonriver) Soil Cracks (B6) n Visible on Aerial In ained Leaves (B9) ations: r Present? Present? Ye esent? esent? esent Psot esent Psot Psot Psot Psot Psot Psot Psot Pso	ator is sufficient ine) nriverine) ine) es No es No gauge, monitori	Salt Crust (B11) Salt Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres alor Presence of Reduced Iron (Recent Iron Reduction in Plu Other (Explain in Remarks) Depth (inches): Depth (inches): Depth (inches):) ng Living Roots C4) owed 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) (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) S) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3) FAC-Neutral Test (D5) Mo
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Project/site: San Digno Creek Post - Int	prim c	ity/County: Oral	me County Sampling Date: 3/14/07
Applicant/Owner: COUVAU OF OVERME RDY	nn		State: <u>CA</u> Sampling Point: 8
Investigator(s): R. Beck, L. See, W. Sal			
Landform (hillslope, terrace, etc.): TOES IOPE		Section, Township, R	ange: <u>xcttorid 1, 1.63, k-TW, obbiri</u>
Soil Map Unit Name: <u>Chino silty clay li</u>	Lat: D <i>(ivn</i>	1.840.301	Long: <u>33.660309</u> Datum: <u>NAD 83</u>
Are climatic / hydrologic conditions on the site typical for th			
Are Vegetation, Soil, or Hydrology			* "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology			
			needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing s	sampling point	locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No		
	100	Is the Sample	
	100	within a Wetla	nd? Yes <u>V</u> No
Remarks:			
VEGETATION			
	Absolute [Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Use scientific names.)		Species? Status	Number of Dominant Species
1. Sally goodingii	15	OBL	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 Sapling/Shrub Stratum	:15		That Are OBL, FACW, or FAC:OO (A/B)
1. Salix goodingii	5	OBL	Prevalence Index worksheet:
2			Total % Cover of: Multiply by:
3			OBL species x 1 =
4	• providence	•	FACW species x 2 =
5			FAC species x 3 =
Herb Stratum	:		FACU species x 4 =
1. Tupha latifolia	50	J OBL	UPL species $x 5 =$
2. SCIVPUS SSP.	30	V OBL	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			Problematic Hydrophytic Vegetation ¹ (Explain)
Total Cover: Woody Vine Stratum	<u> </u>		
1			¹ Indicators of hydric soil and wetland hydrology must
2			be present.
Total Cover:			Hydrophytic
% Bare Ground in Herb Stratum % Cover	of Biotic Crust		Vegetation Present? Yes <u>V</u> No
Remarks:			
S Army Corps of Engineers			Arid West - Version 11-1-2006

Profile Desc	cription: (Describe t	o the dept	h needed to docur	nent the inc	licator or	confirm th	ne absence	of Indicato	rs.)	
Depth	 Matrix			x Features		<u> </u>				
(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc ²	Texture		Remarks	
0-7	10TR 5/2	70	7.5YR 5/8	30			sand			
7-16	N 2.5/0	100					iltyda	1 liven	1	
110	10 6.010	100				<u>0</u>	<u>n gra</u>	Juni	1	
						<u> </u>				
										
								<u></u>		
		<u></u> .						www.com/		
Type: C=C	oncentration, D=Depl	etion, RM=	Reduced Matrix.	² Location: I	PL=Pore L	_ining, RC=	Root Chanr	iel, M=Matri	x	
	Indicators: (Applica						Indicators	for Probler	natic Hydric	Solls ^a :
Histosol	(A1)		🖌 Sandy Redo	x (S5)			1 cm N	luck (A9) (L	RR C)	
Histic Ep	pipedon (A2)		Stripped Ma	trix (S6)			2 cm N	luck (A10) (LRR B)	
Black Hi			Loamy Muc					ed Vertic (F		
Hydroge	n Sulfide (A4)		Loamy Gley	•	2)			arent Materi		
	l Layers (A5) (LRR C)	Depleted Mi				Other (Explain in F	(emarks)	
	ck (A9) (LRR D)		Redox Dark							
	Below Dark Surface	(A11)	Depleted Da							
	ark Surface (A12)		Redox Depr)		3 In alterators	af hudraphu	tic vegetation	and
	lucky Mineral (S1)		Vernal Pool	5(F9)					nust be prese	
	Bleyed Matrix (S4)	·····		· · · · · ·	·····		wonand	nyarology n		
	_ayer (if present):									
Type:										No
							a data nam	nine man 40		
Depth (ind	ches):						Hydric Soil	Present?	Yes	NO
Depth (Ind Remarks:	ches):					1	Hydric Soil	Present?	Yes <u>V</u>	NO
	ches):	<u></u>					Hydric Soil	Present?	Yes <u>v</u>	NO
	ches):				Ł.		Hydric Soil	Present?	Yes <u> </u>	ND
	ches):			. <u></u>	Ł.		Hydric Soll	Present?		ND
Remarks:					٤.		Hydric Soll	Present?	Yes <u>v</u>	ND
Remarks: YDROLO	GY				٤.					· · · · · · · · · · · · · · · · · · ·
Remarks: YDROLO Wetland Hyo	GY trology Indicators:		·		٤.		Secon	dary Indicat	ors (2 or more	a required)
Remarks: YDROLO Wetland Hyo	GY	tor is suffic			٤.		<u>Secon</u>	dary Indicat ater Marks	ors (2 or more (B1) (Riverine	e required)
Remarks: YDROLO Wetland Hyd	GY trology Indicators:	tor is suffic	ient) Salt Crust (B11)	L.		<u>Secon</u> Ŵ	dary Indicat ater Marks ediment Dep	ors (2 or more (B1) (Rivering posits (B2) (Ri	e <u>required)</u> e) verine)
Remarks: YDROLO Wetland Hyd Primary Indic Surface	GY trology Indicators: ators (any one indica	tor is suffic			٤,		<u>Secon</u> Ŵ S	dary Indicat ater Marks ediment Dep ift Deposits	ors (2 or more (B1) (Rivering posits (B2) (Ri (B3) (Rivering	e <u>required)</u> e) verine)
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Project/Site: San Digito Creek Post - In	itprim cit	County Oray	me County Sampling Date: 3/14/07
Applicant/Owner: COUNTU OF OVAMIC RE)mp	,	State: <u>CA</u> Sampling Point: 9
		ation Township D	ange: Section 58, T.65, R.9W, SBBM
Landform (hillslope, terrace, etc.): <u>tor slope</u>	JICA Ser	cuon, rownship, R	ange: OCCHON 30, 1:03, K. W, SPIOTT
			_ Long: 33. 656158 Datum: NAD 83
Soil Map Unit Name: OMVU Cluy, dvain			NWI classification: PSC
Are climatic / hydrologic conditions on the site typical for			
Are Vegetation, Soil, or Hydrology	_ significantly dist	urbed? Are	"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology	_ naturally proble	matic? (If n	ieeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site ma	p showing sa	mpling point	locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No		
Hydric Soil Present? Yes	No	Is the Sample	
Wetland Hydrology Present? Yes	No	within a Wetla	and? Yes No
Remarks:			
VEGETATION			
		minant Indicator	Dominance Test worksheet:
Tree Stratum (Use scientific names.) 1. Salix Lasio(CPIS	<u>% Cover</u> Sr	FACW	Number of Dominant Species
- Sally Lasiontro	_ <u>50 _</u>	FALL	That Are OBL, FACW, or FAC: (A)
3			Total Number of Dominant 2
4			Species Across All Strata: (B)
Total Cov	rer: <u>50</u>		Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
Sapling/Shrub Stratum		(TACL)	
1. Baccmvis salicifolia	- 50 - >	I FACW	Prevalence Index worksheet:
2			Total % Cover of:Multiply by:
3			OBL species x 1 = FACW species x 2 =
5			FAC species x 2 =
Total Cov	er: 50		FACU species x 4 =
Herb Stratum			UPL species x 5 =
1			Column Totals: (A) (B)
2,			
3			Prevalence Index = B/A =
4			Hydrophytic Vegetation Indicators: Dominance Test is >50%
5			$ Prevalence Index is \leq 3.0^{1} $
7			Morphological Adaptations ¹ (Provide supporting
73			data in Remarks or on a separate sheet)
			Problematic Hydrophytic Vegetation ¹ (Explain)
Noody Vine Stratum	····		
I			¹ Indicators of hydric soil and wetland hydrology must be present.
2	, 		
Total Cove	er:		Hydrophytic Vegetation
% Bare Ground in Herb Stratum % Cove	r of Biotic Crust		Present? Yes <u>No</u>
Remarks:		1	
Wated within 80-for	1 hufle	V	
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3 Army Corps of Engineers			Arid West – Version 11-1-2006

rofile Desc					~	· .	· .		
Depth inches)	Matrix Color (moist)	%	Color (moist)	ox Features %	s Type ¹	Loc ²	Texture	Remarks	
)-16	2,5732	95	10YR 5/8				SiC		
								· ·	
			<u></u>						
				-				-	
			=Reduced Matrix.			e Lining, R			
ydric Soll I	ndicators: (Applic	cable to all	LRRs, unless othe		ed.)			s for Problematic Hydric Solls ³ :	
_ Histosol			Sandy Red					Muck (A9) (LRR C)	
	pipedon (A2)		Stripped Ma					Muck (A10) (LRR B)	
Black Hi			Loamy Muc	-				ced Vertic (F18)	
	n Sulfide (A4)		Loamy Gle		(F2)			Parent Material (TF2)	
	Layers (A5) (LRR	C)	Depleted M	• •			Other	(Explain in Remarks)	
	ck (A9) (LRR D) I Below Dark Surfac	ce (A11)	Z Redox Dark	•					
	rk Surface (A12)		Redox Dep		• •				
	lucky Mineral (S1)		Vernal Pool					of hydrophytic vegetation and	
	leyed Matrix (S4)							hydrology must be present.	
estrictive L	ayer (if present):	·····							
, ype,								<u>م</u>	
D 0 "							Hudria Call	Present? Vac V	
	hes):						Hydric Soll	I Present? Yes <u>No</u> No	
Depth (inc emarks:							Hydric Soll	I Present? Yes <u> No </u> No <u> </u>	
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							Hydric Soll	I Present? Yes <u>No</u> No	
					Ľ		Hydric Soil	I Present? Yes <u>No</u> No	
emarks:	hes):				بر		Hydric Soll	I Present? Yes <u>No</u> No	
emarks: DROLOG	GY				بر			I Present? Yes No	
DROLO etland Hyd	hes): GY irology Indicators:				بر		Seco	ndary Indicators (2 or more require	ed)
emarks: DROLO etland Hyd	hes): GY irology Indicators: ators (any one indic		cient)		٠ ٤		<u>Seco</u>	ndary Indicators (2 or more require Vater Marks (B1) (Riverine)	
emarks: DROLO etland Hyd imary Indic	hes): GY irology Indicators: ators (any one indic Water (A1)		cient) Salt Crust		۰.		<u>Seco</u> V	ndary Indicators (2 or more require Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)	
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Project/Site: San Dialo Creek Post - In	aterim o	ity/County: Oray	me County Sampling Date: 4/11/07
Applicant/Owner: <u>COUVITY OF CHAMAE KI</u>	JIND		State: <u>CA</u> Sampling Point: <u>10</u>
Ivestigator(s): R. BPCK, L. See, W. Sc	alter s	ection, Township, R	ange: Section 58, T.65, R.9W, SBBI
andform (hillslope, terrace, etc.): <u>+ervace</u>	L	ocal relief (concave	, convex, none): <u>CONCAVE</u> Slope (%): <u>2</u>
			Long: 33. 654908 Datum: NAD 83
oil Map Unit Name: OMNI CLUU, drain			NWI classification: R2UBHX
re climatic / hydrologic conditions on the site typical for			(if no, explain in Remarks.)
re Vegetation, Soil, or Hydrology	-		
			"Normal Circumstances" present? Yes <u>No</u> No
re Vegetation, Soil, or Hydrology SUMMARY OF FINDINGS – Attach site ma			needed, explain any answers in Remarks.) locations, transects, important features, etc.
	No	· · · · ·	
Hydric Soil Present? Yes	No	Is the Sample	
Wetland Hydrology Present? Yes	No	within a Wetla	and? Yes No
Remarks:			
EGETATION			· · · · · · · · · · · · · · · · · · ·
		Dominant Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Use scientific names.)		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)
Total Cc	ver:		Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)
Sapling/Shrub Stratum			That Are OBL, FACW, or FAC: (A/B)
Baccharis Salicifolia		V FACW	Prevalence Index worksheet:
2			Total % Cover of: Multiply by:
8. 			OBL species x 1 =
l,			FACW species $70 \times 2 = 140$
·			FAC species X 3 =
ierb Stratum .	ver: <u>70</u>		FACU species x 4 = UPL species 30 x 5 = 50
Brassica nigra	30	/ NI	Column Totals: 100 (A) 290 (B)
<u></u>			
·			Prevalence index = $B/A = 2.9$
· .			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)
Total Cov Voody Vine Stratum	/er: <u>30</u>		
			¹ Indicators of hydric soil and wetland hydrology must
	· · · · · · · · · · · · · · · · · · ·		be present.
Total Cov	/er:		Hydrophytic
			Vegetation /
6 Bare Ground in Herb Stratum % Cov		•	Present? Yes <u>V</u> No
emarks:			
· · ·			

US Army Corps of Engineers

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 $\left(\begin{array}{c} \end{array} \right)$

Arid West - Version 11-1-2006

		or confirm the absence of indicators.)	
Depth <u>Matrix</u> (inches) Color (moist) %	Redox Features Color (moist) % Type ¹	Loc ² Texture Remarks	
0-12 10YR 413 100		Sand	
· · · · · · · · · · · · · · · · · · ·			
		-	
and a second			
Type: C=Concentration, D=Depletion, RM=F	Reduced Matrix. ² Location: PL=Port	e Lining, RC=Root Channel, M=Matrix.	
ydric Soll Indicators: (Applicable to all L	RRs, unless otherwise noted.)	indicators for Problematic Hydric Solls 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)		
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:			1
Depth (inches):		Hydric Soil Present? Yes No _	<u> </u>
emarks:	2. 		
/DROLOGY /etland Hydrology Indicators: rimary Indicators (any one indicator is suffici Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	ent) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Secondary Indicators (2 or more require Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7)	
/DROLOGY /etland Hydrology Indicators: rimary Indicators (any one Indicator is suffici Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	ent) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I		
/DROLOGY /etland Hydrology Indicators: rimary Indicators (any one Indicator is suffici Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	ent) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8)	
/DROLOGY /etland Hydrology Indicators: rimary Indicators (any one Indicator Is suffici 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)	ent) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4 Recent Iron Reduction in Plow		
/DROLOGY /etland Hydrology Indicators: rimary Indicators (any one Indicator Is suffici 	ent) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4 Recent Iron Reduction in Plow	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) ed Soils (C6) Saturation Visible on Aerial Imager Shallow Aquitard (D3)	
/DROLOGY /etland Hydrology Indicators: rimary Indicators (any one indicator is suffici 	ent) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4 Recent Iron Reduction in Plow		
/DROLOGY /etland Hydrology Indicators: rimary Indicators (any one Indicator Is suffici 	ent) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4 Recent Iron Reduction in Plowe Other (Explain in Remarks)	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 Imager Shallow Aquitard (D3) FAC-Neutral Test (D5)	
/DROLOGY /etland Hydrology Indicators: rimary Indicators (any one Indicator is suffici 	ient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4 Recent Iron Reduction in Plower Other (Explain in Remarks) o Depth (inches):	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 Imager Shallow Aquitard (D3) FAC-Neutral Test (D5)	
/DROLOGY /etland Hydrology Indicators: rimary Indicators (any one Indicator is suffici _ Surface Water (A1) _ High Water Table (A2) _ Saturation (A3) _ Water Marks (B1) (Nonriverine) _ Sediment Deposits (B2) (Nonriverine) _ Drift Deposits (B3) (Nonriverine) _ Drift Deposits (B3) (Nonriverine) _ Surface Soil Cracks (B6) _ Inundation Visible on Aerial Imagery (B7) _ Water-Stained Leaves (B9) Ield Observations: wrface Water Present? Yes No //ater Table Present? Yes No		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 Imager Shallow Aquitard (D3) FAC-Neutral Test (D5)	
/DROLOGY /etland Hydrology Indicators: rimary Indicators (any one Indicator is suffici _ Surface Water (A1) _ High Water Table (A2) _ Saturation (A3) Water Marks (B1) (Nonriverine) _ Sediment Deposits (B2) (Nonriverine) _ Drift Deposits (B3) (Nonriverine) _ Drift Deposits (B3) (Nonriverine) _ Surface Soll Cracks (B6) _ Inundation Visible on Aerial Imagery (B7) _ Water-Stained Leaves (B9) teld Observations: urface Water Present? Yes No //ater Table Present? Yes No		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 Imager Shallow Aquitard (D3) FAC-Neutral Test (D5)	
/DROLOGY /etland Hydrology Indicators: rimary Indicators (any one Indicator Is suffici _Surface Water (A1) _High Water Table (A2) _Saturation (A3) _Water Marks (B1) (Nonriverine) _Sediment Deposits (B2) (Nonriverine) _Drift Deposits (B3) (Nonriverine) _Surface Soil Cracks (B6) _Inundation Visible on Aerial Imagery (B7) _Water-Stained Leaves (B9) teld Observations: urface Water Present? Yes No /ater Table Present? Yes No /aturation Present? Yes No	ient)Salt Crust (B11)Biotic Crust (B12)Aquatic Invertebrates (B13)Hydrogen Sulfide Odor (C1)Oxidized Rhizospheres along IPresence of Reduced Iron (C4Recent Iron Reduction in PloweOther (Explain in Remarks)Other (Explain in Remarks)Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Living Roots (C3) Thin Muck Surface (C7)) Crayfish Burrows (C8) ed Soils (C6) Saturation Visible on Aerial Imager	
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//DROLOGY /etland Hydrology Indicators: rimary Indicators (any one Indicator is sufficing) 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 Not /ater Table Present? Yes Not /ater Table Present? Yes Not //ater Table Present? Yes Not <	ient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4 Recent Iron Reduction in Plowe Other (Explain in Remarks) Depth (inches): Depth (inches): Depth (inches): Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Living Roots (C3) Thin Muck Surface (C7)) Crayfish Burrows (C8) ed Soils (C6) Saturation Visible on Aerial Imager	
//DROLOGY //etland Hydrology Indicators: rimary Indicators (any one indicator is sufficing)	ient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4 Recent Iron Reduction in Plowe Other (Explain in Remarks) Depth (inches): Depth (inches): Depth (inches): Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Living Roots (C3) Thin Muck Surface (C7)) Crayfish Burrows (C8) ed Soils (C6) Saturation Visible on Aerial Imager	

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Project/Site: San Digito Creek Post - Int	prim	Citv/Coun	ty: Oray	ne County Sampling Date: 4/11/07
Applicant/Owner: COUNTULOF OraME RDY			· /·	State: CA Sampling Point: 11
			ownship Ra	ange: Settion 58, T. 65, P. 9W, SBBM
Landform (hillslope, terrace, etc.): TOPS UD-C				
				Long: 33.654768 Datum: NAD 83
Soil Map Unit Name: OMNI Clay, drain				NWI classification: <u>R2UBH</u>
Are climatic / hydrologic conditions on the site typical for thi				
Are Vegetation, Soil, or Hydrology				"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology				eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map	snowing	sampli	ng point i	locations, transects, important features, etc.
	lo	ls t	he Sample	d Area 🕢
	lo	wit	hin a Wetla	nd? Yes No
	lo			
Remarks:				
				· · · ·
L				
VEGETATION				
Tree Stratum (Use scientific names.)	Absolute % Cover		it Indicator ? <u>Status</u>	Dominance Test worksheet: Number of Dominant Species 2
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 Sapling/Shrub Stratum	•			That Are OBL, FACW, or FAC: 100 (A/B)
	20	\checkmark	OBL	Prevalence Index worksheet:
2. Barchans sallafolia	20	\checkmark	FAW	Total % Cover of: Multiply by:
3.				OBL species x 1 =
4				FACW species x 2 =
5				FAC species x 3 =
Total Cover	: 40			FACU species x 4 =
<u>Herb Stratum</u> 1. SCIVPUS SSP.	40	\checkmark	OBL	UPL species x 5 = Column Totals: (A)(B)
2 Brassica nigra	10	¥	NT	
3. socoma menzilisii V. Vernonicides	10		FAC+	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	1.2			Problematic Hydrophytic Vegetation ¹ (Explain)
Total Cover: Woody Vine Stratum				
1				Indicators of hydric soil and wetland hydrology must
2				be present.
Total Cover:				Hydrophytic
% Bare Ground in Herb Stratum % Cover	of Biotic Cr	ust		Vegetation Present? Yes <u>No</u> No
Remarks:				

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Profile Description: (Describe to t	ine depth nee				or contirm	i ine abser	ice of Indica	1015.)	
Depth <u>Matrix</u> (inches) Color (moist)	% Co	Redo: lor (moist)	x Features %		Loc ²	Texture		Remarks	
						Sand		Romanas	
	100			······					
5-16 10YR32 0	15 10	TR 6/8	5		PL	San	1		· · · · · · · · · · · · · · · · · · ·
· · ·									
	······							•	
					······	<u></u>	,		
Type: C=Concentration, D=Depletic					e Lining, R				
lydric Soll Indicators: (Applicable				ed.)				lematic Hydric	Solis":
Histosol (A1)		Sandy Redo	x (S5)				n Muck (A9)		
Histic Epipedon (A2)		_ Stripped Ma	• •				n Muck (A10		
Black Histic (A3)		_ Loamy Muck	-				luced Vertic	• •	
Hydrogen Sulfide (A4)		_ Loamy Gley		(F2)			Parent Mat		
Stratified Layers (A5) (LRR C)		_ Depleted Ma	• •			Oth	er (Explain i	n Remarks)	
1 cm Muck (A9) (LRR D)		Redox Dark	•	,					
Depleted Below Dark Surface (A	.11)	_ Depleted Da		• •					
Thick Dark Surface (A12)		Redox Depr		-8)		3	61 1		
Sandy Mucky Mineral (S1)		_ Vernál Pools	s (F9)					hytic vegetation	
Sandy Gleyed Matrix (S4)					· · · · ·	wetia	na nyarolog	y must be pres	ent.
testrictive Layer (if present):									
Туре:									
Depth (inches):						Hydric S	oil Present	? Yes <u>V</u>	No
emarks:									
emarks;									
emarks.				,					
emarks.				٤					
emarks.				Ľ.			·		
				٤			<u>, , , , , , , , , , , , , , , , , , , </u>		. :
YDROLOGY				٤		Set	condary India	cators (2 or mo	re required)
YDROLOGY Vetland Hydrology Indicators:	is sufficiently			<i>ک</i> ر		Sec	~	cators (2 or mo	
YDROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicator	is sufficient)			<u>)_</u>			Water Mark	(s (B1) (Riverir	ne)
YDROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicator Surface Water (A1)	is sufficient)	Salt Crust (,	کے			Water Mark Sediment D	cs (B1) (Riverir Deposits (B2) (F	ne) Riverine)
YDROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicator	is sufficient)	Salt Crust (Biotic Crust	,	کے			Water Mark Sediment D Drift Depos	ks (B1) (Riverir Deposits (B2) (F its (B3) (Riveri	ne) Riverine)
YDROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicator Surface Water (A1)	is sufficient)	Biotic Crust	(B12) ertebrates	; (B13)			Water Mark Sediment I Drift Depos Drainage P	cs (B1) (Riverir Deposits (B2) (F its (B3) (Riveri atterns (B10)	ne) Riverine) ne)
YDROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicator Surface Water (A1) High Water Table (A2)		Biotic Crust	(B12) ertebrates	; (B13)			Water Mark Sediment I Drift Depos Drainage P	ks (B1) (Riverir Deposits (B2) (F its (B3) (Riveri	ne) Riverine) ne)
YDROLOGY Vetland Hydrology Indicators: rimary Indicators (any one Indicator Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)		Biotic Crust Aquatic Inv Hydrogen S	(B12) ertebrates Sulfide Ode	: (B13) or (C1)	iving Root		Water Mark Sediment I Drift Depos Drainage P Dry-Season	cs (B1) (Riverir Deposits (B2) (F its (B3) (Riveri atterns (B10) n Water Table (ne) Riverine) ne)
YDROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicator Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonrive	erine)	Biotic Crust Aquatic Inv Hydrogen S Oxidized Rł	(B12) ertebrates Sulfide Ode nizosphere	: (B13) or (C1) ès along L		ts (C3)	Water Mark Sediment I Drift Depos Drainage P Dry-Season Thin Muck	(s (B1) (Riverir Deposits (B2) (F its (B3) (Riveri atterns (B10) n Water Table (Surface (C7)	ne) Riverine) ne)
YDROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicator Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriver Drift Deposits (B3) (Nonriverine)		Biotic Crust Aquatic Inv Hydrogen S Oxidized Ri Presence o	(B12) ertebrates Sulfide Ode hizosphere f Reduced	: (B13) or (C1) ès along L d Iron (C4))	ts (C3)	Water Mark Sediment D Drift Depos Drainage P Dry-Season Thin Muck Crayfish Bu	cs (B1) (Riverir Deposits (B2) (F Lits (B3) (Riveri latterns (B10) In Water Table (Surface (C7) Irrows (C8)	ne) Riverine) ne) C2)
YDROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicator 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)		Biotic Crust Aquatic Inv Hydrogen S Oxidized Rł Presence o Recent Iron	(B12) ertebrates Sulfide Ode nizosphere f Reduceo Reductio	; (B13) or (C1) ès along L i Iron (C4) n in Plowe)	ts (C3)	Water Mark Sediment D Drift Depos Drainage P Dry-Seasoi Thin Muck Crayfish Bu Saturation	ks (B1) (Riverin Deposits (B2) (F its (B3) (Riverin tatterns (B10) In Water Table (Surface (C7) Inrows (C8) Visible on Aeria	ne) Riverine) ne) C2)
YDROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicator Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriver Drift Deposits (B3) (Nonriverine) Surface Soll Cracks (B6) Inundation Visible on Aerial Imag		Biotic Crust Aquatic Inv Hydrogen S Oxidized Ri Presence o	(B12) ertebrates Sulfide Ode nizosphere f Reduceo Reductio	; (B13) or (C1) ès along L i Iron (C4) n in Plowe)	ts (C3)	Water Mark Sediment D Drift Depos Drainage P Dry-Seasoi Thin Muck Crayfish Bu Saturation Shallow Aq	cs (B1) (Riverin Deposits (B2) (F its (B3) (Riveri eatterns (B10) n Water Table (Surface (C7) irrows (C8) visible on Aeria uitard (D3)	ne) Riverine) ne) C2)
YDROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicator 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 Imag Water-Stained Leaves (B9)		Biotic Crust Aquatic Inv Hydrogen S Oxidized Rł Presence o Recent Iron	(B12) ertebrates Sulfide Ode nizosphere f Reduceo Reductio	; (B13) or (C1) ès along L i Iron (C4) n in Plowe)	ts (C3)	Water Mark Sediment D Drift Depos Drainage P Dry-Seasoi Thin Muck Crayfish Bu Saturation	cs (B1) (Riverin Deposits (B2) (F its (B3) (Riveri eatterns (B10) n Water Table (Surface (C7) irrows (C8) visible on Aeria uitard (D3)	ne) Riverine) ne) C2)
YDROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicator 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 Imag Water-Stained Leaves (B9) Veter Stained Leaves (B9)	erine)	Biotic Crust Aquatic Inv. Hydrogen S Oxidized Rł Presence o Recent Iron Other (Expl	(B12) ertebrates Sulfide Od hizosphere f Reduced Reductio ain in Ren	i (B13) or (C1) is along L i Iron (C4) n in Plowe narks)) ed Soils (C	ts (C3)	Water Mark Sediment D Drift Depos Drainage P Dry-Seasoi Thin Muck Crayfish Bu Saturation Shallow Aq	cs (B1) (Riverin Deposits (B2) (F its (B3) (Riveri eatterns (B10) n Water Table (Surface (C7) irrows (C8) visible on Aeria uitard (D3)	ne) Riverine) ne) C2)
YDROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicator 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 Imag Water-Stained Leaves (B9) Vetace Water Present? Yes	erine)) jery (B7)	Biotic Crust Aquatic Inv. Hydrogen S Oxidized Ri Presence o Recent Iron Other (Expl	(B12) ertebrates Sulfide Odinizosphere f Reduced Reductio ain in Ren	i (B13) or (C1) is along L i Iron (C4) n in Plowe narks)) ed Soils (C	ts (C3)	Water Mark Sediment D Drift Depos Drainage P Dry-Seasoi Thin Muck Crayfish Bu Saturation Shallow Aq	cs (B1) (Riverin Deposits (B2) (F its (B3) (Riveri eatterns (B10) n Water Table (Surface (C7) irrows (C8) visible on Aeria uitard (D3)	ne) Riverine) ne) C2)
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YDROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicator _ 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 Imag _ Water-Stained Leaves (B9) teld Observations: urface Water Present? Yes /ater Table Present? Yes _ aturation Present? Yes	erine)	Biotic Crust Aquatic Invo Hydrogen S Oxidized Ri Presence o Recent Iron Other (Expl Depth (inch Depth (inch	(B12) ertebrates Sulfide Ode nizosphere f Reducec Reductio ain in Ren nes): nes):	: (B13) or (C1) es along L b Iron (C4) n in Plowe narks)) ed Soils (C 	ts (C3)	Water Mark Sediment I Drift Depos Drainage P Dry-Seasoi Thin Muck Crayfish Bu Saturation V Shallow Aq FAC-Neutra	ss (B1) (Riverin Deposits (B2) (F Deposits (B2) (F its (B3) (Riveri atterns (B10) h Water Table (Surface (C7) irrows (C8) Visible on Aeria uitard (D3) al Test (D5)	ne) Riverine) ne) C2) Il Imagery (C9
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YDROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicator 	erine) pery (B7) No No ge, monitoring	Biotic Crust Aquatic Invo Hydrogen S Oxidized Ri Presence o Recent Iron Other (Expl Depth (inch Depth (inch	(B12) ertebrates Sulfide Ode nizosphere f Reducec Reductio ain in Ren nes): nes):	: (B13) or (C1) es along L b Iron (C4) n in Plowe narks)) ed Soils (C 	ts (C3)	Water Mark Sediment I Drift Depos Drainage P Dry-Seasoi Thin Muck Crayfish Bu Saturation V Shallow Aq FAC-Neutra	ss (B1) (Riverin Deposits (B2) (F Deposits (B2) (F its (B3) (Riveri atterns (B10) h Water Table (Surface (C7) irrows (C8) Visible on Aeria uitard (D3) al Test (D5)	ne) Riverine) ne) C2) Il Imagery (C9
YDROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicator Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Uniface Soil Cracks (B6) Inundation Visible on Aerial Imag Water-Stained Leaves (B9) Ield Observations: urface Water Present? Yes /ater Table Present? Yes aturation Present? Yes escribe Recorded Data (stream gaugets)	erine) pery (B7) No No ge, monitoring	Biotic Crust Aquatic Invo Hydrogen S Oxidized Ri Presence o Recent Iron Other (Expl Depth (inch Depth (inch	(B12) ertebrates Sulfide Ode nizosphere f Reducec Reductio ain in Ren nes): nes):	: (B13) or (C1) es along L b Iron (C4) n in Plowe narks)) ed Soils (C 	ts (C3)	Water Mark Sediment I Drift Depos Drainage P Dry-Seasoi Thin Muck Crayfish Bu Saturation V Shallow Aq FAC-Neutra	ss (B1) (Riverin Deposits (B2) (F Deposits (B2) (F its (B3) (Riveri atterns (B10) h Water Table (Surface (C7) irrows (C8) Visible on Aeria uitard (D3) al Test (D5)	ne) Riverine) ne) C2) Il Imagery (C9
YDROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicator 	erine) pery (B7) No No ge, monitoring	Biotic Crust Aquatic Invo Hydrogen S Oxidized Ri Presence o Recent Iron Other (Expl Depth (inch Depth (inch	(B12) ertebrates Sulfide Ode nizosphere f Reducec Reductio ain in Ren nes): nes):	: (B13) or (C1) es along L b Iron (C4) n in Plowe narks)) ed Soils (C 	ts (C3)	Water Mark Sediment I Drift Depos Drainage P Dry-Seasoi Thin Muck Crayfish Bu Saturation V Shallow Aq FAC-Neutra	ss (B1) (Riverin Deposits (B2) (F Deposits (B2) (F its (B3) (Riveri atterns (B10) h Water Table (Surface (C7) irrows (C8) Visible on Aeria uitard (D3) al Test (D5)	ne) Riverine) ne) C2) Il Imagery (C9
YDROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicator 	erine) pery (B7) No No ge, monitoring	Biotic Crust Aquatic Invo Hydrogen S Oxidized Ri Presence o Recent Iron Other (Expl Depth (inch Depth (inch	(B12) ertebrates Sulfide Ode nizosphere f Reducec Reductio ain in Ren nes): nes):	: (B13) or (C1) es along L b Iron (C4) n in Plowe narks)) ed Soils (C 	ts (C3)	Water Mark Sediment I Drift Depos Drainage P Dry-Seasoi Thin Muck Crayfish Bu Saturation V Shallow Aq FAC-Neutra	ss (B1) (Riverin Deposits (B2) (F Deposits (B2) (F its (B3) (Riveri atterns (B10) h Water Table (Surface (C7) irrows (C8) Visible on Aeria uitard (D3) al Test (D5)	ne) Riverine) C2) Il Imagery (C9
VDROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicator 	erine) pery (B7) No No ge, monitoring	Biotic Crust Aquatic Invo Hydrogen S Oxidized Ri Presence o Recent Iron Other (Expl Depth (inch Depth (inch	(B12) ertebrates Sulfide Ode nizosphere f Reducec Reductio ain in Ren nes): nes):	: (B13) or (C1) es along L b Iron (C4) n in Plowe narks)) ed Soils (C 	ts (C3)	Water Mark Sediment I Drift Depos Drainage P Dry-Seasoi Thin Muck Crayfish Bu Saturation V Shallow Aq FAC-Neutra	ss (B1) (Riverin Deposits (B2) (F Deposits (B2) (F its (B3) (Riveri atterns (B10) h Water Table (Surface (C7) irrows (C8) Visible on Aeria uitard (D3) al Test (D5)	ne) Riverine) C2) Il Imagery (C9

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Project/Site: San Diago Creek Post - Interim City/Count Applicant/Owner: OUVAL of Orange RDMD Investigator(s): R. Beck, L. Ste, W. Salter Section, T Landform (hillslope, terrace, etc.): Cotslop C Local relie Subregion (LRR): LRR C Local Soliton Local relie Soil Map Unit Name: OMAL CLay, drained Are climatic / hydrologic conditions on the site typical for this time of year? Yes A Are Vegetation , or Hydrology significantly disturbed? Are Vegetation , or Hydrology naturally problematic? SUMMARY OF FINDINGS – Attach site map showing sampling	State: CA Sampling Point: 24 "ownship, Range: State: CA Sampling Point: 24 "ownship, Range: State: CA Sampling Point: 24 ef (concave, convex, none): CONCAVE Slope (%): 1 G 4 4 Long: 33. 464245 Datum: NAD 83
Hydrophytic Vegetation Present? Yes No Is the set of t	he Sampled Area hin a Wetland? Yes <u>No</u>
Wetland Hydrology Present? Yes <u>Ves</u> No Remarks:	
VEGETATION	· · · · · · · · · · · · · · · · · · ·
Tree Stratum (Use scientific names.) Absolute Dominan 1. Sally. ADOALVIGII 85 V	OBL That Are OBL, FACW, or FAC: (A)
3	Total Number of Dominant (B)
4 Total Cover:	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum	Total % Cover of: Multiply by: OBL species x 1 =
4 5 Total Cover:	FACW species x 2 = FAC species x 3 = FACU species x 4 =
<u>Herb Stratum</u> 1. <u>Brassica hugva</u> ID	UPL species x 5 = NL Column Totals: (A) (B)
3.	Prevalence Index is ≤3.0'
8	Problematic Hydrophytic Vegetation ¹ (Explain)
1	
Total Cover: % Bare Ground in Herb Stratum % Cover of Biotic Crust	Hydrophytic Vegetation Present? Yes No
Rémarks:	

-----, '

	confirm the absence of indicators.)
Depth <u>Matrix</u> <u>Redox Features</u> (inches) Color (moist) % <u>Color (moist)</u> % <u>Type¹</u>	Loc ² Texture Remarks
0-7 2.5r 4/3 100	Sand
	RC sardy loan
Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore L 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)	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)	•
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:	· · · · · · · · · · · · · · · · · · ·
Depth (inches):	Hydric Soil Present? Yes No V
emarks:	
/DROLOGY	
/DROLOGY /etland Hydrology Indicators:	Secondary Indicators (2 or more required)
/etland Hydrology Indicators:	Secondary Indicators (2 or more required) ————————————————————————————————————
/etland Hydrology Indicators: rimary Indicators (any one indicator is sufficient)	
/etland Hydrology Indicators: rimary Indicators (any one indicator is sufficient) Surface Water (A1) Salt Crust (B11)	
/etland Hydrology Indicators: rimary Indicators (any one indicator is sufficient) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12)	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) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
/etland 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)
/etland 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) ing Roots (C3) Thin Muck Surface (C7)
/etland 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) Thin Muck Surface (C7) Crayfish Burrows (C8)
/etland 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) Thin Muck Surface (C7) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C8)
/etland 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) Thin Muck Surface (C7) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3)
/etland 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) Thin Muck Surface (C7) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C8)
/etland 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) Thin Muck Surface (C7) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3)
/etland 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) Thin Muck Surface (C7) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3)
/etland 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) ing Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C3 Shallow Aquitard (D3) FAC-Neutral Test (D5)
/etland 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) Thin Muck Surface (C7) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3)
/etland 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) ing Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No
/etland 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) ing Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No
/etland 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) ing Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No
/etland 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) ing Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No
/etland 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) ing Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No
/etland 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) ing Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No
/etland 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) ing Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No

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Project/site: San Digio Creek Post - Interim city/coun	by Orame County sampling Date: 4/11/07
Applicant/Owner: COUNTU OF OVERVICE ROMD	State: CA Sampling Point: 3
Investigator(s): R. BPCK, L. See, W. Salter Section,	
Landform (hillslope, terrace, etc.): <u>TEWACE</u> Local reli	
Subregion (LRR): <u>LRR C</u> Lat: <u>-117, 846</u>	942 Long: <u>33. 654232</u> Datum: <u>NAD 83</u>
Soil Map Unit Name: OMNI CLUY, drained	NWI classification: <u>P24SCx</u>
Are climatic / hydrologic conditions on the site typical for this time of year? Yes _	
Are Vegetation, Soil, or Hydrology significantly disturbed	
Are Vegetation, Soil, or Hydrology naturally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampli	ng point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Is t	
Hydric Soil Present? Yes V No	the Sampled Area
Wetland Hydrology Present? Yes No Wil	hin a Wetland? Yes 🔨 No
Remarks:	
	a about I t updaw
Heavy leaf matter on ground surface	a about 1.5 marks
J	· · · · · · · · · · · · · · · · · · ·
EGETATION	t Indicator Dominance Test worksheet:
Absolute Dominar <u>Tree Stratum</u> (Use scientific names.) <u>% Cover_Species</u>	
1. Saliy apodimili 100 V	
2	
3	Total Number of Dominant
4	Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
Sapling/Shrub Stratum	Mat Ale OBL, FACIN, OF FAC/OC_ (AB)
1	
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	UPL species x 5 =
	(A) (B)
)	 Prevalence index = B/A =
3	
·	Hydrophytic Vegetation Indicators:
),	
	Prevalence Index is ≤3.01
, 	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
	Problematic Hydrophytic Vegetation ¹ (Explain)
Total Cover:	
Voody Vine Stratum	¹ Indicators of hydric soil and wetland hydrology must
	be present.
	Hydrophytic
Total Cover:	Vegetation
% Bare Ground in Herb Stratum % Cover of Biotic Crust	Present? Yes <u>No</u>
Remarks:	
• •	

 $\left(\begin{array}{c} \end{array} \right)$

. .

SOIL	h was de dée de sumant the inv	diastar ar confirm	the shearce of	Sampling Point: <u>13</u>
Profile Description: (Describe to the depti		dicator of commin	the absence of	indicators.)
Depth <u>Matrix</u> (inches) Color (moist) %	Redox Features Color (moist) %	Type ¹ Loc ²	Texture	Remarks
20 10210			clay	
3-12 10YR413 95	10YR416 5_	<u> </u>	sand _	
10YR312 95	10YR46 5_	PL	clay_	
an a			J	
-	·			
				· · · · · · · · · · · · · · · · · · ·
		······		
Type: C=Concentration, D=Depletion, RM=I	Reduced Matrix. ² Location:	PL=Pore Lining, RC	C=Root Channel,	Problematic Hydric Solis ³ :
lydric Soll Indicators: (Applicable to all L		1.)		
Histosol (A1)	🖌 Sandy Redox (S5)			k (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S6)			k (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (and a second second	Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F	-2)	L-1.1.1.1.1.1	nt Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	C 1	Other (EX	plain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark Surface (Fe Depleted Dark Surface	•		
 Depleted Below Dark Surface (A11) Thick Dark Surface (A12) 	Redox Depressions (F8			
Sandy Mucky Mineral (S1)	Vernal Pools (F9)		³ Indicators of I	ydrophytic vegetation and
Sandy Gleyed Matrix (S4)				drology must be present.
Restrictive Layer (if present):		· · · · · · · · · · · · · · · · · · ·		
Type:				/
· / F · · ·	-			esent? Yes V No
			Hydric Soll Pri	
Depth (inches): Remarks: SECOND NORIZON (NTCK	emixed with s	sand and	Hydric Soil Pro	
Remarks: SECOND NORL200 INTER YDROLOGY Vetland Hydrology Indicators: Primary Indicators (any one indicator is suffic Surface Water (A1)	ient) Salt Crust (B11)	sand and	<u>Seconda</u> Wate Sedi	<u>v Indicators (2 or more required)</u> r Marks (B1) (Riverine) nent Deposits (B2) (Riverine)
Remarks: SECOND NORL200 (NHCK YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one Indicator is suffic Surface Water (A1) High Water Table (A2)	ient) Salt Crust (B11) Biotic Crust (B12)		<u>Seconda</u> <u>Wate</u> Sedi Drift	<u>y Indicators (2 or more required)</u> r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine)
Remarks: SECOND NORL200 (NHCK YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is suffic 	ient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates ((B13)	<u>Seconda</u> <u>— Wate</u> <u>— Sedi</u> <u>— Drift</u> <u>— Drair</u>	<u>v Indicators (2 or more required)</u> r Marks (B1) (Riverine) nent Deposits (B2) (Riverine)
Remarks: SECCYCO NORL 200 (NHCR YDROLOGY Netland Hydrology Indicators: Primary Indicators (any one Indicator is suffic — Surface Water (A1) — High Water Table (A2) — Saturation (A3) — Water Marks (B1) (Nonriverline)	ient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (Hydrogen Sulfide Odo	(B13) r (C1)	<u>Seconda</u> <u></u>	<u>y Indicators (2 or more required)</u> r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2)
Remarks: SECOND NORL200 (NHCK YDROLOGY Netland Hydrology Indicators: Primary Indicators (any one indicator is suffic 	ient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (Hydrogen Sulfide Odo Oxidized Rhizosphere:	(B13) r (C1) s along Living Roots	Secondaa Wate Sedi Drift Drift Dry-3 s (C3)Thin	y Indicators (2 or more required) r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7)
Remarks: Second NORL200 (NER YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is suffici Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	ient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (Hydrogen Sulfide Odo Oxidized Rhizosphere: Presence of Reduced	(B13) r (C1) s along Living Roots Iron (C4)	Secondaa Wate Sedii Drift Drair Dry-s s (C3)Thin Cray	<u>γ Indicators (2 or more required)</u> r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Pattems (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8)
Remarks: Second NORL200 YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one Indicator is sufficing) 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)	ient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (Hydrogen Sulfide Odo Oxidized Rhizosphere Presence of Reduced Recent Iron Reduction	(B13) r (C1) s along Living Roots Iron (C4) i in Plowed Solls (Cl	Seconda Seconda Sedi Drift Drift S (C3) Cray 6) S (C3)	y Indicators (2 or more required) r Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) mage Pattems (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) ration Visible on Aerial Imagery (C9)
Remarks: Second NORL200 (NER YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficing Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Ysediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7)	ient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (Hydrogen Sulfide Odo Oxidized Rhizosphere Presence of Reduced Recent Iron Reduction	(B13) r (C1) s along Living Roots Iron (C4) i in Plowed Solls (Cl	Secondaa Secondaa Sediu Drift Drift Drift S (C3) Thin Cray 6) Satu Shall	y Indicators (2 or more required) In Marks (B1) (Riverine) Inent Deposits (B2) (Riverine) Deposits (B3) (Riverine) Jage Pattems (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) Tation Visible on Aerial Imagery (C9) ow Aquitard (D3)
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Remarks: Second NORL20N (Ntck YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficing) 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 N Water Table Present? Yes N	ient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (Hydrogen Sulfide Odo Oxidized Rhizosphere: Presence of Reduced Recent Iron Reduction 0 Other (Explain in Remining) 0 Depth (inches):	(B13) r (C1) s along Living Roots Iron (C4) in Plowed Soils (Ct arks)	<u>Seconda</u> 	y Indicators (2 or more required) In Marks (B1) (Riverine) Inent Deposits (B2) (Riverine) Deposits (B3) (Riverine) Jage Pattems (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) Tation Visible on Aerial Imagery (C9) ow Aquitard (D3)
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Remarks: Second NORL200 (Ntck YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) 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 N Saturation Present? Yes N Saturatio	ient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (Hydrogen Sulfide Odo Oxidized Rhizosphere: Presence of Reduced Recent Iron Reduction Other (Explain in Remined) Other (Explain in Remined) OEDPTh (inches): Depth (inches): Depth (inches):	(B13) r (C1) s along Living Roots Iron (C4) in Plowed Soils (Cr arks) 	Seconda Seconda Seconda Sedi Drift Drair Dry-3 s (C3) Thin Cray 6) Shall FAC hd Hydrology Pr	y Indicators (2 or more required) r Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) mage Pattems (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ow Aquitard (D3) Neutral Test (D5)
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Remarks: Second NORL20N (Ntck YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficing) 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 N Vater Table Present? Yes N Saturation Pres	ient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (Hydrogen Sulfide Odo Oxidized Rhizosphere: Presence of Reduced Recent Iron Reduction Other (Explain in Remine) Other (Explain in Remine) Other (inches): Depth (inches): Depth (inches): Depth (inches):	(B13) r (C1) s along Living Roots Iron (C4) in Plowed Soils (Ct arks) Wetlan ious inspections), if	Seconda Seconda Seconda Sedi Drift Drair Dry-3 s (C3) Thin Cray 6) Shall FAC hd Hydrology Pr	y Indicators (2 or more required) r Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) mage Pattems (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ow Aquitard (D3) Neutral Test (D5)
Remarks: Second NORL20M (Ntck YDROLOGY Vetland Hydrology Indicators: Primary Indicators (any one indicator is sufficing) 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) Vield Observations: Surface Water Present? Yes N Vater Table Present? Yes N Saturation Present? Yes N Sa	ient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (Hydrogen Sulfide Odo Oxidized Rhizosphere: Presence of Reduced Recent Iron Reduction Other (Explain in Remine) Other (Explain in Remine) Other (inches): Depth (inches): Depth (inches): Depth (inches):	(B13) r (C1) s along Living Roots Iron (C4) in Plowed Soils (Ct arks) Wetlan ious inspections), if	Seconda Seconda Seconda Sedi Drift Drair Dry-3 s (C3) Thin Cray 6) Shall FAC hd Hydrology Pr	y Indicators (2 or more required) r Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) mage Pattems (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) ration Visible on Aerial Imagery (C9) ow Aquitard (D3) Neutral Test (D5)
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US Army Corps of Engineers

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Project/Site: San Dieno Creek Post - Intr Applicant/Owner: COUVAU OF OPPME RDW Investigator(s): R. Beck, L. See, W. Salt	10 CV Sec	tion, Township, Ra	state: <u>CA</u> sampling Point: <u>14</u> nge: <u>SCC. 58, T. 65, P. 9W, SBBM</u>
Soil Map Unit Name: Omni Clay, drain	_ Lat: <u>-117, 8</u> ed	548453	_ Long: <u>33. US3240</u> Datum: <u>NAD 83</u> NWI classification: <u>2USCx</u>
Are climatic / hydrologic conditions on the site typical for this Are Vegetation, Soil, or Hydrology si Are Vegetation, Soil, or Hydrology n	ignificantly distu	irbed? Are "	(If no, explain in Remarks.) Normal Circumstances" present? Yes <u></u> No eeded, explain any answers in Remarks.)
Hydric Soil Present? Yes No	o	Is the Sampled	Area
Wetland Hydrology Present? Yes <u>V</u> No Remarks:)		
VEGETATION			······································
Tree Stratum (Use scientific names.) 1. <u>Saliy lasi (PPIS</u>		minant Indicator ecies? <u>Status</u> FACW	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3			Total Number of Dominant Species Across All Strata:(B)
Total Cover: <u>Sapling/Shrub Stratum</u> 1. Bacchans Salicifolia		FACW	Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B) Prevalence Index worksheet;
2		······	Total % Cover of: Multiply by: OBL species x 1 =
4 5			FACW species x 2 = FAC species x 3 =
Total Cover: 1. <u>Brassica Nigra</u>		NI	FACU species x 4 = UPL species x 5 = Column Totals: (A)
2			Prevalence Index = B/A = Hydrophytic Vegetation Indicators:
45 6			✓ Dominance Test is >50% Prevalence Index is ≤3.01
7 8 Total Cover:			 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum 1.			¹ Indicators of hydric soil and wetland hydrology must be present.
Z Total Cover: W Bare Ground in Herb Stratum % Cover a			Hydrophytic Vegetation Present? Yes <u>No</u>
Remarks:			

.

Profile Des	cription: (Describe)	o the dep	th needed to docu	ment the l	ndicator	or confiri	m the abs	ence o	findicat	ors.)	
Depth	<u>Matrix</u> Color (moist)	%	Color (moist)	ox Feature: %	s Type ¹	Loc ²	Textu			Remar	ke
nches)	IDYR43			70			San			Kernar	N3
0-0-		100	IN PHL		0		• ••••••••••••••••••••••••••••••••••••		1 1 100 001		
0-12	107R312	95	10YR4/6		PL		. siity	u	<u>y loa</u> r		
·····	•	<u> </u>				••••••					
يەربەر بەر بىر بىر بىر بىر بىر بىر بىر بىر بىر بى								<u> </u>			
Type: C=C	Concentration, D=Depl	etion, RM=	=Reduced Matrix.	² Location	: PL=Por	e Lining, F	RC=Root C	hanne	I, M=Mat	rix.	•
lydric Soll	Indicators: (Applica	ble to all	LRRs, unless othe	rwise note	ed.)		Indica	tors fo	or Proble	matic Hyd	ric Solis ³ :
Histosc			Sandy Rec						ick (A9) (-	
	pipedon (A2)		Stripped M						ick (A10) d Vertic (I		
	listic (A3) en Sulfide (A4)		Loamy Mu Loamy Gle	-			Constant Second		ent Mater		
	ell Sullide (A4) ed Layers (A5) (LRR C	<u>۱</u>	Depleted N	-	(12)					Remarks)	
	uck (A9) (LRR D)	,	Z Redox Dar	• •	F6)		•		e	,	
	d Below Dark Surface	(A11)	Depleted D	•							
	ark Surface (A12)		Redox Dep		-8)		2				
	Mucky Mineral (S1)		Vernal Poo	ls (F9)						ytic vegetat	
	Gleyed Matrix (S4)						wei	iand n	yarology	must be pre	esent.
	Layer (if present):										A
Type:							1				
Depth (in	ich ec)						Hydric	Soil P	resent?	Yes 🗸	No
	iches):						Hydric	Soil P	resent?	Yes 🗸	No
	nches):				L		Hydric	Soil P	resent?	Yes 🗸	No
Remarks:					Ł						
Remarks: YDROLC	DGY drology Indicators:				٤.			econda	ary Indica	tors (2 or n	nore required)
Remarks: YDROLC	DGY	tor is suffi	cient)		٤.		<u>S</u>	econda Wat	ary Indica	tors (2 or n (B1) (Rive	nore required) rine)
YDROLC Vetland Hy Primary Indi	DGY drology Indicators:	tor is suffi	cient)	(B11)	٤.		<u>S</u>	econda Wat Sed	ary Indica ter Marks liment De	ttors (2 or m (B1) (Rive sposits (B2)	nore required) rine) (Riverine)
YDROLC Yetland Hy Primary Indi Surface High W	DGY drology Indicators: cators (any one indica Water (A1) ater Table (A2)	tor is suffi	Salt Crust	st (B12)			<u>S</u>	econda Wat Sed Drift	ary Indica ter Marks liment De	ttors (2 or m (B1) (Rive eposits (B2) s (B3) (Rive	nore required) rine) (Riverine) erine)
YDROLC YDROLC Vetland Hy Primary Indi Surface High W	DGY drology Indicators: cators (any one indica Water (A1) ater Table (A2)	tor is suffi	Salt Crust Biotic Cru Aquatic In	st (B12) vertebrates	s (B13)		<u>S</u>	econda Wat Sed Drift Dra	ary Indica ter Marks liment De t Depositi inage Pai	ttors (2 or m (B1) (Rive posits (B2) s (B3) (Rive ttems (B10)	nore required) rine) (Riverine) erine)
YDROLC YDROLC Vetland Hy Primary Indi Surface High W: Saturati Water N	DGY drology Indicators: cators (any one Indica Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverir	ne)	Salt Crust Biotic Cru Aquatic In Hydrogen	st (B12) vertebrates Sulfide Od	s (B13) or (C1)		<u>S</u>	econda Ŵat Sed Driff Dra Dry-	ary Indica ter Marks liment De t Deposit inage Pal -Season	tors (2 or m (B1) (Rive posits (B2) s (B3) (Rive ttems (B10) Water Table	nore required) rine) (Riverine) erine)
YDROLC YDROLC Vetland Hy Primary Indi Surface High W: Saturati Water N Sedime	DGY drology Indicators: cators (any one indica Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonrivertir nt Deposits (B2) (Non	ne) riverine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized F	st (B12) vertebrates Sulfide Od Rhizospher	s (B13) or (C1) ès along l			econda Ŵat Sed Driff Dra Dry- Thir	ary Indica ter Marks liment De t Deposit inage Pal -Season ' n Muck St	tors (2 or m (B1) (Rive posits (B2) s (B3) (Rive ttems (B10) Water Table urface (C7)	nore required) rine) (Riverine) erine)
Primarks: YDROLC Vetland Hy Primary Indi Surface High Wi Saturati Water M Sedime Z Drift De	DGY drology Indicators: <u>cators (any one indica</u> Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverir nt Deposits (B2) (Non posits (B3) (Nonriveri	ne) riverine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized f Presence	st (B12) vertebrates Sulfide Od Rhizospher of Reduced	s (B13) or (C1) ės along l d iron (C4)		econda Ŵat Drift Dra Dry- Thir Cra	ary Indica ter Marks liment De t Deposit inage Pal -Season ' n Muck So yfish Burn	ttors (2 or m (B1) (Rive posits (B2) s (B3) (Rive ttems (B10) Water Table urface (C7) rows (C8)	nore required) rine) (Riverine) erine) e (C2)
Primarks: YDROLC Vetland Hy Primary Indi Surface High Wi Saturati Water N Sedime Drift De Surface	DGY drology Indicators: cators (any one indica Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverir nt Deposits (B2) (Non posits (B3) (Nonriveri Soil Cracks (B6)	ne) riverine) ne)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized F Presence Recent Irc	st (B12) vertebrates Sulfide Od Rhizospher of Reduced on Reductio	s (B13) or (C1) es along l d Iron (C4) n in Plowe)		econda Wat Driff Dry- Thir Cra Satu	ary Indica ter Marks liment De t Depositi inage Pai -Season ' n Muck Si yfish Burn uration Vi	tors (2 or m (B1) (Rive posits (B2) s (B3) (Rive tterns (B10) Water Table urface (C7) rows (C8) sible on Ae	nore required) rine) (Riverine) erine)
Primarks: YDROLC Vetland Hy Primary Indi Surface High Wi Saturati Water N Sedime Drift De Surface Inundati	DGY drology Indicators: cators (any one indica Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverir nt Deposits (B2) (Non posits (B3) (Nonriveri Soil Cracks (B6) ion Visible on Aerial In	ne) riverine) ne)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized F Presence Recent Irc	st (B12) vertebrates Sulfide Od Rhizospher of Reduced on Reductio	s (B13) or (C1) es along l d Iron (C4) n in Plowe)		econda Wat Driff Dra Dry- Thir Cra Satu Sha	ary Indica ter Marks liment De t Deposit inage Pat Season 'n Muck Si yfish Burn uration Vi Ilow Aqui	ttors (2 or m (B1) (Rive posits (B2) s (B3) (Rive tterns (B10) Water Table unface (C7) rows (C8) sible on Ae tard (D3)	nore required) rine) (Riverine) erine) e (C2)
Primarks: YDROLC Vetland Hy Primary Indi Surface High Wi Saturati Water N Sedime Drift De Surface Inundati Water-S	DGY drology Indicators: cators (any one indica Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverir nt Deposits (B2) (Non posits (B3) (Nonriveri Soil Cracks (B6) ion Visible on Aerial In Stained Leaves (B9)	ne) riverine) ne)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized F Presence Recent Irc	st (B12) vertebrates Sulfide Od Rhizospher of Reduced on Reductio	s (B13) or (C1) es along l d Iron (C4) n in Plowe)		econda Wat Driff Dra Dry- Thir Cra Satu Sha	ary Indica ter Marks liment De t Deposit inage Pat Season 'n Muck Si yfish Burn uration Vi Ilow Aqui	tors (2 or m (B1) (Rive posits (B2) s (B3) (Rive tterns (B10) Water Table urface (C7) rows (C8) sible on Ae	nore required) rine) (Riverine) erine) e (C2)
YDROLC Vetland Hy Primary Indi Surface High W Saturati Sedime Drift De Surface Inundati Water-S Ield Obser	DGY drology Indicators: cators (any one indica Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverir nt Deposits (B2) (Non posits (B3) (Nonriveri Soil Cracks (B6) ion Visible on Aerial In Stained Leaves (B9) vations:	ne) riverine) ne) nagery (B7	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized F Presence Recent Irc Other (Exp	st (B12) vertebrates Sulfide Od Rhizospher of Reduced on Reduction Dain in Rer	s (B13) or (C1) es along l d Iron (C4 on in Plowe marks)) ed Soils ((econda Wat Driff Dra Dry- Thir Cra Satu Sha	ary Indica ter Marks liment De t Deposit inage Pat Season 'n Muck Si yfish Burn uration Vi Ilow Aqui	ttors (2 or m (B1) (Rive posits (B2) s (B3) (Rive tterns (B10) Water Table unface (C7) rows (C8) sible on Ae tard (D3)	nore required) rine) (Riverine) erine) e (C2)
YDROLC Vetland Hy Primary Indi Surface High Wi Saturati Water M Sedime Z Drift De Surface Inundati Water-S Vater-S Field Obser	DGY drology Indicators: cators (any one indica Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverir nt Deposits (B2) (Non posits (B3) (Nonriveri Soil Cracks (B6) ion Visible on Aerial In Stained Leaves (B9) vations: ter Present? Ye	ne) riverine) ne) nagery (B7	Salt Crust Biotic Cru Aquatic In Aquatic In Hydrogen Oxidized F Presence Recent Irc Other (Exp No	st (B12) vertebrates Sulfide Od Rhizospher of Reduced on Reductio blain in Rer ches):	s (B13) or (C1) es along l d Iron (C4) on in Plowe marks)) ed Soils ((econda Wat Driff Dra Dry- Thir Cra Satu Sha	ary Indica ter Marks liment De t Deposit inage Pat Season 'n Muck Si yfish Burn uration Vi Ilow Aqui	ttors (2 or m (B1) (Rive posits (B2) s (B3) (Rive tterns (B10) Water Table unface (C7) rows (C8) sible on Ae tard (D3)	nore required) rine) (Riverine) erine) e (C2)
Primarks: YDROLC Vetland Hy Primary Indi Surface High Wi Saturati Saturati Vater M Drift De Drift De Drift De Surface Inundati Water-S Teld Obser Surface Water Vater Table	DGY drology Indicators: cators (any one indica Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriveri nt Deposits (B2) (Non posits (B3) (Nonriveri Soil Cracks (B6) ion Visible on Aerial In Stained Leaves (B9) vations: er Present? Ye Present? Ye	ne) riverine) nagery (B7 s N s N	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized F Presence Recent Irc Other (Exp No Depth (in Depth (in	st (B12) vertebrates Sulfide Od Rhizospher of Reduced on Reductio blain in Rer ches): ches):	s (B13) or (C1) es along l d iron (C4 on in Piowe narks)) ed Soils ((econda Wat Sed Driff Dra Dry- Cra: Satu Sha FAC	ary Indica ter Marks liment De t Depositi Season 'n Muck St yfish Burn Jration Vi Ilow Aqui 2-Neutral	ttors (2 or m (B1) (Rive posits (B2) s (B3) (Rive tterns (B10) Water Table urface (C7) rows (C8) sible on Ae tard (D3) Test (D5)	nore required) rine) (Riverine) erine) e (C2) rial Imagery (C
Primarks: YDROLC Vetland Hy Primary Indi Surface High Wi Saturati Sedime Drift De Surface Inundati Water-S Tield Obser Surface Wat Vater Table Saturation P includes ca	DGY drology Indicators: cators (any one indica Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverir nt Deposits (B2) (Non posits (B3) (Nonriveri Soil Cracks (B6) ion Visible on Aerial In Stained Leaves (B9) vations: ter Present? Ye Present? Ye present? Ye present? Ye	ne) riverine) ne) s (B7 s N s N s N	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Irc Other (Exp Other (Exp Other (Exp Depth (in No Depth (in Depth (in	st (B12) vertebrates Sulfide Od Rhizospher of Reduced on Reductic blain in Rer ches): ches):	s (B13) or (C1) es along l d Iron (C4 narks)) ed Soils (/ Wetl:		econda Wat Driff Dra Dry Thir Cra Satu Sha FAC	ary Indica ter Marks liment De t Depositi Season 'n Muck St yfish Burn Jration Vi Ilow Aqui 2-Neutral	ttors (2 or m (B1) (Rive posits (B2) s (B3) (Rive tterns (B10) Water Table urface (C7) rows (C8) sible on Ae tard (D3) Test (D5)	nore required) rine) (Riverine) erine) e (C2)
Primarks: YDROLC Wetland Hy Primary Indi Surface High Wi Saturati Water N Sedime Inundati Water-S Field Obser Surface Water Surface Water Surf	DGY drology Indicators: cators (any one indica Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriveri nt Deposits (B2) (Non posits (B3) (Nonriveri Soil Cracks (B6) ion Visible on Aerial In Stained Leaves (B9) vations: er Present? Ye Present? Ye	ne) riverine) ne) s (B7 s N s N s N	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Irc Other (Exp Other (Exp Other (Exp Depth (in No Depth (in Depth (in	st (B12) vertebrates Sulfide Od Rhizospher of Reduced on Reductic blain in Rer ches): ches):	s (B13) or (C1) es along l d Iron (C4 narks)) ed Soils (/ Wetl:		econda Wat Driff Dra Dry Thir Cra Satu Sha FAC	ary Indica ter Marks liment De t Depositi Season 'n Muck St yfish Burn Jration Vi Ilow Aqui 2-Neutral	ttors (2 or m (B1) (Rive posits (B2) s (B3) (Rive tterns (B10) Water Table urface (C7) rows (C8) sible on Ae tard (D3) Test (D5)	nore required) rine) (Riverine) erine) e (C2) rial Imagery (C
Primarks: YDROLC Wetland Hy Primary Indi Surface High Wi Saturati Water N Sedime Inundati Water-S Field Obser Surface Water Surface Water Surf	DGY drology Indicators: cators (any one indica Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverir nt Deposits (B2) (Non posits (B3) (Nonriveri Soil Cracks (B6) ion Visible on Aerial In Stained Leaves (B9) vations: ter Present? Ye Present? Ye present? Ye present? Ye	ne) riverine) ne) s (B7 s N s N s N	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized F Presence Recent Irc Other (Exp No Depth (in No Depth (in No Depth (in Nitoring well, aerial)	st (B12) vertebrates Sulfide Od Rhizospher of Reduced n Reductio plain in Rer ches): ches): photos, pre	s (B13) or (C1) ės along l d Iron (C4 n in Plowe narks) vious insp) ed Solls ((econda Wat Driff Dra Dry Thir Cra Satu Sha FAC	ary Indica ter Marks liment De t Depositi Season 'n Muck St yfish Burn Jration Vi Ilow Aqui 2-Neutral	ttors (2 or m (B1) (Rive posits (B2) s (B3) (Rive tterns (B10) Water Table urface (C7) rows (C8) sible on Ae tard (D3) Test (D5)	nore required) rine) (Riverine) erine) e (C2) rial Imagery (C
Primarks: YDROLC Wetland Hy Primary Indi Surface High Wi Saturati Water N Sedime Inundati Water-S Field Obser Surface Water Surface Water Surf	DGY drology Indicators: cators (any one indica Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverir nt Deposits (B2) (Non posits (B3) (Nonriveri Soil Cracks (B6) ion Visible on Aerial In Stained Leaves (B9) vations: ter Present? Ye Present? Ye present? Ye present? Ye	ne) riverine) ne) s (B7 s N s N s N	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Irc Other (Exp Other (Exp Other (Exp Depth (in No Depth (in Depth (in	st (B12) vertebrates Sulfide Od Rhizospher of Reduced n Reductio plain in Rer ches): ches): photos, pre	s (B13) or (C1) ės along l d Iron (C4 n in Plowe narks) vious insp) ed Solls ((econda Wat Driff Dra Dry Thir Cra Satu Sha FAC	ary Indica ter Marks liment De t Depositi Season 'n Muck St yfish Burn Jration Vi Ilow Aqui 2-Neutral	ttors (2 or m (B1) (Rive posits (B2) s (B3) (Rive tterns (B10) Water Table urface (C7) rows (C8) sible on Ae tard (D3) Test (D5)	nore required) rine) (Riverine) erine) e (C2) rial Imagery (C
Primarks: YDROLC Wetland Hy Primary Indi Surface High Wi Saturati Water N Sedime Z Drift De Surface Inundati Water-S Surface Water-S Surface Wate	DGY drology Indicators: cators (any one indica Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverir nt Deposits (B2) (Non posits (B3) (Nonriveri Soil Cracks (B6) ion Visible on Aerial In Stained Leaves (B9) vations: ter Present? Ye Present? Ye present? Ye present? Ye	ne) riverine) ne) s (B7 s N s N s N	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized F Presence Recent Irc Other (Exp No Depth (in No Depth (in No Depth (in Nitoring well, aerial)	st (B12) vertebrates Sulfide Od Rhizospher of Reduced n Reductio plain in Rer ches): ches): photos, pre	s (B13) or (C1) ės along l d Iron (C4 n in Plowe narks) vious insp) ed Solls ((econda Wat Driff Dra Dry Thir Cra Satu Sha FAC	ary Indica ter Marks liment De t Depositi Season 'n Muck St yfish Burn Jration Vi Ilow Aqui 2-Neutral	ttors (2 or m (B1) (Rive posits (B2) s (B3) (Rive tterns (B10) Water Table urface (C7) rows (C8) sible on Ae tard (D3) Test (D5)	nore required) rine) (Riverine) erine) e (C2) rial Imagery (C
Primarks: YDROLC Wetland Hy Primary Indi Surface High Wi Saturati Water N Sedime Z Drift De Surface Inundati Water-S Surface Water-S Surface Wate	DGY drology Indicators: cators (any one indica Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverir nt Deposits (B2) (Non posits (B3) (Nonriveri Soil Cracks (B6) ion Visible on Aerial In Stained Leaves (B9) vations: ter Present? Ye Present? Ye present? Ye present? Ye	ne) riverine) ne) s (B7 s N s N s N	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized F Presence Recent Irc Other (Exp No Depth (in No Depth (in No Depth (in Nitoring well, aerial)	st (B12) vertebrates Sulfide Od Rhizospher of Reduced n Reductio plain in Rer ches): ches): photos, pre	s (B13) or (C1) ės along l d Iron (C4 n in Plowe narks) vious insp) ed Solls ((econda Wat Driff Dra Dry Thir Cra Satu Sha FAC	ary Indica ter Marks liment De t Depositi Season 'n Muck St yfish Burn Jration Vi Ilow Aqui 2-Neutral	ttors (2 or m (B1) (Rive posits (B2) s (B3) (Rive tterns (B10) Water Table urface (C7) rows (C8) sible on Ae tard (D3) Test (D5)	nore required) rine) (Riverine) erine) e (C2) rial Imagery (C
YDROLC Vetland Hy Primary Indi Surface High Wi Saturati Water M Sedime Z Drift De Surface Inundati Water-S lield Obser vurface Wat vater Table aturation P ncludes ca escribe Re	DGY drology Indicators: cators (any one indica Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverir nt Deposits (B2) (Non posits (B3) (Nonriveri Soil Cracks (B6) ion Visible on Aerial In Stained Leaves (B9) vations: ter Present? Ye Present? Ye present? Ye present? Ye	ne) riverine) ne) s (B7 s N s N s N	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized F Presence Recent Irc Other (Exp No Depth (in No Depth (in No Depth (in Nitoring well, aerial)	st (B12) vertebrates Sulfide Od Rhizospher of Reduced n Reductio plain in Rer ches): ches): photos, pre	s (B13) or (C1) ės along l d Iron (C4 n in Plowe narks) vious insp) ed Solls ((econda Wat Driff Dra Dry Thir Cra Satu Sha FAC	ary Indica ter Marks liment De t Depositi Season 'n Muck St yfish Burn Jration Vi Ilow Aqui 2-Neutral	ttors (2 or m (B1) (Rive posits (B2) s (B3) (Rive tterns (B10) Water Table urface (C7) rows (C8) sible on Ae tard (D3) Test (D5)	nore required) rine) (Riverine) erine) e (C2) rial Imagery (C

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Project/site: San Diago Creek Post - Interim	City/County: Oray	me County sampling Date: 4/11/07
Applicant/Owner: COUNTU OF OVAME ROMD		State: CA Sampling Point: 15
Investigator(s): R. BECK, L. See, W. Salter		
Landform (hillslope, terrace, etc.): PODIS ODE		
		Long: 33.1051744 Datum: NAD 83
Soil Map Unit Name: Tidal flats		NWI classification: <u>R2UBHx</u>
Are climatic / hydrologic conditions on the site typical for this time of y	APAT? Yes No	
Are Vegetation, Soil, or Hydrology significanti		• "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally p		needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showin		
Hydrophytic Vegetation Present? Yes No	······	
Hydric Soil Present? Yes No	- Is the Sample	
Wetland Hydrology Present? Yes No 🗸	within a Wetla	
Remarks:		
VEGETATION		
Absolute		Dominance Test worksheet:
Tree Stratum (Use scientific names.) <u>% Cove</u>	r Species? Status	Number of Dominant Species (A)
2		
3.		Species Across All Strata:
4		Percent of Dominant Species
Total Cover;		That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. Bachavis salicifolia90	1 EARIN	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: <u>90</u>	-	FACU species x 4 =
Herb Stratum		UPL species x 5 = (D)
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	-	Problematic Hydrophytic Vegetation ¹ (Explain)
Total Cover: Woody Vine Stratum	-	
1		¹ Indicators of hydric soil and wetland hydrology must
2		be present.
Total Cover:	-	Hydrophytic
% Bare Ground in Herb Stratum % Cover of Biotic C	rust	Vegetation Present? Yes No
Remarks:		1
•		

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rofile Description: (Descri					the absence		···· /	
Depth <u>Matrix</u> inches) Color (moist)			K Features % Type ¹	Loc ²	Texture		Remarks	
					Sand		Tromano	
	3 100					. I- au	<u> </u>	
10YR21	241				silty da	y loan]	
					<i>.</i>	<u> </u>		
				-				
						<u></u>		
Type: C=Concentration, D=D	epletion, RM=Redu	iced Matrix.	² Location: PL=Pc	re Lining, RC	C=Root Chani	nel, M=Matr	iX.	0-11-3.
ydrie Soll Indicators: (App	licable to all LRRs	, unless other	wise noted.)				matic Hydric	5011S :
Histosol (A1)		_ Sandy Redo	x (S5)			Vluck (A9) (L		
Histic Epipedon (A2)		_ Stripped Mat				Muck (A10)	•	
Black Histic (A3)	· · · · ·		y Mineral (F1)			ed Vertic (F		
_ Hydrogen Sulfide (A4)			ed Matrix (F2)			arent Materi		
_ Stratified Layers (A5) (LR	RC)	_ Depleted Ma			Other	(Explain in F	remarks)	
_ 1 cm Muck (A9) (LRR D)			Surface (F6)					
Depleted Below Dark Sun			rk Surface (F7)					
Thick Dark Surface (A12)	, .	_ Redox Depre	• •		³ In dicators	of hudrophy	tic vegetation	and
_ Sandy Mucky Mineral (S1		_ Vernal Pools	((+9)				nust be pres	
Sandy Gleyed Matrix (S4)	and the second				W Charle	i ii yai ology i		
):							
estrictive Layer (if present								1
Type:					u	B	Ven	
		in ver	y few ar	<i>eus</i>	Hydric Soil	Present?	Yes	No
Type: Depth (inches): emarks: POCKETS OF DOR		in ver	y few ar	eus	Hydric Soll	Present?	Yes	_ No
Type: Depth (inches): emarks: POCKERS OF DAK POROLOGY	Ker soil	in ver	y few ar	eus .		·		
Type: Depth (inches): emarks: POCKERS OF DAK /DROLOGY /etland Hydrology Indicato	KA2 Soil	<u> </u>	y few ar	eus .	Secon	ndary Indica	tors (2 or mo	re required)
Type: Depth (inches): emarks: POCKERS OF DOK /DROLOGY /etland Hydrology Indicato rimary Indicators (any one in	KA2 Soil			Las	<u>Seco</u> r	ndary Indica Vater Marks	tors (2 or mo (B1) (Riverir	re required) 1e)
Type: Depth (inches): emarks: POCKERS OF DAK /DROLOGY /etland Hydrology Indicato	KA2 Soil	Salt Crust (B11)	LAS	<u>Seco</u> r V	ndary Indica Vater Marks Sediment De	tors (2 or mo (B1) (Riverin posits (B2) (F	re required) ne) Riverine)
Type: Depth (inches): emarks: POCKERS OF DOK VDROLOGY Vetland Hydrology Indicato rimary Indicators (any one in Surface Water (A1) High Water Table (A2)	KA2 Soil	Salt Crust (Biotic Crust	B11) ((B12)	LAS	<u>Seco</u> r Ŵ S D	ndary Indica Vater Marks Sediment De Vrift Deposits	tors (2 or mo (B1) (Riverir posits (B2) (F s (B3) (Riveri	re required) ne) Riverine)
Type: Depth (inches): emarks: POCKERS OF DOK /DROLOGY /etland Hydrology Indicato rimary Indicators (any one in Surface Water (A1) High Water Table (A2) Saturation (A3)	KAL SOT rs: dicator is sufficient)	Salt Crust (Biotic Crust Aquatic Inv	B11) ((B12) ertebrates (B13)	LUS	<u>Seco</u> r v s D D	ndary Indica Vater Marks Sediment De Prift Deposits Prainage Pat	tors (2 or mo (B1) (Riverir posits (B2) (F s (B3) (Riveri tems (B10)	re required) ne) Riverine) ne)
Type: Depth (inches): emarks: POCKERS OF DOK /DROLOGY /etland Hydrology Indicato rimary Indicators (any one in Surface Water (A1) High Water Table (A2) Saturation (A3)	KAL SOT rs: dicator is sufficient)	Salt Crust (Biotic Crust Aquatic Inv Hydrogen S	B11) i (B12) ertebrates (B13) Sulfide Odor (C1)		<u>Secor</u> v s D D	ndary Indica Vater Marks Sediment De prift Deposits Trainage Pat Try-Season N	tors (2 or mo (B1) (Riverir posits (B2) (F s (B3) (Riveri tems (B10) Water Table (re required) ne) Riverine) ne)
Type: Depth (inches): emarks: POCKERS OF DOK /DROLOGY /etland Hydrology Indicato rimary Indicators (any one in Surface Water (A1) High Water Table (A2) Saturation (A3)	VER SOT rs: dicator is sufficient) verine)	Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized Ri	B11) i (B12) ertebrates (B13) Sulfide Odor (C1) hizospheres along	Living Root	<u>Secor</u> V S D D D s (C3) T	ndary Indica Vater Marks Sediment De prift Deposits Trainage Pat Try-Season N hin Muck St	tors (2 or mo (B1) (Riverir posits (B2) (F s (B3) (Riveri tems (B10) Nater Table (urface (C7)	re required) ne) Riverine) ne)
Type: Depth (inches): emarks: POCKERS OF DOK /DROLOGY /etland Hydrology Indicato rimary Indicators (any one in 	Verine) verine) verine)	Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized Ri Presence o	B11) i (B12) ertebrates (B13) Sulfide Odor (C1) hizospheres along f Reduced Iron (C	Living Root	<u>Secor</u> Ŵ S D D D s (C3) T	ndary Indica Vater Marks Sediment De Drift Deposits Drainage Pat Dry-Season N hin Muck St Crayfish Burr	tors (2 or mo (B1) (Riverir posits (B2) (F s (B3) (Riveri tems (B10) Nater Table (urface (C7) ows (C8)	re required) ne) RiverIne) ne) C2)
Type: Depth (inches): emarks: POCKERS OF DOK /DROLOGY /etland Hydrology Indicato rimary Indicators (any one in 	Verine) verine) verine)	Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized Ri Presence o	B11) i (B12) ertebrates (B13) Sulfide Odor (C1) hizospheres along	Living Root	<u>Secor</u> S D D D s (C3) T C 6) S	ndary Indica Vater Marks Sediment De Vrift Deposits Vrainage Pat Dry-Season V hin Muck Su Trayfish Burr Saturation Vi	tors (2 or mo (B1) (Riverir posits (B2) (F s (B3) (Riveri tems (B10) Nater Table (urface (C7) ows (C8) sible on Aeria	re required) ne) RiverIne) ne) C2)
Type: Depth (inches): emarks: POCKERS OF DOK /DROLOGY /etland Hydrology Indicato rimary Indicators (any one in 	Verlne) verlne) verlne)	Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence o Recent Iron	B11) i (B12) ertebrates (B13) Sulfide Odor (C1) hizospheres along f Reduced Iron (C	Living Root 4) wed Solls (C	<u>Secor</u> S D D D s (C3) T C 6) S	ndary Indica Vater Marks Sediment De Drift Deposits Drainage Pat Dry-Season N hin Muck St Crayfish Burr	tors (2 or mo (B1) (Riverir posits (B2) (F s (B3) (Riveri tems (B10) Nater Table (urface (C7) ows (C8) sible on Aeria	re required) ne) RiverIne) ne) C2)
Type: Depth (inches): emarks: POCKERS OF DOK /DROLOGY /etland Hydrology Indicato rimary Indicators (any one in 	Verine) verine) al Imagery (B7)	Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence o Recent Iron	B11) i (B12) ertebrates (B13) Sulfide Odor (C1) hizospherės along f Reduced Iron (C i Reduction in Plo	Living Root 4) wed Solls (C	<u>Secor</u> W D D s (C3)T C 6)S	ndary Indica Vater Marks Sediment De Vrift Deposits Vrainage Pat Dry-Season V hin Muck Su Trayfish Burr Saturation Vi	tors (2 or mo (B1) (Riverir posits (B2) (F s (B3) (Riveri tems (B10) Water Table (Jurface (C7) ows (C8) sible on Aeria tard (D3)	re required) ne) RiverIne) ne) C2)
Type: Depth (inches): emarks: POCKEKS OF DOK /DROLOGY /etland Hydrology Indicato rimary Indicators (any one in 	Verine) verine) al Imagery (B7)	Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence o Recent Iron	B11) i (B12) ertebrates (B13) Sulfide Odor (C1) hizospherės along f Reduced Iron (C i Reduction in Plo	Living Root 4) wed Solls (C	<u>Secor</u> W D D s (C3)T C 6)S	ndary Indica Vater Marks Sediment De Drift Deposits Drainage Pat Dry-Season N hin Muck St Crayfish Burr Saturation Vi shallow Aqui	tors (2 or mo (B1) (Riverir posits (B2) (F s (B3) (Riveri tems (B10) Water Table (Jurface (C7) ows (C8) sible on Aeria tard (D3)	re required) ne) RiverIne) ne) C2)
Type: Depth (inches): emarks: POCKERS OF DOK POROLOGY /etland Hydrology Indicato rimary Indicators (any one in 	VER SOT rs: dicator is sufficient) verine) verine) al Imagery (B7) 3)	Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized Ri Presence o Recent Iron Other (Expl	B11) ertebrates (B13) Sulfide Odor (C1) hizospheres along f Reduced Iron (C Reduction in Plo ain in Remarks)	i Living Root 4) wed Soils (C	<u>Secor</u> W D D s (C3)T C 6)S	ndary Indica Vater Marks Sediment De Drift Deposits Drainage Pat Dry-Season N hin Muck St Crayfish Burr Saturation Vi shallow Aqui	tors (2 or mo (B1) (Riverir posits (B2) (F s (B3) (Riveri tems (B10) Water Table (Jurface (C7) ows (C8) sible on Aeria tard (D3)	re required) ne) RiverIne) ne) C2)
Type: Depth (inches): emarks: POCKEKS OF dak (DROLOGY /etland Hydrology Indicato rimary Indicators (any one in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriv Sediment Deposits (B2) (I Drift Deposits (B3) (Nonriv Surface Soil Cracks (B6) Inundation Visible on Aeri Water-Stained Leaves (B3) ield Observations: urface Water Present?	Verine) al Imagery (B7)	Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized Ri Presence o Recent Iron Other (Expl	B11) i (B12) ertebrates (B13) Sulfide Odor (C1) hizospheres along f Reduced Iron (C I Reduction in Plo ain in Remarks) hes):	I Living Root 4) wed Soils (C	<u>Secor</u> W D D s (C3)T C 6)S	ndary Indica Vater Marks Sediment De Drift Deposits Drainage Pat Dry-Season N hin Muck St Crayfish Burr Saturation Vi shallow Aqui	tors (2 or mo (B1) (Riverir posits (B2) (F s (B3) (Riveri tems (B10) Water Table (Jurface (C7) ows (C8) sible on Aeria tard (D3)	re required) ne) RiverIne) ne) C2)
Type: Depth (inches): emarks: POCKERS OF DOK /DROLOGY /etland Hydrology Indicato rimary Indicators (any one in 	Verine) verine)	Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized RI Presence o Recent Iron Other (Expl	B11) i (B12) ertebrates (B13) Sulfide Odor (C1) hizospheres along f Reduced Iron (C i Reduction in Plo ain in Remarks) hes):	I Living Root 4) wed Soils (C	Secor V S D	ndary Indica Vater Marks Sediment De Drift Deposits Drainage Pat Dry-Season N hin Muck St Crayfish Burr Saturation Vi Shallow Aqui AC-Neutral	tors (2 or mo (B1) (Riverir posits (B2) (F s (B3) (Riveri tems (B10) Nater Table (urface (C7) ows (C8) sible on Aeria tard (D3) Test (D5)	re required) ne) RiverIne) ne) C2) al Imagery (CS
Type: Depth (inches): emarks: POCKERS OF DOW /DROLOGY /etland Hydrology Indicato rimary Indicators (any one in 	Verine) Verine) al Imagery (B7) Yes No Yes No Yes No	Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized Rl Presence o Recent Iron Other (Expl Depth (inc Depth (inc Depth (inc	B11) i (B12) ertebrates (B13) Sulfide Odor (C1) hizospherės along f Reduced Iron (C Reduction in Plo ain in Remarks) hes): hes):	Living Root: 4) wed Soils (C	<u>Secor</u> D 	ndary Indica Vater Marks Sediment De Drift Deposits Drainage Pat Dry-Season N hin Muck St Crayfish Burr Saturation Vi Shallow Aqui AC-Neutral	tors (2 or mo (B1) (Riverir posits (B2) (F s (B3) (Riveri tems (B10) Nater Table (urface (C7) ows (C8) sible on Aeria tard (D3) Test (D5)	re required) ne) RiverIne) ne) C2) al Imagery (CS
Type: Depth (inches): emarks: POCKERS OF DOW /DROLOGY /etland Hydrology Indicato rimary Indicators (any one in 	Verine) Verine) al Imagery (B7) Yes No Yes No Yes No	Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized Rl Presence o Recent Iron Other (Expl Depth (inc Depth (inc Depth (inc	B11) i (B12) ertebrates (B13) Sulfide Odor (C1) hizospherės along f Reduced Iron (C Reduction in Plo ain in Remarks) hes): hes):	Living Root: 4) wed Soils (C	<u>Secor</u> D 	ndary Indica Vater Marks Sediment De Drift Deposits Drainage Pat Dry-Season N hin Muck St Crayfish Burr Saturation Vi Shallow Aqui AC-Neutral	tors (2 or mo (B1) (Riverir posits (B2) (F s (B3) (Riveri tems (B10) Nater Table (urface (C7) ows (C8) sible on Aeria tard (D3) Test (D5)	re required) ne) RiverIne) ne) C2) al Imagery (CS
Type: Depth (inches): emarks: POCKERS OF DOK /DROLOGY /etland Hydrology Indicato rimary Indicators (any one in 	Verine) Ver	Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized Rl Presence o Recent Iron Other (Expl Depth (inc Depth (inc Depth (inc	B11) i (B12) ertebrates (B13) Sulfide Odor (C1) hizospherės along f Reduced Iron (C Reduction in Plo ain in Remarks) hes): hes):	Living Root: 4) wed Soils (C	<u>Secor</u> D 	ndary Indica Vater Marks Sediment De Drift Deposits Drainage Pat Dry-Season N hin Muck St Crayfish Burr Saturation Vi Shallow Aqui AC-Neutral	tors (2 or mo (B1) (Riverir posits (B2) (F s (B3) (Riveri tems (B10) Nater Table (urface (C7) ows (C8) sible on Aeria tard (D3) Test (D5)	re required) ne) RiverIne) ne) C2) al Imagery (CC
Type: Depth (inches): emarks: POCKERS OF dark /DROLOGY /etland Hydrology Indicato rimary Indicators (any one in 	Verine) Ver	Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized Rl Presence o Recent Iron Other (Expl Depth (inc Depth (inc Depth (inc	B11) i (B12) ertebrates (B13) Sulfide Odor (C1) hizospherės along f Reduced Iron (C Reduction in Plo ain in Remarks) hes): hes):	Living Root: 4) wed Soils (C	<u>Secor</u> D 	ndary Indica Vater Marks Sediment De Drift Deposits Drainage Pat Dry-Season N hin Muck St Crayfish Burr Saturation Vi Shallow Aqui AC-Neutral	tors (2 or mo (B1) (Riverir posits (B2) (F s (B3) (Riveri tems (B10) Nater Table (urface (C7) ows (C8) sible on Aeria tard (D3) Test (D5)	re required) ne) RiverIne) ne) C2) al Imagery (CC
Type: Depth (inches): emarks: POCKERS OF DOK /DROLOGY /etland Hydrology Indicato rimary Indicators (any one in 	Verine) Ver	Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized Rl Presence o Recent Iron Other (Expl Depth (inc Depth (inc Depth (inc	B11) i (B12) ertebrates (B13) Sulfide Odor (C1) hizospherės along f Reduced Iron (C Reduction in Plo ain in Remarks) hes): hes):	Living Root: 4) wed Soils (C	<u>Secor</u> D 	ndary Indica Vater Marks Sediment De Drift Deposits Drainage Pat Dry-Season N hin Muck St Crayfish Burr Saturation Vi Shallow Aqui AC-Neutral	tors (2 or mo (B1) (Riverir posits (B2) (F s (B3) (Riveri tems (B10) Nater Table (urface (C7) ows (C8) sible on Aeria tard (D3) Test (D5)	re required) ne) RiverIne) ne) C2) al Imagery (CS
Type: Depth (inches): emarks: POCKERS OF dark /DROLOGY /etland Hydrology Indicato rimary Indicators (any one in 	Verine) Ver	Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized Rl Presence o Recent Iron Other (Expl Depth (inc Depth (inc Depth (inc	B11) i (B12) ertebrates (B13) Sulfide Odor (C1) hizospherės along f Reduced Iron (C Reduction in Plo ain in Remarks) hes): hes):	Living Root: 4) wed Soils (C	<u>Secor</u> D 	ndary Indica Vater Marks Sediment De Drift Deposits Drainage Pat Dry-Season N hin Muck St Crayfish Burr Saturation Vi Shallow Aqui AC-Neutral	tors (2 or mo (B1) (Riverir posits (B2) (F s (B3) (Riveri tems (B10) Nater Table (urface (C7) ows (C8) sible on Aeria tard (D3) Test (D5)	re required) ne) RiverIne) ne) C2) al Imagery (CC
Type: Depth (inches): emarks: POCKERS OF dark /DROLOGY /etland Hydrology Indicato rimary Indicators (any one in 	Verine) Ver	Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized Rl Presence o Recent Iron Other (Expl Depth (inc Depth (inc Depth (inc	B11) i (B12) ertebrates (B13) Sulfide Odor (C1) hizospherės along f Reduced Iron (C Reduction in Plo ain in Remarks) hes): hes):	Living Root: 4) wed Soils (C	<u>Secor</u> D 	ndary Indica Vater Marks Sediment De Drift Deposits Drainage Pat Dry-Season N hin Muck St Crayfish Burr Saturation Vi Shallow Aqui AC-Neutral	tors (2 or mo (B1) (Riverir posits (B2) (F s (B3) (Riveri tems (B10) Nater Table (urface (C7) ows (C8) sible on Aeria tard (D3) Test (D5)	re required) ne) RiverIne) ne) C2) al Imagery (CC

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roject/site: <u>San Dialo Creek Post - Interim</u> city/county: <u>Ora</u> pplicant/Owner: <u>COUNTU OF OraME</u> RDMD	
	State: CA Sampling Point:
Ivestigator(s): R. BPCE, L. SPE, W. Salter Section, Township,	
andform (hillslope, terrace, etc.): <u>terrace</u> Local relief (concav	e, convex, hone): <u>CUMLANE</u> Slope (%):
	Long: <u>33. (51703</u> Datum: <u>NAD 83</u>
oil Map Unit Name: 11061 flats	NWI classification: EIUBL
re climatic / hydrologic conditions on the site typical for this time of year? Yes $_$ No	
re Vegetation, Soil, or Hydrology significantly disturbed? Ar	re "Normal Circumstances" present? Yes 🔽 No
re Vegetation, Soil, or Hydrology naturally problematic? (If	needed, explain any answers in Remarks.)
UMMARY OF FINDINGS – Attach site map showing sampling point	t locations, transects, important features, etc
Hydrophytic Vegetation Present? Yes No Is the Samu	
Hydrio Soil Dresent? Yes No	
Wetland Hydrology Present? Yes No within a Wet	land? Yes NO
Remarks:	
EGETATION Absolute Dominant Indicato	Dominance Test worksheet:
Tree Stratum (Use scientific names.) <u>% Cover Species? Status</u>	
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)
Septing/Shrub Stratum 1. Bacchavis salicifolia 100 V FACU	Prevalence Index worksheet:
	Total % Cover of: Multiply by:
2	OBL species x 1 =
3	FACW species x 2 =
4	FAC species x 3 =
5 Total Cover: 100	FACU species x 4 =
Herb Stratum	UPL species x 5 =
	- Column Totals: (A) (B)
2	_
3	Prevalence Index = B/A =
4	Hydrophytic Vegetation Indicators:
5	Dominance Test is >50%
3	Prevalence Index is ≤3.0 ¹
7,	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
3,	 Problematic Hydrophytic Vegetation¹ (Explain)
Total Cover:	
Noody Vine Stratum	¹ Indicators of hydric soil and wetland hydrology must
·	be present.
	Hydrophytic
· · · · · · · · · · · · · · · · · · ·	Venetation
Cover of Piolo Cruck	Present? Yes <u>No</u> No
% Bare Ground in Herb Stratum % Cover of Biotic Crust	
% Bare Ground in Herb Stratum % Cover of Block Crust Remarks:	

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Profile Des	cription: (Describe	to the de	pth needed to docum			or confirn	n the absend	ce of Indi	cators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	Features (%	s Type ¹	Loc ²	Texture		Remar	Ks
(inches) O-ID	IDYR 33	98	IDYR516	2		PL.	Sandy	Ιοαιλο		10
0-10			10YR5/6	2		<u>FV</u>				
	IOYR32	98	1012016			PL-	<u>sandy</u>	10000	<u>ז</u>	
	• •									
									·	
		- <u>-</u>								
			Reduced Matrix.			e Lining, R	C=Root Cha	nnel, M=N	Aatrix. blematic Hyd	ric Solls ³
•		able to al	LRRs, unless other		÷u.)				Biemane nyu B) (LRR C)	
Histoso	pipedon (A2)		Sandy Redo Stripped Mat					•	10) (LRR B)	
	istic (A3)		Loamy Muck		(F1)			Iced Verti		. 4
	en Sulfide (A4)		Loamy Gleye	•	• •				aterial (TF2)	
	d Layers (A5) (LRR (C)	Depleted Ma						in Remarks)	
	uck (A9) (LRR D)		Redox Dark	• •	F6)					
Deplete	d Below Dark Surfac	e (A11)	Depleted Da	rk Surface	e (F7)					
	ark Surface (A12)		Redox Depre		-8)		a	.		
-	Mucky Mineral (S1)		Vernal Pools	(F9)					phytic vegetal	
	Bleyed Matrix (S4)						wettar	la nyarolo	gy must be pr	
	Layer (if present):									
	21p-pap								(D)/	
emarks:	ches): <u>10 in</u>	ntcrr	mixed the	20UgV	Int		Hydric So	II Presen	t? Yes	No
Remarks: DARK-	enes): <u>10 in</u> ener 501/5 1	ntcer	nixed the	20UgV	rout	-	Hydric So	il Presen	t? Yes	No
Remarks: DARK- YDROLO	ches): <u>10 in</u> ep: 501/s 1 igy	ntcrr	mixed thi	20UGV	Iout	-				No No
Remarks: DCIPK- YDROLO Wetland Hy	ches): <u>10 in</u> (P2 SOILS GY drology Indicators:			20UGV	rout		Sec	ondary Inc		nore required)
Remarks: DCLP YDROLO Vetland Hy Primary Indi	ches): <u>10 in</u> CP SOILS CGY drology Indicators: cators (any one Indic		īcient)		nout	-	<u>Sec</u>	ondary Inc	<u>licators (2 or n</u> rks (B1) (Rive	nore required) rine)
Remarks: DCIP- YDROLO Vetland Hy Primary India	ches): <u>10 in</u> 62 SollS 6 GY drology Indicators: cators (any one indic Water (A1)		īcient) Salt Crust (B11)	Iout		<u>Sec</u>	ondary Inc Water Ma Sediment	licators (2 or n	nore required) rine) (Riverine)
Remarks: DCRP4- YDROLO Vetland Hy Primary Indi- Surface High Wa	ches): <u>ID in</u> P2 S015 PGY drology Indicators: cators (any one indic: Water (A1) ater Table (A2)		īcient) Salt Crust (Biotic Crust	B11) (B12)			<u>Sec</u>	ondary Inc Water Ma Sediment Drift Depo	<u>licators (2 or n</u> rks (B1) (Rive Deposits (B2)	nore required) rine) (Riverine) erine)
Primary India Surface High Wa Saturati	ches): <u>ID in</u> P2 S0IS I PGY drology Indicators: <u>cators (any one Indic</u> : Water (A1) ater Table (A2) on (A3)	ator is sufi	icient) Salt Crust (Biotic Crust Aquatic Inve	B11) (B12) entebrates	; (B13)		<u>Sec</u>	ondary Inc Water Ma Sediment Drift Depc Drainage	licators (2 or n rks (B1) (Rive Deposits (B2) osits (B3) (Rive	nore required) rine) (Riverine) erine)
Primary India Surface High Water N	ches): <u>10 in</u> epsilon	ator is suff	īcient) Salt Crust (Biotic Crust Aquatic Invo Hydrogen S	B11) (B12) entebrates	; (B13) or (C1)		<u>Sec</u>	ondary Inc Water Ma Sediment Drift Depc Drainage Dry-Seaso	licators (2 or n rks (B1) (Rive Deposits (B2) osits (B3) (Rive Patterns (B10 on Water Tabl	nore required) rine) (Riverine) erine)) e (C2)
Primary India Wetland Hy Primary India Surface High Wa Saturati Water N Sedimen	ches): <u>10 in</u> <u>6</u> 2 Solls 1 <u>6</u> G Y drology Indicators: <u>cators (any one indic</u> Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriveri nt Deposits (B2) (Nor	ator is suff ine) nriverine)	icient) Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rt	B11) (B12) ertebrates sulfide Od hizospher	; (B13) or (C1) ès along	Living Roo	<u>Sec</u>	ondary Inc Water Ma Sediment Drift Depc Drainage Dry-Sease Thin Muck	licators (2 or n rks (B1) (Rive Deposits (B2) osits (B3) (Rive Patterns (B10 on Water Tabl	nore required) rine) (Riverine) erine)) e (C2)
Primary India Wetland Hy Primary India Surface High Wa Saturati Water N Sedimel Drift Dep	ches): <u>10 in</u> ef2 SollS [GGY drology Indicators: cators (any one Indic Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverl nt Deposits (B2) (Nor posits (B3) (Nonriverl	ator is suff ine) nriverine)	īcient) Salt Crust (Biotic Crust Aquatic Invo Hydrogen S	B11) (B12) ertebrates iulfide Od nizospher f Reduced	s (B13) or (C1) ès along l d Iron (C4	Living Roo)	<u>Sec</u>	ondary Inc Water Ma Sediment Drift Depc Drainage Dry-Sease Thin Muck Crayfish E	licators (2 or n rks (B1) (Rive Deposits (B2) osits (B3) (Rive Patterns (B10 on Water Tabl & Surface (C7) Burrows (C8)	nore required) rine) (Riverine) erine)) e (C2)
Primary India Wetland Hy Primary India Surface High Wa Saturati Water N Sedimel Drift Del Surface	ches): <u>10 in</u> <u>6</u> 2 Solls 1 <u>6</u> G Y drology Indicators: <u>cators (any one indic</u> Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriveri nt Deposits (B2) (Nor	ator is suff ine) nriverine) ine)	icient) Salt Crust (Biotic Crust Aquatic Inve Hydrogen S Oxidized Rt Presence of Recent Iron	B11) (B12) entebrates iulfide Od hizospher f Reduced Reductic	s (B13) or (C1) ès along l d Iron (C4 n in Plow	Living Roo)	<u>Sec</u>	ondary Inc Water Ma Sediment Drift Depc Drainage Dry-Seaso Thin Muck Crayfish E Saturatior	licators (2 or n rks (B1) (Rive Deposits (B2) osits (B3) (Rive Patterns (B10 on Water Tabl & Surface (C7) Burrows (C8)	nore required) rine) (Riverine) erine)) e (C2)
Primary India Wetland Hy Primary India Surface High Wa Saturati Water N Sedimel Drift Del Surface Inundati	ches): <u>10 in</u> ef2 SollS [ef2 SollS [ef	ator is suff ine) nriverine) ine)	icient) Salt Crust (Biotic Crust Aquatic Inve Hydrogen S Oxidized Rt Presence of Recent Iron	B11) (B12) entebrates iulfide Od hizospher f Reduced Reductic	s (B13) or (C1) ès along l d Iron (C4 n in Plow	Living Roo)	ts (C3)	ondary Inc Water Ma Sediment Drift Depc Drainage Dry-Seaso Thin Muck Crayfish E Saturatior Shallow A	licators (2 or n rks (B1) (Rive Deposits (B2) osits (B3) (Rive Patterns (B10 on Water Tabl c Surface (C7) Burrows (C8) o Visible on Ae	nore required) rine) (Riverine) erine)) e (C2)
Remarks: PCARA YDROLO YDROLO Vetland Hy Primary India Surface High Wat Saturati Water N Sedimei Drift Dei Surface Inundati Water-S	ches): <u>10 in</u> ef2 SollS [ef2 SollS [ef2 SollS [ef2 SollS [ef2 SollS] ef2 SollS [ef2 SollS] ef2 SollS [ef2 SollS] water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverling nt Deposits (B2) (Non posits (B3) (Nonriverling soll Cracks (B6) on Visible on Aerial In stained Leaves (B9) vations:	ator is sufi ine) nriverine) ine) magery (B	icient) Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rt Presence of Recent Iron 7)Other (Expla	B11) (B12) entebrates fulfide Od hizospher f Reduced Reductic ain in Rer	s (B13) or (C1) ės along l d Iron (C4 n in Plow narks)	Living Roo) ed Soils (C	ts (C3)	ondary Inc Water Ma Sediment Drift Depc Drainage Dry-Seaso Thin Muck Crayfish E Saturatior Shallow A	licators (2 or n rks (B1) (Rive Deposits (B2) osits (B3) (Rive Patterns (B10 on Water Tabl c Surface (C7) Burrows (C8) o Visible on Ae quitard (D3)	nore required) rine) (Riverine) erine)) e (C2)
Primary India Wetland Hy Primary India Surface High Wa Saturati Water M Sedimen Drift Den Surface Inundati Water-S ield Obser	ches): <u>10 in</u> ef2 SollS [ef2 SollS [ef2 SollS [ef2 SollS [ef2 SollS] ef2 SollS [ef2 SollS] ef2 SollS [ef2 SollS] water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverling nt Deposits (B2) (Non posits (B3) (Nonriverling soll Cracks (B6) on Visible on Aerial In stained Leaves (B9) vations:	ator is sufi ine) nriverine) ine) magery (B	icient) Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rt Presence of Recent Iron 7)Other (Expla	B11) (B12) entebrates fulfide Od hizospher f Reduced Reductic ain in Rer	s (B13) or (C1) ės along l d Iron (C4 n in Plow narks)	Living Roo) ed Soils (C	ts (C3)	ondary Inc Water Ma Sediment Drift Depc Drainage Dry-Seaso Thin Muck Crayfish E Saturatior Shallow A	licators (2 or n rks (B1) (Rive Deposits (B2) osits (B3) (Rive Patterns (B10 on Water Tabl c Surface (C7) Burrows (C8) o Visible on Ae quitard (D3)	nore required) rine) (Riverine) erine)) e (C2)
Permarks: PCAPF YDROLO YDROLO Vetland Hy Primary Indi- Surface High Wa Saturati Water M Sedimel Drift Del Surface Inundati Water-S ield Obser Purface Wat	ches): <u>10 in</u> ef2 SollS [ef2 SollS [ef2 SollS [ef2 SollS] eff2 drology Indicators: cators (any one Indicators: cators (B1) (Nonriver Soil Cracks (B6) on Visible on Aerial In cators (B9) vations: er Present? yeither (any one Indicators) (any one Indicators) (any one Indicators) (any one Indicators) (any one Indicators) (b) (b) (b) (b) (b) (b) (b) (b) (b) (b)	ator is sufi ine) nriverine) ine) magery (E es es	icient) Salt Crust (Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron 7) Other (Explain No Depth (inch No Depth (inch	B11) (B12) entebrates ulfide Od nizospher f Reducer Reductic ain in Rei nes):	s (B13) or (C1) ės along l d Iron (C4 n in Plow narks)	Living Roo) ed Soils (C	ts (C3)	ondary Inc Water Ma Sediment Drift Depc Drainage Dry-Seaso Thin Muck Crayfish E Saturatior Shallow A FAC-Neut	licators (2 or n rks (B1) (Rive Deposits (B2) osits (B3) (Rive Patterns (B10 on Water Tabl c Surface (C7) Burrows (C8) n Visible on Ae quitard (D3) ral Test (D5)	nore required) rine) (Riverine) erine) e (C2) rial Imagery (C9
Primary India Primary India Primary India Surface High Water Saturati Water N Sedimel Drift Del Surface Inundati Water-S Surface Water Vater Table	ches): <u>10 in</u> ef2 SollS [ef2 SollS [ef2 SollS [ef2 SollS] eff2 drology Indicators: cators (any one Indicators: cators (B1) (Nonriver Soil Cracks (B6) on Visible on Aerial In cators (B9) vations: er Present? yeither (any one Indicators) (any one Indicators) (any one Indicators) (any one Indicators) (any one Indicators) (b) (b) (b) (b) (b) (b) (b) (b) (b) (b)	ator is sufi ine) nriverine) ine) magery (E es es	icient) Salt Crust (Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron 7) Other (Explain No Depth (inch No Depth (inch	B11) (B12) entebrates ulfide Od nizospher f Reducer Reductic ain in Rei nes):	s (B13) or (C1) ės along l d Iron (C4 n in Plow narks)	Living Roo) ed Soils (C	ts (C3)	ondary Inc Water Ma Sediment Drift Depc Drainage Dry-Seaso Thin Muck Crayfish E Saturatior Shallow A FAC-Neut	licators (2 or n rks (B1) (Rive Deposits (B2) osits (B3) (Rive Patterns (B10 on Water Tabl c Surface (C7) Burrows (C8) n Visible on Ae quitard (D3) ral Test (D5)	n <u>ore required)</u> rine) (Riverine) erine) e (C2) rial Imagery (C9
Primary India YDROLO YDROLO YDROLO YDROLO Yetland Hy Primary India Surface High Wa Saturati Water N Sedimel Drift Del Drift Del Surface Inundati Water-S ield Obser Surface Water Vater Table Saturation P Noludes cal	ches): <u>10 in</u> eff2 <u>5015</u> [GY drology Indicators: cators (any one Indic Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriver no Usible on Aerial In itained Leaves (B9) vations: er Present? Ye resent? Ye pillary frince)	ator is suff ine) inei) magery (E es es	Icient) Salt Crust (I Biotic Crust Biotic Crust Aquatic Inversion Hydrogen S Oxidized Rt Presence of Recent Iron Recent Iron 7) Other (Expland) No Depth (inct No Depth (inct	B11) (B12) entebrates fulfide Od hizospher f Reducer Reductic ain in Rer mes): nes):	s (B13) or (C1) ės along l d Iron (C4 n in Plow narks)	Living Roo) ed Soils (C	ts (C3)	ondary Inc Water Ma Sediment Drift Depc Drainage Dry-Seaso Thin Muck Crayfish E Saturatior Shallow A FAC-Neut	licators (2 or n rks (B1) (Rive Deposits (B2) osits (B3) (Rive Patterns (B10 on Water Tabl c Surface (C7) Burrows (C8) o Visible on Ae quitard (D3)	n <u>ore required)</u> rine) (Riverine) erine) e (C2) rial Imagery (C9
Primary India YDROLO YDROLO Vetland Hy Primary India Surface High Wa Saturati Water N Sedimei Drift Del Surface Inundati Water-S Vater Table Saturation P Includes cal	ches): <u>10 in</u> eff2 <u>5015</u> [GY drology Indicators: cators (any one Indic Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriver no Usible on Aerial In itained Leaves (B9) vations: er Present? Ye resent? Ye pillary frince)	ator is suff ine) inei) magery (E es es	icient) Salt Crust (Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron 7) Other (Explain No Depth (inch No Depth (inch	B11) (B12) entebrates fulfide Od hizospher f Reducer Reductic ain in Rer mes): nes):	s (B13) or (C1) ės along l d Iron (C4 n in Plow narks)	Living Roo) ed Soils (C	ts (C3)	ondary Inc Water Ma Sediment Drift Depc Drainage Dry-Seaso Thin Muck Crayfish E Saturatior Shallow A FAC-Neut	licators (2 or n rks (B1) (Rive Deposits (B2) osits (B3) (Rive Patterns (B10 on Water Tabl c Surface (C7) Burrows (C8) n Visible on Ae quitard (D3) ral Test (D5)	n <u>ore required)</u> rine) (Riverine) erine) e (C2) rial Imagery (C9)
Primary India YDROLO YDROLO Vetland Hy Primary India Surface High Wa Saturati Water N Sedimei Drift Del Surface Inundati Water-S Vater Table Saturation P Includes cal	ches): <u>10 in</u> eff2 <u>5015</u> [GY drology Indicators: cators (any one Indic Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriver no Usible on Aerial In itained Leaves (B9) vations: er Present? Ye resent? Ye pillary frince)	ator is suff ine) inriverine) ine) magery (E es es gauge, m	Icient) Salt Crust (I Biotic Crust Biotic Crust Aquatic Inversion Hydrogen S Oxidized Rt Presence of Recent Iron Recent Iron 7) Other (Expland) No Depth (inct No Depth (inct	B11) (B12) ertebrates iulfide Od hizospher f Reduced Reductic ain in Rer nes): nes): nes): notos, pre	s (B13) or (C1) ės along l d Iron (C4 in in Plow marks) vious insp	Living Roo) ed Soils (C Wetla pections), i	ts (C3)	ondary Inc Water Ma Sediment Drift Depc Drainage Dry-Seaso Thin Muck Crayfish E Saturatior Shallow A FAC-Neut	licators (2 or n rks (B1) (Rive Deposits (B2) osits (B3) (Rive Patterns (B10 on Water Tabl c Surface (C7) Burrows (C8) n Visible on Ae quitard (D3) ral Test (D5)	n <u>ore required)</u> rine) (Riverine) erine) e (C2) rial Imagery (C9)
Primary India YDROLO YDROLO Vetland Hy Primary India Surface High Wa Saturati Water N Sedimei Drift Del Surface Inundati Water-S Vater Table Saturation P Includes cal	ches): <u>10 in</u> eff2 <u>5015</u> [GY drology Indicators: cators (any one Indic Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverl nt Deposits (B2) (Nor posits (B3) (Nonriverl Soil Cracks (B6) on Visible on Aerial In itained Leaves (B9) vations: er Present? Ye resent? Ye pillary frince)	ator is suff ine) inriverine) ine) magery (E es es gauge, m	Icient) Salt Crust (I	B11) (B12) ertebrates iulfide Od hizospher f Reduced Reductic ain in Rer nes): nes): nes): notos, pre	s (B13) or (C1) ės along l d Iron (C4 in in Plow marks) vious insp	Living Roo) ed Soils (C Wetla pections), i	ts (C3)	ondary Inc Water Ma Sediment Drift Depc Drainage Dry-Seaso Thin Muck Crayfish E Saturatior Shallow A FAC-Neut	licators (2 or n rks (B1) (Rive Deposits (B2) osits (B3) (Rive Patterns (B10 on Water Tabl c Surface (C7) Burrows (C8) n Visible on Ae quitard (D3) ral Test (D5)	nore required) rine) (Riverine) erine)) e (C2) rial Imagery (C9)
Primary Indi- Primary Indi- Primary Indi- Surface High Wa Saturati Water N Sedimel Drift Del Surface Inundati Water-S Surface Water-S Surface Wate	ches): <u>10 in</u> eff2 <u>5015</u> [GY drology Indicators: cators (any one Indic Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverl nt Deposits (B2) (Nor posits (B3) (Nonriverl Soil Cracks (B6) on Visible on Aerial In itained Leaves (B9) vations: er Present? Ye resent? Ye pillary frince)	ator is suff ine) inriverine) ine) magery (E es es gauge, m	Icient) Salt Crust (I	B11) (B12) ertebrates iulfide Od hizospher f Reduced Reductic ain in Rer nes): nes): nes): notos, pre	s (B13) or (C1) ės along l d Iron (C4 in in Plow marks) vious insp	Living Roo) ed Soils (C Wetla pections), i	ts (C3)	ondary Inc Water Ma Sediment Drift Depc Drainage Dry-Seaso Thin Muck Crayfish E Saturatior Shallow A FAC-Neut	licators (2 or n rks (B1) (Rive Deposits (B2) osits (B3) (Rive Patterns (B10 on Water Tabl c Surface (C7) Burrows (C8) n Visible on Ae quitard (D3) ral Test (D5)	nore required) rine) (Riverine) erine)) e (C2) rial Imagery (C9)
Primary India Primary India Primary India Primary India Surface High Water Saturation Water N Sedimel Drift Del Surface Inundatia Water-S Surface Water-Saturation P Includes cap Describe Re ACRUA	ches): <u>10 in</u> eff2 <u>5015</u> [GY drology Indicators: cators (any one Indic Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverl nt Deposits (B2) (Nor posits (B3) (Nonriverl Soil Cracks (B6) on Visible on Aerial In itained Leaves (B9) vations: er Present? Ye resent? Ye pillary frince)	ator is suff ine) inriverine) ine) magery (E es es gauge, m	Icient) Salt Crust (I	B11) (B12) ertebrates iulfide Od hizospher f Reduced Reductic ain in Rer nes): nes): nes): notos, pre	s (B13) or (C1) ės along l d Iron (C4 in in Plow marks) vious insp	Living Roo) ed Soils (C Wetla pections), i	ts (C3)	ondary Inc Water Ma Sediment Drift Depc Drainage Dry-Seaso Thin Muck Crayfish E Saturatior Shallow A FAC-Neut	licators (2 or n rks (B1) (Rive Deposits (B2) osits (B3) (Rive Patterns (B10 on Water Tabl c Surface (C7) Burrows (C8) n Visible on Ae quitard (D3) ral Test (D5)	nore required) rine) (Riverine) erine) e (C2) rial Imagery (C9
emarks: DCLPA- DROLO /etland Hy rimary Indi- 	ches): <u>10 in</u> eff2 <u>5015</u> [GY drology Indicators: cators (any one Indic Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverl nt Deposits (B2) (Nor posits (B3) (Nonriverl Soil Cracks (B6) on Visible on Aerial In itained Leaves (B9) vations: er Present? Ye resent? Ye pillary frince)	ator is suff ine) inriverine) ine) magery (E es es gauge, m	Icient) Salt Crust (I	B11) (B12) ertebrates iulfide Od hizospher f Reduced Reductic ain in Rer nes): nes): nes): notos, pre	s (B13) or (C1) ės along l d Iron (C4 in in Plow marks) vious insp	Living Roo) ed Soils (C Wetla pections), i	ts (C3)	ondary Inc Water Ma Sediment Drift Depc Drainage Dry-Seaso Thin Muck Crayfish E Saturatior Shallow A FAC-Neut	licators (2 or n rks (B1) (Rive Deposits (B2) osits (B3) (Rive Patterns (B10 on Water Tabl c Surface (C7) Burrows (C8) n Visible on Ae quitard (D3) ral Test (D5)	nore required) rine) (Riverine) erine) e (C2) rial Imagery (C9

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Project/site: San Dialo Creek Post-	Interim city	County: Orar	ne County	Sampling Date: 418/07
Applicant/Owner: COUVILL OF OVERME			لم مل ال	Śampling Point:
nvestigator(s): R. BPCK, L. See, W. S		ion Townshin Re		
andform (hillslope, terrace, etc.): Terrace			,	
		•		30 Datum: <u>NAD 8</u>
	Lat:(.	001055		
ioil Map Unit Name: TIdal flats		1		tion: <u>ENR</u>
re climatic / hydrologic conditions on the site typical				,
re Vegetation, Soil, or Hydrology				esent? Yes No
re Vegetation, Soil, or Hydrology	naturally problem	natic? (If n	eeded, explain any answers	in Remarks.)
UMMARY OF FINDINGS – Attach site	map showing sar	npling point l	ocations, transects,	important features, et
Hydrophytic Vegetation Present? Yes 🗸	No .			
Hydrophytic Vegetation Present? Yes <u>√</u> Hydric Soil Present? Yes		is the Sampled		
Wetland Hydrology Present? Yes	No	within a Wetla	nd? Yes	No
Remarks:		1		
				4
EGETATION				
	Absolute Dor	ninant Indicator	Dominance Test works	neet.
Tree Stratum (Use scientific names.)		ecies? <u>Status</u>	Number of Dominant Spe	
			That Are OBL, FACW, or	
2	<u></u>		Total Number of Dominar	nt j
B			Species Across All Strata	
4			Percent of Dominant Spe	
Total Sapling/Shrub Stratum	Cover:		That Are OBL, FACW, or	FAC: 100 (A/B
Bacchovis salicifolia	85 V	FACW	Prevalence Index works	heet:
2,			Total % Cover of:	Multiply by:
3			OBL species	x 1 =
ł			FACW species	
5			FAC species	
Herb Stratum	Coiver: <u>85</u>		FACU species	
Mesembruanthemum Nodifl	OMM15	NI	UPL species	
				(A) (B)
			Prevalence Index =	B/A =
· · · · · · · · · · · · · · · · · · ·			Hydrophytic Vegetation	
·			Dominance Test is >:	
·			Prevalence Index is ≤	
, 1			Morphological Adapta data in Remarks of	ations ¹ (Provide supporting r on a separate sheet)
			Problematic Hydrophy	
Total (Voody Vine Stratum	Cover: <u>15</u>			
				nd wetland hydrology must
			be present.	
Total (Cover:		Hydrophytic	
6 Bare Ground in Herb Stratum % 0	Cover of Biotic Crust		Vegetation Present? Yes	VNo
Remarks:				
Gillarka.				
· · ·				

Depth <u>Matrix</u>	Redox Features			
(inches) Color (moist) %	Color (moist) % Type ¹		Texture	Remarks
0-15 10YR 4/3 99	104R 416 21	PL S	and	
10YR 3/2 100		S	and	
				•
			·	
		· · · · ·		
Type: C=Concentration, D=Depletion, RM	=Reduced Matrix. ² Location: PL=Pore	Lining, RC=F	Root Channel, M=I	Matrix.
Hydric Soll Indicators: (Applicable to all	LRRs, unless otherwise noted.)			blematic Hydric Solls ³ :
Histosol (A1)	Sandy Redox (S5)	•	1 cm Muck (A	9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S6)	-	2 cm Muck (A	
Black Histic (A3)	Loamy Mucky Mineral (F1)	-	Reduced Vert	
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	-	Red Parent M	
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) Thick Dark Surface (A12)	Depleted Dark Surface (F7) Redox Depressions (F8)			
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	3	Indicators of hydro	ophytic vegetation and
Sandy Gleyed Matrix (S4)	+ + + + + + + + + + + + + + + + +		•	gy must be present.
Restrictive Layer (if present):				
Type:				/
Type:		н	ydric Soil Presen	t? Yes No 🗸
Depth (inches):	 	Н	ydric Soil Presen	t? Yes No 🗸
Depth (inches): Remarks:	 	н	ydric Soil Presen	t? Yes No 🖌
Depth (inches): Remarks:	nches	H	ydric Soil Presen	t? Yes No 🗸
Depth (inches):	nches	H	ydric Soil Presen	t? Yes No 🖌
Depth (inches): Remarks: · Pedox at 0-5 iv	nches	н	ydric Soil Presen	t? Yes No 🔨
Depth (inches): Remarks: Pedo X at 0-5 IV YDROLOGY	nches	н		· · ·
Depth (inches): Remarks: Pedo X at 0-5 IV YDROLOGY Wetland Hydrology Indicators:		H	Secondary Inc	licators (2 or more required)
Depth (inches): Remarks: Pedo X at 0-5 IV YDROLOGY Netland Hydrology Indicators: Primary Indicators (any one indicator is suffi	cient)	H	<u>Secondary Inc</u> Water Ma	dicators (2 or more required) Irks (B1) (Riveríne)
Depth (inches): Remarks: Pedo X at 0 -5 IV YDROLOGY Netland Hydrology Indicators: Primary Indicators (any one indicator is suffi Surface Water (A1)	cient) Salt Crust (B11)	H	<u>Secondary Ind</u> Water Ma Sediment	<u>dicators (2 or more required)</u> irks (B1) (Riverine) Deposits (B2) (Riverine)
Depth (inches): Remarks: Pedo X at 0-5 IV YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is suffi Surface Water (A1) High Water Table (A2)	cient) Salt Crust (B11) Biotic Crust (B12)	H	<u>Secondary Ind</u> Water Ma Sediment Drift Depo	<u>dicators (2 or more required)</u> Irks (B1) (Riverine) Deposits (B2) (Riverine) Dsits (B3) (Riverine)
Depth (inches): Remarks: Peddo X at 0-5 IV YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is suffil 	cient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)	H	<u>Secondary Ind</u> Water Ma Sediment Drift Depo Drainage	<u>dicators (2 or more required)</u> Irks (B1) (Riverine) Deposits (B2) (Riverine) Osits (B3) (Riverine) Pattems (B10)
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Depth (inches): Remarks: Pedo X at 0-5 IV YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is suffing) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	cient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along L Presence of Reduced Iron (C4)	lving Roots (C	Secondary Ind Water Ma Sediment Drift Depo Drainage Dry-Seas 3) Thin Muc Crayfish B	dicators (2 or more required) arks (B1) (Riverine) Deposits (B2) (Riverine) patters (B3) (Riverine) Patterns (B10) on Water Table (C2) k Surface (C7) Burrows (C8)
Depth (inches): Remarks: Pedo X at 0-5 IV YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is suffing 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)	cient) 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 Plowe	lving Roots (C	Secondary Ind Water Ma Sediment Drift Depo Drainage Dry-Seas) Thin Muc Crayfish I Saturation	dicators (2 or more required) arks (B1) (Riverine) Deposits (B2) (Riverine) patterns (B10) on Water Table (C2) k Surface (C7) Burrows (C8) n Visible on Aerial Imagery (C1)
Depth (inches): Remarks: Peddo X. at 0-5 IV YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is suffil 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	cient) 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 Plowe	lving Roots (C	Secondary Ind Water Ma Drift Depo Drainage Dry-Seas 3) Thin Muc Crayfish f Saturation Shallow A	dicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) pattems (B10) on Water Table (C2) k Surface (C7) Burrows (C8) n Visible on Aerial Imagery (Ca quitard (D3)
Depth (inches): Remarks: Peddo X. at 0-5 IV YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is suffil 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)	cient) 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 Plowe	lving Roots (C	Secondary Ind Water Ma Drift Depo Drainage Dry-Seas 3) Thin Muc Crayfish f Saturation Shallow A	dicators (2 or more required) arks (B1) (Riverine) Deposits (B2) (Riverine) patterns (B10) on Water Table (C2) k Surface (C7) Burrows (C8) n Visible on Aerial Imagery (C1)
Depth (inches): Remarks: Peddo X at 0-5 IV YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is suffil 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:	cient) 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 Plowe 7) Other (Explain in Remarks)	lving Roots (C	Secondary Ind Water Ma Drift Depo Drainage Dry-Seas 3) Thin Muc Crayfish f Saturation Shallow A	dicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) pattems (B10) on Water Table (C2) k Surface (C7) Burrows (C8) n Visible on Aerial Imagery (C8) quitard (D3)
Depth (inches): Remarks: Peddo X. at 0-5 IV YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is suffli 	cient) 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 Plowe 7) Other (Explain in Remarks) No Depth (inches):	lving Roots (C	Secondary Ind Water Ma Drift Depo Drainage Dry-Seas 3) Thin Muc Crayfish f Saturation Shallow A	dicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) pattems (B10) on Water Table (C2) k Surface (C7) Burrows (C8) n Visible on Aerial Imagery (C8) quitard (D3)
Depth (inches): Remarks: Peddo X. at 0-5 IV YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is suffli 	cient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizosphere's along L Presence of Reduced Iron (C4) Recent Iron Reduction in Plowe Other (Explain in Remarks) No Depth (inches): Depth (inches):	lving Roots (C ed Soils (C6)	Secondary Ind Water Ma Sediment Drift Depo Drainage Dry-Seas Thin Muc Crayfish I Saturation Shallow A FAC-Neu	dicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) patterns (B10) on Water Table (C2) k Surface (C7) Burrows (C8) h Visible on Aerial Imagery (C4) aquitard (D3) tral Test (D5)
Depth (inches): Remarks: Peddo X. at 0-5 IV YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is suffle 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 N Saturation Present? Yes N	cient)	iving Roots (C ed Soils (C6)	Secondary Ind Water Ma Sediment Drift Depo Drainage Dry-Seas Thin Muc Crayfish F Saturation Shallow A FAC-Neu Hydrology Presen	dicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) patterns (B10) on Water Table (C2) k Surface (C7) Burrows (C8) h Visible on Aerial Imagery (C4) aquitard (D3) tral Test (D5)
Depth (inches): Remarks: Peddo X. at 0-5 IV YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is suffir 	cient)	iving Roots (C ed Soils (C6)	Secondary Ind Water Ma Sediment Drift Depo Drainage Dry-Seas Thin Muc Crayfish F Saturation Shallow A FAC-Neu Hydrology Presen	dicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) patterns (B10) on Water Table (C2) k Surface (C7) Burrows (C8) n Visible on Aerial Imagery (C aquitard (D3) tral Test (D5)
Depth (inches): Remarks: Peddo X. at 0-5 IV YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is suffle 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 N Saturation Present? Yes N	cient)	iving Roots (C ed Soils (C6)	Secondary Ind Water Ma Sediment Drift Depo Drainage Dry-Seas Thin Muc Crayfish F Saturation Shallow A FAC-Neu Hydrology Presen	dicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) patterns (B10) on Water Table (C2) k Surface (C7) Burrows (C8) h Visible on Aerial Imagery (Ca iquitard (D3) tral Test (D5)

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Project/site: San Dieno Creek Post - In-	terim city/c	ounty: <u>Orar</u>	ME COUNTY Sampling Date: 4/18/07
Applicant/Owner: COUVER OF OVERME RD			State: <u>CA</u> Śampling Point: I 8
		on, Township, R	ange: Sec. SE, T.6S, P.9W, SBBM
Landform (hillslope, terrace, etc.): <u>+evrace</u>			
Subregion (LRR): LRR C	Lat-117.8	61966	Long: 33. 651565 Datum: NAD 83
Soil Map Unit Name: TIday flats			NWI classification: E UBL
Are climatic / hydrologic conditions on the site typical for t	his time of year? V	/	
			"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology			eeded, explain any answers in Remarks.)
Are Vegetation, Soil, or Hydrology SUMMARY OF FINDINGS – Affach sife ma			locations, transects, important features, etc.
			, , , , , , , , , , , , , , , , , , , ,
	No No	Is the Sample	
	No	within a Wetla	ind? Yes No
Remarks:			
/EGETATION			
	Absolute Dom	inant Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Use scientific names.)	% Cover Spe	cies? Status	Number of Dominant Species
1		<u></u>	That Are OBL, FACW, or FAC: (A)
2			Total Number of Dominant
3			Species Across All Strata: (B)
4	er:		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum		EA(1)	
1. Barcharis salicifolia		- THU	Prevalence Index worksheet: Total % Cover of: Multiply by:
	10	DBD	OBL species x1 =
3			FACW species x 2 =
5			FAC species x 3 =
Total Cov	er: 70		FACU species x 4 =
Herb Stratum		. 01	UPL species x 5 =
1. SCIPPUS SSP.	<u> 30 /</u>	OBL	Column Totals: (A) (B)
2			Prevalence index = B/A =
3			Hydrophytic Vegetation Indicators:
4			✓ Dominance Test is >50%
5			Prevalence Index is ≤3.0 ¹
6 7			Morphological Adaptations ¹ (Provide supporting
8.			data in Remarks or on a separate sheet)
	er: <u>30</u>		Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum	and a stand and a stand at the stand of the		
1			¹ Indicators of hydric soil and wetland hydrology must be present.
2			
	er:		Hydrophytic Vegetation
% Bare Ground in Herb Stratum % Cove	er of Biotic Crust		Present? Yes <u>No</u> No
Remarks:			
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		to the de				n the absence of indicators.)	
Depth (inches)	<u>Matrix</u> Color (moist)	%	Color (moist)	ox Features % Typ	e ¹ Loc ²	Texture Remarks	
	2.5 × 3/2	95		5	PL.	sandy loam	
		<u> </u>					
· · · · · · · · · · · · · · · · · · ·							
			••••••••••••••••••••••••••••••••••••••				
				21	Deve Lining F		
			=Reduced Matrix. LRRs, unless othe		Pore Lining, F	C=Roct Channel, M=Matrix. Indicators for Problematic Hydric Solls ³ :	
Histosol			Sandy Red			1 cm Muck (A9) (LRR C)	
	ipedon (A2)		Stripped M			2 cm Muck (A10) (LRR B)	
Black Hi	stic (A3)		Loamy Muo	ky Mineral (F1)		Reduced Vertic (F18)	,
Hydroge	n Sulfide (A4)		Loamy Gle	yed Matrix (F2)		Red Parent Material (TF2)	
Stratified	Layers (A5) (LRR (C)	Depleted N	latrix (F3)		Other (Explain in Remarks)	
_ 1 cm Mu	ck (A9) (LRR D)		🗹 Redox Dari	(Surface (F6)			
	Below Dark Surfac	e (A11)		ark Surface (F7)			
	rk Surface (A12)			ressions (F8)		· · · · · · · · · · · · · · · · · · ·	•
_ Sandy M _ Sandy G	ucky Mineral (S1) leyed Matrix (S4)		Vernal Poo	ls (F9)		³ Indicators of hydrophytic vegetation and wetland hydrology must be present.	
	ayer (if present):						
Depth (inc	hech						
			·			Hydric Soil Present? Yes <u>No</u>	
emarks:						Hydric Soil Present? Yes No _	
emarks:						Hydric Soil Present? Yes No _	
emarks: DROLO	GY						
emarks: DROLOG	3Y rology Indicators:			l.		Secondary Indicators (2 or more requir	<u>ed)</u>
emarks: DROLOG	GY		icient)	L.		<u>Secondary Indicators (2 or more requir</u> Water Marks (B1) (Riverine)	
emarks: /DROLO(/etland Hyd	3Y rology Indicators:		Salt Crust	(B11)		<u>Secondary Indicators (2 or more requir</u> Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)	
emarks: /DROLO(/etland Hyd rimary Indic Surface \	GY rology Indicators: ators (any one Indica			(B11)		Secondary Indicators (2 or more requir Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)	
emarks: /DROLO(/etland Hyd rimary Indic Surface \	GY rology Indicators: ators (any one Indicators) Vater (A1) er Table (A2)		Salt Crust Biotic Crus	(B11))	<u>Secondary Indicators (2 or more requir</u> Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)	
emarks: (DROLOC /etland Hyd rimary Indic Surface N High Wal Saturatio	GY rology Indicators: ators (any one Indicators) Vater (A1) er Table (A2)	ator is suff	Salt Crust Biotic Crus Aquatic Inv Hydrogen	(B11) st (B12) vertebrates (B13 Sulfide Odor (C1)	Secondary Indicators (2 or more requir Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)	
emarks: (DROLOC fetland Hyd rimary Indic Surface N High Wal Saturatio Water Ma	GY rology Indicators: ators (any one indic Vater (A1) er Table (A2) n (A3)	ator is suff	Salt Crust Biotic Crus Aquatic Inv Hydrogen	(B11) st (B12) vertebrates (B13 Sulfide Odor (C1)	<u>Secondary Indicators (2 or more requir</u> Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)	
emarks: (DROLOC /etland Hyd rimary Indic Surface N Surface N Saturatio Saturatio Water Ma Sedimeni	GY rology Indicators: ators (any one Indicators) vater (A1) er Table (A2) n (A3) ırks (B1) (Nonriver)	ator is suff ne) nriverine)	Salt Crust Biotic Crus Aquatic Inv Hydrogen Oxidized F	(B11) st (B12) vertebrates (B13 Sulfide Odor (C1) ng Living Roo	Secondary Indicators (2 or more requir Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)	
emarks: (DROLOO /etland Hyd rimary Indic Surface V High Wal Saturatio Water Ma Sediment Drift Dep	GY rology Indicators: ators (any one indicators) Vater (A1) er Table (A2) n (A3) arks (B1) (Nonriveri Deposits (B2) (Nonriveri osits (B3) (Nonriveri	ator is suff ne) nriverine)	Salt Crust Biotic Crus Aquatic Inv Hydrogen Oxidized F	(B11) st (B12) vertebrates (B13 Sulfide Odor (C1 thizospheres alc) ng Living Roo (C4)	Secondary Indicators (2 or more requir Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ts (C3) Thin Muck Surface (C7) Crayfish Burrows (C8)).
emarks: DROLOO fetland Hyd rimary Indic Surface V High Wal Saturatio Water Ma Sedimeni Drift Dep Surface S	GY rology Indicators: ators (any one indicators) vater (A1) er Table (A2) n (A3) urks (B1) (Nonriverl Deposits (B2) (Nonriverl Soil Cracks (B6)	ator is suffi ne) nriverine) ine)	Salt Crust Biotic Crus Aquatic Inv Hydrogen Oxidized F Presence of Recent Iro	(B11) st (B12) /ertebrates (B13 Sulfide Odor (C1 hizospheres alc of Reduced Iron) ng Living Roo (C4) Iowed Soils (C	Secondary Indicators (2 or more requir Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ts (C3) Thin Muck Surface (C7) Crayfish Burrows (C8)).
emarks: DROLOC /etland Hyd rimary Indic Surface N Saturatio Water Ma Sedimeni Drift Dep Surface S Inundatio	GY rology Indicators: ators (any one indicators) Vater (A1) er Table (A2) n (A3) arks (B1) (Nonriveri Deposits (B2) (Nonriveri osits (B3) (Nonriveri	ator is suffi ne) nriverine) ine)	Salt Crust Biotic Crus Aquatic Inv Hydrogen Oxidized F Presence of Recent Iro	(B11) st (B12) vertebrates (B13 Sulfide Odor (C1 hizospheres alo of Reduced Iron n Reduction in P) ng Living Roo (C4) Iowed Soils (C	Secondary Indicators (2 or more requir Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) Drift Deposits (B3)).
emarks: DROLO(fetland Hyd imary Indic Surface V High Wal Saturatio Water Ma Sedimeni Drift Dep Surface S Inundatio Water-Sti	GY rology Indicators: ators (any one indicators) vater (A1) er Table (A2) n (A3) urks (B1) (Nonriveri coposits (B2) (Norriveri Soil Cracks (B6) n Visible on Aerial In ained Leaves (B9)	ator is suffi ne) nriverine) ine)	Salt Crust Biotic Crus Aquatic Inv Hydrogen Oxidized F Presence of Recent Iro	(B11) st (B12) vertebrates (B13 Sulfide Odor (C1 hizospheres alo of Reduced Iron n Reduction in P) ng Living Roo (C4) Iowed Soils (C	Secondary Indicators (2 or more requir).
emarks: DROLOG fetland Hyd imary Indic Surface N Saturatio Water Ma Saturatio Drift Dep Surface S Inundatio Water-Station High Water Sedimeni Drift Dep Surface S Inundation Water-Station High Water-Station Water-Station High Water-Station Water-Station High Water-Station Water-Station High Water-Station High Water-Stati	GY rology Indicators: ators (any one Indicators) Vater (A1) er Table (A2) n (A3) arks (B1) (Nonriver) Deposits (B2) (Norriver) Soil Cracks (B6) n Visible on Aerial In ained Leaves (B9) ations:	ator is suff ne) nriverine) ine) magery (B	Salt Crust Biotic Crus Aquatic Inv Hydrogen Oxidized R Presence Recent Iro 7) Other (Exp	(B11) st (B12) vertebrates (B13 Sulfide Odor (C1 Rhizospheres alo of Reduced Iron n Reduction in P Itain in Remarks)) ng Living Roo (C4) Iowed Soils (C	Secondary Indicators (2 or more requir).
emarks: DROLOG etland Hyd imary Indic Surface N High Wal Saturatio Water Ma Sedimen Drift Dep Surface S Inundatio Water-Sti eld Observ urface Water	GY rology Indicators: ators (any one indicators) Vater (A1) er Table (A2) n (A3) arks (B1) (Nonriveri Deposits (B2) (Nonriveri Soil Cracks (B6) n Visible on Aerial In ained Leaves (B9) ations: r Present?	ator is suff ne) nriverine) ine) magery (B	Salt Crust Biotic Crus Aquatic Inv Aquatic Inv Hydrogen Oxidized R Presence Recent Iro Other (Exp No Depth (inc	(B11) t (B12) vertebrates (B13 Sulfide Odor (C1 thizospheres alo of Reduced Iron n Reduction in P lain in Remarks) thes):) ng Living Roo (C4) Jowed Soils (C	Secondary Indicators (2 or more requir).
emarks: DROLOG etland Hyd imary Indic Surface N High Wal Saturatio Water Ma Sedimen Drift Dep Surface S Inundatio Water-Stie eld Observ wrface Wate ater Table F ituration Pro	GY rology Indicators: ators (any one indicators) Vater (A1) er Table (A2) n (A3) urks (B1) (Nonriverial Deposits (B2) (Nonriverial Deposits (B3) (Nonriverial cosits (B3) (ator is suff ne) nriverine) ine) magery (B	Salt Crust Biotic Crus Aquatic Inv Hydrogen Oxidized R Presence Recent Iro 7) Other (Exp	(B11) st (B12) vertebrates (B13 Sulfide Odor (C1 Phizospheres alo of Reduced Iron n Reduction in P plain in Remarks; sches):) ng Living Roo (C4) Jowed Soils (C	Secondary Indicators (2 or more requir).
emarks: (DROLOC) (etland Hyd rimary Indic Surface N Saturatio Water Ma Saturatio Drift Dep Surface S Inundatio Water-Sti eld Observ urface Wate aturation Pro- cludes cable	SY rology Indicators: ators (any one indicators): ators (any one indicators): ators (any one indicators): ators (A1) rable (A2) n (A3) ators (B1) (Nonriver) solits (B3) (Nonriver) Solits (ator is suff ne) nriverine) ine) magery (B) es 1 es 1	Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized F Presence Recent Iro Other (Exp No Depth (inc No Depth (inc	(B11) st (B12) vertebrates (B13 Sulfide Odor (C1 Rhizospheres alo of Reduced Iron n Reduction in P lain in Remarks) sches): sches): sches): sches): Sches):) ng Living Roo (C4) Iowed Soils (C	Secondary Indicators (2 or more requir)`
emarks: (DROLOC /etland Hyd rimary Indic Surface N Saturatio Water Ma Saturatio Drift Dep Surface S Inundatio Water-Sti eld Observ urface Wate faturation Pro- courdes cab	SY rology Indicators: ators (any one indicators): ators (any one indicators): ators (any one indicators): ators (A1) rable (A2) n (A3) ators (B1) (Nonriver) solits (B3) (Nonriver) Solits (ator is suff ne) nriverine) ine) magery (B es es s gauge, mo	Salt Crust Biotic Crus Aquatic Inv Aquatic Inv Hydrogen Oxidized F Presence G Recent Iro T) Other (Exp No Depth (inc	(B11) st (B12) vertebrates (B13 Sulfide Odor (C1 Rhizospheres alo of Reduced Iron n Reduction in P lain in Remarks) sches): sches): sches): sches): Sches):) ng Living Roo (C4) Iowed Soils (C	Secondary Indicators (2 or more requir)`
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emarks: DROLOC etland Hyd imary Indic Surface N Surface N Water Ma Sedimeni Water Ma Sedimeni Drift Dep Surface S Inundation Water-Sta et observer rface Wate ater Table F turation Pro- cludes capi scribe Rec ACMA	GY rology Indicators: ators (any one indicators) vater (A1) er Table (A2) n (A3) arks (B1) (Nonriveri- bolis (B2) (Nonriveri- boli Cracks (B6) n Visible on Aerial In ained Leaves (B9) ations: r Present? Ye esent? Ye esent? Ye esent? Ye ator y fringe) proded Data (stream	ator is suff ne) nriverine) ine) magery (B es es s gauge, mo	Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized F Presence Recent Iro Other (Exp No Depth (inc No Depth (inc	(B11) st (B12) vertebrates (B13 Sulfide Odor (C1 Rhizospheres alo of Reduced Iron n Reduction in P lain in Remarks) sches): sches): sches): sches): Sches):) ng Living Roo (C4) Iowed Soils (C	Secondary Indicators (2 or more requir).

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Soil Map Unit Name: Tidal flats) L .at:	ection, To ocal relief 1.5661	wnship, Ra (concave, しる	State: CA Sampling Point: 19 ange: SEC. SS, T. (6S, P.9W) SBBM convex, none): CONCAVE Slope (%): 1 Long: 33.(651184 Datum: NAD 83 NWI classification: E[UBL
Are climatic / hydrologic conditions on the site typical for this tim				
Are Vegetation, Soil, or Hydrology signif				"Normal Circumstances" present? Yes 🗡 No
Are Vegetation, Soil, or Hydrology natur	rally probl	ematic?	(lf ne	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map sho	owing s	amplin	g point l	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: Yes No			e Sampled n a Wetlar	
VEGETATION				
	solute [Dominant	Indicator	Dominance Test worksheet:
	Cover 3	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant / (B)
4 Total Cover: Sapling/Shrub Stratum	······································			Percent of Dominant Species 100 (A/B)
1. Baccharis salicifica 10			FACW	Prevalence Index worksheet: Total % Cover of:Multiply by:
3.				OBL species x 1 =
4				FACW species x 2 =
5				FAC species x 3 =
Total Cover: 10	DD			FACU species x 4 =
Herb Stratum				UPL species X 5 = (A)
j				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				Problematic Hydrophytic Vegetation ¹ (Explain)
Total Cover: Woody Vine Stratum				
1				¹ Indicators of hydric soil and wetland hydrology must be present.
2 Total Cover;				Hydrophytic
% Bare Ground in Herb Stratum % Cover of Bi		t		Vegetation Present? Yes <u>No</u>
Remarks:				

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rofile Description: (Describe to the de		or confirm the absence of indicators.)
Depth <u>Matrix</u> inches) Color (moist) %	Redox Features Color (moist) % Type ¹	Loc ² Texture Remarks
3-15 10YR413 100		sand
		·
		• • • • • • • • • • • • • • • • • • •
	-	
·		·
· · · · · ·		
Type: C=Concentration, D=Depletion, RM	I=Reduced Matrix. ² Location: PL=Por	e Lining, RC=Root Channel, M=Matrix,
ydric Soll Indicators: (Applicable to all		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)	
_ Depicted Below Bark Odnace (ATT) _ 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:		
Depth (inches):		Hydric Soil Present? Yes No 🗸
emarks:		
emarks:	L.	
emarks: /DROLOGY	ـــــــــــــــــــــــــــــــــــــ	
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'DROLOGY etland Hydrology Indicators:		Secondary Indicators (2 or more required)
DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is suff	icient)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine)
DROLOGY Tetland Hydrology Indicators: Timary Indicators (any one indicator is suff Surface Water (A1)	icient) Salt Crust (B11)	<u>Secondary Indicators (2 or more required)</u> Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is suff Surface Water (A1) High Water Table (A2)	icient) Salt Crust (B11) Biotic Crust (B12)	<u>Secondary Indicators (2 or more required)</u> Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
'DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is suff Surface Water (A1) High Water Table (A2)	icient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)	<u>Secondary Indicators (2 or more required)</u> Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
'DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is suff Surface Water (A1) High Water Table (A2)	icient) Salt Crust (B11) Biotic Crust (B12)	<u>Secondary Indicators (2 or more required)</u> Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is suff _ Surface Water (A1) _ High Water Table (A2) _ Saturation (A3)	icient) 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) Dry-Season Water Table (C2)
DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is suff Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	icient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I	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) Living Roots (C3) Thin Muck Surface (C7)
DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is suff Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	icient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4)	Secondary Indicators (2 or more required)
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DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is suff 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)	icient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4 Recent Iron Reduction in Plowe	Secondary Indicators (2 or more required)
DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is suff 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) eld Observations:	icient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4) Recent Iron Reduction in Plower 7) Other (Explain in Remarks)	Secondary Indicators (2 or more required)
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DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is suff 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 (B2) Water-Stained Leaves (B9) eld Observations: urface Water Present?	icient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4) Recent Iron Reduction in Plower 7) Other (Explain in Remarks)	Secondary Indicators (2 or more required)
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/DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is suff _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 (B2) _Water-Stained Leaves (B9) eld Observations: urface Water Present? Yes	icient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4) Recent Iron Reduction in Plower Other (Explain in Remarks) No Depth (inches): Depth (inches): Depth (inches):	Secondary Indicators (2 or more required)
/DROLOGY tetland Hydrology Indicators: imary Indicators (any one indicator is suff _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) eld Observations: urface Water Present? Yes	icient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4) Recent Iron Reduction in Plower Other (Explain in Remarks) No Depth (inches): Depth (inches): Depth (inches):	Secondary Indicators (2 or more required)
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DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is suff 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) eld Observations: urface Water Present? Yes	icient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4) Recent Iron Reduction in Plower Other (Explain in Remarks) No Depth (inches): Depth (inches): Depth (inches):	Secondary Indicators (2 or more required)
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/DROLOGY fettand Hydrology Indicators: imary Indicators (any one indicator is suff _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 (B2) _Water-Stained Leaves (B9) eld Observations: Inface Water Present? Yes	icient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4) Recent Iron Reduction in Plower Other (Explain in Remarks) No Depth (inches): Depth (inches): No Depth (inches): Depth (inche	Secondary Indicators (2 or more required)
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DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is suff 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) eld Observations: rface Water Present? Yes	icient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4) Recent Iron Reduction in Plower Other (Explain in Remarks) No Depth (inches): Depth (inches): No Depth (inches): Depth (inche	Secondary Indicators (2 or more required)

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Project/Site: San Diago Creek Post - Interir	n city/Ca	ounty: Orar	NP COUNTY Sampling Date: 4/18/07
Applicant/Owner: COUVER OF OVERME ROMD			State: CA Sampling Point: 20
Investigator(s): R. BECK, L. See, W. Salter		n Townshin Pa	
Landform (hillslope, terrace, etc.): terrace			
			23 1.5 11.77 Stope (%).
	at: -117.8		Long: 33.65/677 Datum: NAD 83
Soil Map Unit Name: Tidal flats			NWI classification: PFOC
Are climatic / hydrologic conditions on the site typical for this time	e of year? Ye		
Are Vegetation, Soil, or Hydrology signifi	icantly disturb	ed? Are	"Normal Circumstances" present? Yes 🔽 No
Are Vegetation, Soil, or Hydrology natura	ally problemat	tic? (If ne	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map sho	wing sam	pling point l	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No			
Hydric Soil Present? Yes No		Is the Samplec within a Wetlar	
Wetland Hydrology Present? Yes No	1		
Remarks:			
VEGETATION			
		nant Indicator	Dominance Test worksheet:
		ies? Status	Number of Dominant Species
1. Saliy Lasiolepls 7	<u> </u>	FACW	That Are OBL, FACW, or FAC: (A)
2			Total Number of Dominant 2 (B)
3			Species Across All Strata: (B)
4 Total Cover:	0		Percent of Dominant Species That Are OBL_EACW, or EAC:
Sapling/Shrub Stratum			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 = FACU species x 4 =
Herb Stratum			UPL species x + - UPL species x 5 =
1. SCIPPUS SSP. 2	D V	OBL	Column Totals: (A) (B)
	0	NE	
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			Problematic Hydrophytic Vegetation ¹ (Explain)
Total Cover: 3	0		
Woody Vine Stratum			¹ Indicators of hydric soil and wetland hydrology must
2			be present.
Total Cover:			Hydrophytic
			Vegetation Present? Yes V No
% Bare Ground in Herb Stratum % Cover of Bi			11030181 103 <u>4</u> NU
Remarks:			

• 0			needed to document the indicator or	
Depth inches)	Color (moist)	%	Redox Features Color (moist) % Type ¹	Loc ² Texture Remarks
) - 12	10YR2/1			
1-12	DIRAL			sandy loam
	·			
				Lisia - DO-Bast Obannal Mathetrix
ype: C=Co	ncentration, D=Dep	pletion, RM=Rei	duced Matrix. ² Location: PL=Pore Rs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
_ Histosol (Sandy Redox (S5)	1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B)
	pedon (A2)		Stripped Matrix (S6)	Reduced Vertic (F18)
Black His			Loamy Mucky Mineral (F1)	Red Parent Material (TF2)
	Sulfide (A4)	~	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
-	Layers (A5) (LRR (C)	Depleted Matrix (F3)	
	k (A9) (LRR D)	(Add)	Redox Dark Surface (F6) Depleted Dark Surface (F7)	
	Below Dark Surfac	e (ATT)	Redox Depressions (F8)	
INICK Dal	k Surface (A12) Joky Mineral (S1)		Vernal Pools (F9)	³ Indicators of hydrophytic vegetation and
_ *	eyed Matrix (S4)			wetland hydrology must be present.
	ayer (if present):			
				,
			•	Hydric Soil Present? Yes No
Depth (incl	nes):		-	
	• •			
	~~~~			
				Secondary Indicators (2 or more required)
etland Hyd	rology Indicators:		ç	Secondary Indicators (2 or more required)
etland Hyd			ç	Water Marks (B1) (Riverine)
etland Hyd Imary Indica	rology Indicators:		ç	
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Project/Site: San Diato Creek Post - 11 Applicant/Owner: OUVILY OF Orame Ri- Investigator(s): R. Beck, L. See, W. Se Landform (hillslope, terrace, etc.): TDES I OP C Subregion (LRR): LRR C Soil Map Unit Name: OUVILITUS DOWNY SAVID Are climatic / hydrologic conditions on the site typical for Are Vegetation, Soil, or Hydrology SUMMARY OF FINDINGS - Attach site m	alter Secti Loca Lat: <u>-117. E</u> Lat: <u>-117. E</u> NDderately significantly distui naturally problem	on, Township, Ra Il relief (concave, SYLO 87 FINI SUDS (res No rbed? Are atic? (If ne	nge: <u>Sec. 58, T.U</u> convex, none): <u>(MC</u> Long: <u>33. 6543</u> <u>1271000</u> NWI classific (If no, explain in F Normal Circumstances" peeded, explain any answe	$\begin{array}{c} \text{Sampling Point:} \underline{\ 21} \\ \underline{\ 0S, \ P, 9W, \ SBBM} \\ \underline{\ 0W} \\ \$
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes Remarks:	No No No	is the Sampled within a Wetlar	Area nd? Yes	No
VEGETATION				
Tree Stratum (Use scientific names.) 1. Sally LUSIOHPIS 2.	% Cover Spe 25	1 - 1	Dominance Test work Number of Dominant S That Are OBL, FACW, Total Number of Domin	pecies 2 (A)
3 4	over: 25		Species Across All Stra Percent of Dominant Sp	pecies
<u>sapling/shrub stratum</u> 1. <u>Bacchavis</u> salicifolia 2.	66v			0( FAC (AB)
345Total C			FACW species	x 2 = x 3 = x 4 =
Herb Stratum 1. Brassica Nigra 2.	<u> 6</u>	NI		x 5 = (B)
2			Hydrophytic Vegetation Dominance Test is Prevalence Index is Morphological Ada	>50%
8	over: <u>15</u>		Problematic Hydro	phytic Vegetation ' (Explain) I and wetland hydrology must
2	over:		Hydrophytic Vegetation	s No
Remarks:				

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Sampling Point:	6	1	

Profile Description: (Describe to the depth		. Tachin	-			
Depth         Matrix           (inches)         Color (moist)         %	Color (moist)	<u>x Feature:</u> %	s Type'	Loc ²	Texture	Remarks
0-12 107R4/3 100					Sand	
<u>0 12 10 F 12 100</u> -		·			<u></u>	
			<u></u>			·
Type: C=Concentration, D=Depletion, RM=R	educed Matrix.	² Location	: PL=Pore	Lining, R	C=Root Chanr	nel, M=Matrix.
Hydric Soil Indicators: (Applicable to all LF	RRs, unless other	wise note	ed.)		Indicators	for Problematic Hydric Solls ³ :
Histosol (A1)	Sandy Redo	x (S5)			1 cm N	fuck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Ma					fuck (A10) (LRR B)
Black Histic (A3)	Loamy Muck	-				ed Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gley		(F2)			arent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Ma	• •	· 		Other (	Explain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark	•	•			
Depleted Below Dark Surface (A11)	Depleted Da					
Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	Redox Depre		-0)		³ Indicators	of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)		5(15)				hydrology must be present.
testrictive Layer (if present):			<u> </u>			
Type:						فر
					1	
Depth (inches):					Hydric Soil	Present? Yes No
Remarks:		<u></u>	L.		Hydric Soil	Present? Yes <u>No</u>
Remarks:		<u>.</u>	٤.		Hydric Soil	Present? Yes No
Remarks: YDROLOGY			٤.			
Remarks: YDROLOGY Vetland Hydrology Indicators:			L.		Secon	dary Indicators (2 or more required)
Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (any one Indicator is sufficie			٤.			dary Indicators (2 or more required) ater Marks (B1) (Riverine)
Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (any one Indicator is sufficie Surface Water (A1)	Salt Crust (		٤.		<u>Secon</u> Ŵ Se	<u>dary Indicators (2 or more required)</u> ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine)
YDROLOGY YUROLOGY Vetland Hydrology Indicators: Primary Indicators (any one Indicator is sufficie Surface Water (A1) High Water Table (A2)	Salt Crust( Biotic Crust	(B12)			<u>Secon</u> Ŵ Se De	<u>dary Indicators (2 or more required)</u> ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine)
Pemarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (any one Indicator is sufficie Surface Water (A1) High Water Table (A2) Saturation (A3)	Salt Crust( Biotic Crust Aquatic Inve	(B12) ertebrates	(B13)			dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Pattems (B10)
Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (any one Indicator is sufficie Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (NonriverIne)	Salt Crust ( Biotic Crust Aquatic Inve Hydrogen S	(B12) ertebrates Sulfide Od	(B13) or (C1)	hing Pool		dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) rainage Patterns (B10) y-Season Water Table (C2)
Primarks: Primary Indicators (any one Indicator is sufficient Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	Salt Crust ( Biotic Crust Aquatic Inve Hydrogen S Oxidized Rt	(B12) ertebrates Sulfide Od hizosphere	(B13) or (C1) es along L			dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) rainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7)
YDROLOGY         Vetland Hydrology Indicators:         Primary Indicators (any one Indicator is sufficie)	Salt Crust ( Biotic Crust Aquatic Invo Hydrogen S Oxidized Rt Presence of	(B12) ertebrates Sulfide Od hizosphere f Reduced	(B13) or (C1) es along L i Iron (C4)			dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) rainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) rayfish Burrows (C8)
YDROLOGY         Vetland Hydrology Indicators:         Primary Indicators (any one Indicator is sufficie	Salt Crust (     Biotic Crust     Aquatic Inve     Hydrogen S     Oxidized Rt     Presence of     Recent Iron	(B12) ertebrates Sulfide Od hizosphere f Reduced Reductio	(B13) or (C1) es along L I Iron (C4) n in Plowe		<u>Secon</u> 	dary Indicators (2 or more required) later Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rainage Pattems (B10) y-Season Water Table (C2) hin Muck Surface (C7) ayfish Burrows (C8) aturation Visible on Aerial Imagery (C9)
YDROLOGY         Yetland Hydrology Indicators:         Primary Indicators (any one Indicator is sufficie	Salt Crust ( Biotic Crust Aquatic Invo Hydrogen S Oxidized Rt Presence of	(B12) ertebrates Sulfide Od hizosphere f Reduced Reductio	(B13) or (C1) es along L I Iron (C4) n in Plowe		Secon Ŵ Ŵ Ďi Di Di Di Di Di Di Di Di Di Di Di Di   5(C3)T 6)Si	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) fit Deposits (B3) (Riverine) rainage Patterns (B10) y-Season Water Table (C2) hin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3)
YDROLOGY         Vetland Hydrology Indicators:         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)         Inundation Visible on Aerial Imagery (B7)         Water-Stained Leaves (B9)	Salt Crust (     Biotic Crust     Aquatic Inve     Hydrogen S     Oxidized Rt     Presence of     Recent Iron	(B12) ertebrates Sulfide Od hizosphere f Reduced Reductio	(B13) or (C1) es along L I Iron (C4) n in Plowe		Secon Ŵ Ŵ Ďi Di Di Di Di Di Di Di Di Di Di Di Di   5(C3)T 6)Si	dary Indicators (2 or more required) later Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rainage Pattems (B10) y-Season Water Table (C2) hin Muck Surface (C7) ayfish Burrows (C8) aturation Visible on Aerial Imagery (C9)
Remarks:         YDROLOGY         Vetland Hydrology Indicators:         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)         Inundation Visible on Aerial Imagery (B7)         Water-Stained Leaves (B9)	Salt Crust ( Biotic Crust Aquatic Inve Hydrogen S Oxidized Rt Presence of Recent Iron Other (Expla	(B12) ertebrates Sulfide Od hizosphere f Reduced Reductio ain in Ren	(B13) or (C1) es along L I Iron (C4) n in Plowe narks)	d Soils (C	Secon Ŵ Ŵ Ďi Di Di Di Di Di Di Di Di Di Di Di Di   5(C3)T 6)Si	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) fit Deposits (B3) (Riverine) rainage Patterns (B10) y-Season Water Table (C2) hin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3)
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Primarks:         Primary Indicators (any one Indicator is sufficie         Primary Indicators (any one Indicator is sufficie         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1) (Nonriverlne)         Sediment Deposits (B2) (Nonriverlne)         Drift Deposits (B3) (Nonriverlne)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery (B7)         Water-Stained Leaves (B9)         Field Observations:         Surface Water Present?       Yes No         Vater Table Present?       Yes No         Saturation Present?       Yes No	Salt Crust ( Biotic Crust Aquatic Inve Hydrogen S Oxidized Rt Presence of Recent Iron Other (Expla	(B12) entebrates sulfide Od nizospher f Reduced Reductio ain in Ren mes): nes):	(B13) or (C1) es along L I Iron (C4) n in Plowe narks)	ed Soils (C	Secon W W Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr Dr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) fit Deposits (B3) (Riverine) rainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3) AC-Neutral Test (D5)
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Project/site: San Diego Creek Post - Inte	rim c	ity/County	r Oran	ne County Sampling Date: 4/18/07
Applicant/Owner: COUVEL OF OVERME ROM	D			State: <u>CA</u> Sampling Point: <u>22</u>
Investigator(s): R. BPCK, L. SPE, W. Salte	y s	Section, To	wnship, Ra	nge: SEC. 58, T. 65, R.9W, SBBM
Landform (hillslope, terrace, etc.): 10051000				
				Long: 33. (051200 Datum: NAD 83
Soil Map Unit Name: TIdal Flats	Lat. <u>11</u>	1.000		NWI classification: $P2UBH_X$
· - ·			1	
Are climatic / hydrologic conditions on the site typical for this				(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology sig			Are "	"Normal Circumstances" present? Yes 📈 No
Are Vegetation, Soil, or Hydrology na	turally prob	lematic?	(If ne	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map s	howing	samplin	g point l	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No		is th	e Sampled	Area
Hydric Soil Present? Yes No		1	in a Wetlar	
Wetland Hydrology Present? Yes 📈 No				
Remarks:				
VEGETATION				
		Dominant		Dominance Test worksheet:
	<u>% Cover</u>	Species?		Number of Dominant Species $2$ (A)
	20_	<u> </u>	FACW	That Are OBL, FACW, or FAC: (A)
2			<u></u>	Total Number of Dominant 3
3				Species Across All Strata: (B)
4Total Cover:	00	<u></u>		Percent of Dominant Species
Sapling/Shrub Stratum				That Are OBL, FACW, or FAC:(A/B)
1. Buchavis salicifolia	40	$\checkmark$	FACW	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:	40			FACU species x 4 =
1. (nama-ebatia foliolosa.	un	.1	NI	UPL species x 5 =
			_ <u>N</u> ¥	Column Totals: (A) (B)
2				Prevalence index = B/A =
				Hydrophytic Vegetation Indicators:
5				Dominance Test is >50%
6.				Prevalence Index is ≤3.01
7				Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
8.				
Total Cover:	40			Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum				1
1				¹ Indicators of hydric soil and wetland hydrology must be present.
2	<u></u>		}	
Total Cover:				Hydrophytic Vegetation
% Bare Ground in Herb Stratum % Cover o	f Biotic Crus	st		Present? Yes <u>No</u>
Remarks:				

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Depth		needed to document the Indicator	or commutine aD	sence of indicators.
Depth (inches) Color	Matrix (moist) %	Redox Features           Color (moist)         %         Type1	Loc ² Text	ure Remarks
	2 4/3 100		Sund	
			ann	y lourn
······				
				••••••••••••••••••••••••••••••••••••••
Type: C=Concentratio	n, D=Depletion, RM=Re	duced Matrix. ² Location: PL=Por	e Lining, RC=Root	Channel, M=Matrix.
lydric Soll Indicators	: (Applicable to all LR	Rs, unless otherwise noted.)	Indic	ators for Problematic Hydric Solis ³ :
Histosol (A1)		Sandy Redox (S5)		1 cm Muck (A9) (LRR C)
Histic Epipedon (A)	2)	Stripped Matrix (S6)		2 cm Muck (A10) (LRR B)
Black Histic (A3)	•	Loamy Mucky Mineral (F1)		Reduced Vertic (F18)
Hydrogen Sulfide (		Loamy Gleyed Matrix (F2)		Red Parent Material (TF2)
Stratified Layers (A		Depleted Matrix (F3)	(	Other (Explain in Remarks)
1 cm Muck (A9) (Ll		Redox Dark Surface (F6)		
Depleted Below Da Thick Dark Surface		Depleted Dark Surface (F7) Redox Depressions (F8)		
Sandy Mucky Mine		Vernal Pools (F9)	³ India	ators of hydrophytic vegetation and
Sandy Gleyed Matr				etland hydrology must be present.
estrictive Layer (if pr		······································		· · · · · · · · · · · · · · · · · · ·
			Hydrid	soll Present? Yes No
emarks:		i		
		2. 1		·
DROLOGY				·
(DROLOGY	licatore:	۰.		Secondary indicators (2 or more required)
etland Hydrology Ind				Secondary Indicators (2 or more required) Water Marks (B1) (Blyerine)
fetland Hydrology Inc rimary Indicators (any	one indicator is sufficien	t)		Water Marks (B1) (Riverine)
fetland Hydrology Ind rimary Indicators (any _ Surface Water (A1)	one indicator is sufficien	t) Salt Crust (B11)		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
/etland Hydrology Ind rimary Indicators (any Surface Water (A1) High Water Table (/	one indicator is sufficien	t) Salt Crust (B11) Biotic Crust (B12)		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
fetland Hydrology Ind rimary Indicators (any Surface Water (A1) High Water Table (/ Saturation (A3)	one indicator is sufficien A2)	t) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
fetland Hydrology Ind rimary Indicators (any Surface Water (A1) High Water Table (/ Saturation (A3) Water Marks (B1) (I	one indicator is sufficien A2) Nonriverine)	t) 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)
/etland Hydrology Ind rimary Indicators (any Surface Water (A1) High Water Table (/ Saturation (A3) Water Marks (B1) (I Sediment Deposits	one indicator is sufficien A2) Nonriverine) (B2) (Nonriverine)	t) Salt Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along L	iving 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)
<ul> <li>fetland Hydrology Ind</li> <li>rimary Indicators (any</li> <li>Surface Water (A1)</li> <li>High Water Table (<i>i</i></li> <li>Saturation (A3)</li> <li>Water Marks (B1) (I</li> <li>Sediment Deposits</li> <li>Drift Deposits (B3) (</li> </ul>	one indicator is sufficien A2) Nonriverine) (B2) (Nonriverine) Nonriverine)	t) Salt Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along L Presence of Reduced Iron (C4)	iving 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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fetland Hydrology Ind rimary Indicators (any Surface Water (A1) High Water Table (/ Saturation (A3) Water Marks (B1) (I Sediment Deposits Drift Deposits (B3) ( Surface Soil Cracks Inundation Visible o Water-Stained Leav eld Observations:	one indicator is sufficien A2) (B2) (Nonriverine) (B2) (Nonriverine) Nonriverine) (B6) n Aerial Imagery (B7) res (B9)	t) 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 Plower Other (Explain in Remarks)	iving Roots (C3) } ad Soils (C6)	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 (C9           Shallow Aquitard (D3)
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<ul> <li>Vetland Hydrology Ind</li> <li>rimary Indicators (any</li> <li>Surface Water (A1)</li> <li>High Water Table (A)</li> <li>Saturation (A3)</li> <li>Water Marks (B1) (I</li> <li>Sediment Deposits (B3) (I</li> <li>Surface Soil Cracks</li> <li>Inundation Visible o</li> <li>Water-Stained Leav</li> <li>eld Observations:</li> <li>urface Water Present?</li> <li>ater Table Present?</li> </ul>	one indicator is sufficien A2) (B2) (Nonriverine) (B2) (Nonriverine) (B6) n Aerial Imagery (B7) res (B9) Yes No Yes No	t) 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 Plowe Other (Explain in Remarks) Depth (inches): Depth (inches):	iving Roots (C3) ad Soils (C6) 	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 (C9     Shallow Aquitard (D3)     FAC-Neutral Test (D5)
<ul> <li>A tetland Hydrology Inderimary Indicators (any Surface Water (A1)</li> <li> High Water Table (A)</li> <li> Saturation (A3)</li> <li> Water Marks (B1) (I</li> <li> Sediment Deposits (B3) (I</li> <li> Surface Soil Cracks</li> <li> Inundation Visible o</li> <li> Water-Stained Leavel</li> <li>eld Observations:</li> <li>urface Water Present?</li> <li>ater Table Present?</li> </ul>	one indicator is sufficien A2) (B2) (Nonriverine) (B2) (Nonriverine) (Nonriverine) (B6) n Aerial Imagery (B7) (es (B9) Yes No Yes No Yes No	t) 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 Plowe Other (Explain in Remarks) Depth (inches):	iving Roots (C3) ad Soils (C6) 	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 (C9           Shallow Aquitard (D3)
<pre>/etland Hydrology Ind rimary Indicators (any _ Surface Water (A1) _ High Water Table (/ _ Saturation (A3) _ Water Marks (B1) (I _ Sediment Deposits Drift Deposits (B3) ( _ Surface Soil Cracks _ Inundation Visible o _ Water-Stained Leav eld Observations: urface Water Present? aturation Present? aturation Present? </pre>	one indicator is sufficien A2) Nonriverine) (B2) (Nonriverine) Nonriverine) (B6) n Aerial Imagery (B7) res (B9) Yes No Yes No Yes No	t) 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 Plowe Other (Explain in Remarks) Depth (inches): Depth (inches):	iving Roots (C3) ed Soils (C6)   Wetland Hydr	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 (C9         Shallow Aquitard (D3)         FAC-Neutral Test (D5)
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Actiand Hydrology Ind         rimary Indicators (any	one indicator is sufficien A2) Nonriverine) (B2) (Nonriverine) Nonriverine) (B6) n Aerial Imagery (B7) res (B9) Yes No Yes No Yes No j.	t) 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 Plowe Other (Explain in Remarks) Other (Explain in Remarks) Depth (inches): Depth (inches): Depth (inches): Depth (inches):	iving Roots (C3) ed Soils (C6)   Wetland Hydr	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 (C9         Shallow Aquitard (D3)         FAC-Neutral Test (D5)
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Soil Map Unit Name: $\underline{T_1 da_1} + \underline{flats}$ Are climatic / hydrologic conditions on the site typical for th	ND + EV Lat:	Section, T Local reli 7.85	ownship, Ri ef (concave, 9376	State:       CA       Sampling Point:       23         ange:       SA:.       SS       T. 6S, P. 9W, SBBM         convex, none):       COVCANC       Slope (%):       J         Long:       33.65487       Datum:       NAD 83          NWI classification:       P-24BH x          (If no, explain in Remarks.)       A
Are Vegetation, Soil, or Hydrology				"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology				eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing	j samplii	ng point	locations, transects, important features, etc.
Hydric Soil Present? Yes N	lo lo lo		he Samplei hin a Wetla	
VEGETATION				· · · · · · · · · · · · · · · · · · ·
<u>Tree Stratum</u> (Use scientific names.) 1,		Species		Dominance Test worksheet:         Number of Dominant Species         That Are OBL, FACW, or FAC:         2         (A)
2		• •••••	-	Total Number of Dominant Species Across All Strata: (B)
4 Total Cover				Percent of Dominant Species
<u>Sapling/Shrub Stratum</u> 1. <u>Bacchavis</u> <u>Salicifolia</u> 2 3 4.	60	<u> </u>	FAcw	That Are OBL, FACW, or FAC:       (A/B)         Prevalence Index worksheet:       (A/B)
5				FAC species x 3 =
Total Cover	<u> </u>	•		FACU species         x 4 =           UPL species         x 5 =
1. Sarpus ssp.	40	<u> </u>	032	Column Totals: (A) (B)
2		•		Prevalence Index = B/A =
3.		·		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)
8	40	**************************************		Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum 1.				¹ Indicators of hydric soil and wetland hydrology must be present.
2 Total Cover				Hydrophytic
% Bare Ground in Herb Stratum % Cover				Vegetation Present? Yes <u>No</u> No
Remarks:				

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Depth	cription: (Describe 1 Matrix		Ped	lox Features		· · ·			
inches)	Color (moist)	%	Color (moist)		Type'	Loc ² Te	xture	Remarks	
1-24	10TR413	90	104236	10		50	ndyloann		
	115YR312	90	10823/6				dy loam		
	101KJL		1012-10	_ 10		<u> </u>	ngiourn		
				·····					
	·····							8	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,									
ype: C=C	oncentration, D=Depl Indicators: (Applica	etion, RM	Reduced Matrix.	² Location:	PL=Pore L	ining, RC=Rc. In	ot Channel, M=Ma licators for Probl	trix. ematic Hydric So	oils ³ :
		ule to all			)		1 cm Muck (A9)		
_ Histosol			Sandy Rec Stripped N				_ 2 cm Muck (A3)		
	pipedon (A2)			cky Mineral (I	E1)		Reduced Vertic		
_ Black Hi				yed Matrix (F		·	Red Parent Mate		
	n Sulfide (A4)	•	Depleted N	-	<i>2</i> )		Other (Explain in		
	d Layers (A5) (LRR C	)	, ·	. ,	<b>S</b> )			montanoj	
-	rck (A9) (LRR D)			k Surface (F6	•				
	d Below Dark Surface	e (A11)		Dark Surface	• •				
	ark Surface (A12)			pressions (F8	)	31	dicators of hydropi	hutic versetation a	nd
	Aucky Mineral (S1)		Vernal Poo	DIS (F9)		111	wetland hydrology	-	
	Bleyed Matrix (S4)						wettarte frydrology	must be present	
	Cayer (it present).							1	
••••••									
	ah a a) :					Hv	Iric Soil Present?	Yes V	No
	ches);				)	Hyd	Iric Soil Present?	Yes V	No
emarks:					<i>ي</i> .	Hyd	Iric Soil Present?	Yes <u>V</u>	No
omarks:	GY				<i>٤.</i>	Hyo			
marks: DROLO otland Hyd	GY drology Indicators:				۶ <u>.</u>	Hyd	Secondary Indic	ators (2 or more r	
DROLO etiand Hy	GY drology Indicators: cators (any one indica		cient)	4 (2) 1 (1)	<u>).</u>	Hyd	<u>Secondary Indic</u> Water Mark	ators (2 or more i s (B1) (Riverine)	eguired)
DROLO etland Hy imary Indic _ Surface	<b>GY</b> drology Indicators: cators (any one indica Water (A1)		cient)		)	Hyd	<u>Secondary India</u> Ŵater Mark Sediment D	ators (2 or more i s (B1) (Riverine) eposits (B2) (Riv	equired) erine)
DROLO etland Hyd imary Indic _ Surface _ High Wa	<b>GY</b> drology Indicators: cators (any one indica Water (A1) ter Table (A2)		cient) Salt Crust Biotic Cru	ist (B12)		Hyd	<u>Secondary Indic</u> Ŵater Mark Sediment D Drift Depos	ators (2 or more i s (B1) (Riverine) leposits (B2) (Riv ts (B3) (Riverine	equired) erine)
DROLO etland Hyu mary Indic Surface High Wa Saturatic	<b>GY</b> drology Indicators: cators (any one indica Water (A1) .ter Table (A2) on (A3)	tor is suffi	cient) Salt Crust Biotic Cru Aquatic In	ist (B12) ivertebrates (	(B13)	Hyd	Secondary Indio Water Mark Sediment D Drift Depos Drainage P	ators (2 or more i s (B1) (Riverine) leposits (B2) (Riv its (B3) (Riverine atterns (B10)	equired) erine)
DROLO etland Hyu mary Indio Surface High Wa Saturatio Water M	GY drology Indicators: cators (any one indica Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverir	tor is suffi	cient) Salt Crust Biotic Cru Aquatic In Hydrogen	ist (B12) ivertebrates ( Sulfide Odor	(B13) r (C1)		Secondary Indio Ŵater Mark Sediment D Drift Depos Drainage P Dry-Seasor	ators (2 or more i s (B1) (Riverine) leposits (B2) (Riv its (B3) (Riverine atterns (B10) i Water Table (C2	equired) erine)
DROLO etland Hyu mary Indio Surface High Wa Saturatio Water M Sedimer	GY drology Indicators: cators (any one indica Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverir ti Deposits (B2) (Non	tor is suffi ne) riverine)	cient) Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I	ist (B12) ivertebrates ( Sulfide Odor Rhizospheres	(B13) r (C1) s along Liv		Secondary Indic Water Mark Drift Depos Drainage P Dry-Seasor ) Thin Muck S	ators (2 or more i s (B1) (Riverine) eposits (B2) (Riv its (B3) (Riverine atterns (B10) i Water Table (C2 Surface (C7)	equired) erine)
DROLO etland Hyu mary Indio Surface High Wa Saturatio Water M Sedimer	GY drology Indicators: cators (any one indica Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverir	tor is suffi ne) riverine)	cient) Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence	ist (B12) wertebrates ( Sulfide Odor Rhizospheres of Reduced I	(B13) r (C1) s along Liv Iron (C4)	ing Roots (C3	Secondary Indic Water Mark Sediment D Drift Depos Drainage P Dry-Seasor ) Thin Muck S Crayfish Bu	ators (2 or more i s (B1) (Riverine) eposits (B2) (Riv its (B3) (Riverine atterns (B10) i Water Table (C2 Surface (C7) mows (C8)	erine) )
DROLO etland Hyd mary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep	GY drology Indicators: cators (any one indica Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverir ti Deposits (B2) (Non	tor is suffi ne) riverine)	cient) Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I	ist (B12) wertebrates ( Sulfide Odor Rhizospheres of Reduced I	(B13) r (C1) s along Liv Iron (C4)	ing Roots (C3	Secondary India Water Mark Drift Depos Drainage P Dry-Seasor ) Thin Muck S Crayfish Bu Saturation N	ators (2 or more i s (B1) (Riverine) eposits (B2) (Riverine) atterns (B10) Water Table (C2 Surface (C7) rrows (C8) /isible on Aerial Ir	erine) )
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DROLO etland Hyd imary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundatic Water-S ald Observ rface Water Sater Table turation Pr cludes cap Scribe Rec	GY drology Indicators: bators (any one indicators: bators (any one indicators: bators (any one indicators) Water (A1) ter Table (A2) on (A3) larks (B1) (Nonrivering to Deposits (B2) (Nonrivering Soil Cracks (B6) on Visible on Aerial Internet Leaves (B9) vations: er Present? Ye Present? Ye resent? Ye set fringe)	tor is suffi ne) riverine) ne) nagery (B7	cient) Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Other (Ex) Other (Ex) Depth (in Io Depth (in	Ist (B12) Invertebrates ( Sulfide Odor Rhizospheres of Reduced I on Reduction plain In Reima Inches): Inches):22	(B13) r (C1) s along Liv Iron (C4) in Plowed arks)	ing Roots (C3 Soils (C6) Wetland H	Secondary India Water Mark Sediment D Drift Depos Dry-Seasor Dry-Seasor Crayfish Bu Crayfish Bu Saturation N Shallow Aq FAC-Neutra	ators (2 or more i s (B1) (Riverine) eposits (B2) (Riverine atterns (B10) Water Table (C2 Surface (C7) rrows (C8) /isible on Aerial Ir uitard (D3) I Test (D5)	erine) )
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Project/Site: San Dialo Creek Post - Interin	∩ City/Cou	nty: Oray	me County Sampling Date: 4/19/07
Applicant/Owner: COUVITY OF UVINE KIJIND	······		State: CA Sampling Point: 29
Investigator(s): R. Beck, L. See, W. Salter			
Landform (hillslope, terrace, etc.): 10510pc			
Subregion (LRR): LRR C	:-117.85	59971	Long: 33.651196 Datum: NAD 83
Soil Map Unit Name: TIdal Flats			NWI classification: 220BHx
Are climatic / hydrologic conditions on the site typical for this time	of year? Yes		
Are Vegetation, Soil, or Hydrology signific	antly disturbed	i? Are	"Normal Circumstances" present? Yes 📈 No
Are Vegetation Soil, or Hydrology natural	ly problematic		eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map show	ving sampl	ing point	locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No			
Hydric Soil Present? Yes No	13	the Sample	
Wetland Hydrology Present? Yes No		ithin a Wetla	ind? Yes V No
Remarks:			
			·
VEGETATION			
	lute Domina over Species	nt Indicator	Dominance Test worksheet:
1			Number of Dominant Species (A)
2			
3.			Total Number of Dominant J Species Across All Strata: (B)
4			
Total Cover:			Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
Sepling/Shrub Stratum	_	CAGUI	Prevalence Index worksheet:
1. Baccharis salicifalla li			Total % Cover of:Multiply by:
2			OBL species         x 1 =
3			FACW species x 2 =
5,			FAC species x 3 =
Total Cover: 10			FACU species x 4 =
Herb Stratum		<u> </u>	UPL species x 5 =
1. Cotula coronopifolia 80		- FACW+	Column Totals: (A) (B)
2. <u>Scipus ssp.</u> 3. Isacoma manziisii V. Vennonioides 10	<u>}</u>	- OBL FAC+	Prevalence index = B/A =
		PACT	Hydrophytic Vegetation Indicators:
4			Dominance Test is >50%
5			Prevalence Index is ≤3.0 ¹
7			Morphological Adaptations ¹ (Provide supporting
8			data in Remarks or on a separate sheet)
Total Cover: 91	)		Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum			¹ Indicators of hydric soil and wetland hydrology must
1			be present.
2			Hydrophytic
Total Cover:			Magatotion
% Bare Ground in Herb Stratum % Cover of Biot	ic Crust		Present? Yes No
Remarks:			

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Depth		to the deb	oth needed to docu			or commi	in the absence Of	maloutors.
	<u>Matrix</u> Color (moist)	%	Color (moist)	ox Feature %	s Type'	_Loc ²	Texture	Remarks
(inches)				70	TADe			Kenarka
0-7	IOYRY 3	100				·	sang_	
4-1	10YR 3/2	90	<u>7673/4</u>	16	. <u></u>	PL	SITE loam	
7-18	10YR32	90	7.5 73/4	10		PL	claysilt 1	XIM
		· · · · · · · · · · · · · · · · · · ·					······································	·
		letion RM	Reduced Matrix.	² l ocation	· PI =Por	e Linina. F		M=Matrix.
			LRRs, unless other					Problematic Hydric Solls ³ :
Histosol Histic Ep Black Hi Hydroge Stratified 1 cm Mu Depleted	(A1) sipedon (A2) stilc (A3) n Sulfide (A4) I Layers (A5) (LRR C ck (A9) (LRR D) I Below Dark Surface	;)	Sandy Red Stripped Ma Loamy Muc Loamy Gley Depleted M Redox Dark Depleted Da Redox Depl	ox (S5) atrix (S6) ky Mineral yed Matrix atrix (F3) c Surface ( ark Surface	l (F1) (F2) F6) e (F7)		2 cm Muc Reduced Red Pare	k (A9) ( <b>LRR C</b> ) k (A10) ( <b>LRR B</b> ) Vertic (F18) nt Material (TF2) plain in Remarks)
Sandy M Sandy G	rk Surface (A12) lucky Mineral (S1) leyed Matrix (S4)	•	Vernal Pool	•	-0)			nydrophytic vegetation and drology must be present.
Туре:	.ayer (if present):							
Depth (inc	hes):						Hydric Soll Pro	esent? Yes <u>V</u> No
lemarks:								<u>,</u>
	GY				٤.			
(DROLO)					k.		Seconda	y Indicators (2 or more required)
YDROLO(	Irology Indicators:	ator is suffi	cient)		٤.		_	ry Indicators (2 or more required) er Marks (B1) (Riverine)
YDROLOO Vetland Hyc rimary Indic Surface N High Wal Saturatio	trology Indicators: ators (any one indica Water (A1) ter Table (A2) n (A3)		Salt Crust Biotic Crus Aquatic Inv Hydrogen S	it (B12) /ertebrates Sulfide Od	s (B13) lor (C1)		Ŵate Sedii Drift Drair Dry-S	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2)
YDROLO( Vetland Hyd rimary Indic Surface N High Wal Saturatio Water Ma Sedimen Drift Dep Surface S Inundatio	trology Indicators: ators (any one indica Mater (A1) ter Table (A2) n (A3) arks (B1) (Nonriveri t Deposits (B2) (Nor osits (B3) (Nonriveri Soil Cracks (B6) n Visible on Aerial Ir	ne) iriverine) ine)	Salt Crust Biotic Crus Aquatic Inv Hydrogen 3 Oxidized R Presence c Recent Iror	t (B12) vertebrates Sulfide Od thizospher of Reduced n Reductio	s (B13) lor (C1) es along l d Iron (C4 on in Plow	)		er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) mage Patterns (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) ration Visible on Aerial Imagery (C9 ow Aquitard (D3)
YDROLOG Vetland Hyd rimary Indic Surface N High Wal Saturatio Water Ma Sedimen Drift Dep Surface S Inundatic Water-St	trology Indicators: ators (any one indica Water (A1) ter Table (A2) n (A3) arks (B1) (Nonriverli t Deposits (B2) (Norr osits (B3) (Nonriver Soil Cracks (B6) in Visible on Aerial Ir ained Leaves (B9)	ne) iriverine) ine)	Salt Crust Biotic Crus Aquatic Inv Hydrogen 3 Oxidized R Presence c Recent Iror	t (B12) vertebrates Sulfide Od thizospher of Reduced n Reductio	s (B13) lor (C1) es along l d Iron (C4 on in Plow	)		er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) mage Patterns (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) ration Visible on Aerial Imagery (C9
YDROLOG Vetland Hyd Saturatio Saturatio Water Ma Sedimen Drift Dep Surface S Inundatic Water-St leld Observ	trology Indicators: ators (any one indica Water (A1) ter Table (A2) n (A3) arks (B1) (Nonriverli t Deposits (B2) (Norr osits (B3) (Nonriver Soil Cracks (B6) in Visible on Aerial Ir ained Leaves (B9) ations:	ne) iriverine) ine) nagery (B7	Salt Crust Biotic Crust Aquatic Inv Hydrogen 3 Oxidized R Presence c Recent Iror Other (Exp	it (B12) vertebrates Sulfide Od hizospher of Reduced n Reductio Iain in Rer	s (B13) lor (C1) es along l d Iron (C4 on in Plow marks)	) ed Soils (0		er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) mage Patterns (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) ration Visible on Aerial Imagery (C9 ow Aquitard (D3)
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Project/Site: <u>SQN Diego Creek Post - Int</u> Applicant/Owner: <u>OUVAL of Orane RDV</u> Investigator(s): <u>R. Beck, L. See, W. Sal</u> Landform (hillslope, terrace, etc.): <u>Dest ope</u> Subregion (LRR): <u>LRR C</u> Soil Map Unit Name: <u>Tidal flats</u> Are climatic / hydrologic conditions on the site typical for th Are Vegetation <u>Soil</u> , or Hydrology Are Vegetation <u>Soil</u> , or Hydrology	Lat: <u></u>	Section, T Local relia 7.85 ar? Yes_ disturbed?	ownship, Ri of (concave, <u>793 (</u> <u>793 (</u> No Are	
SUMMARY OF FINDINGS - Attach site map	snowing	sampin	ig point	locations, transects, important features, etc.
Hydrophytic Vegetation Present?       Yes       N         Hydric Soil Present?       Yes       N         Wetland Hydrology Present?       Yes       N         Remarks:       N       N		ls ti witi	he Sample hin a Wetla	d Area and? Yes No
VEGETATION				•
Tree Stratum (Use scientific names.) 1	Absolute <u>% Cover</u>	Species?		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2			. <u></u>	Total Number of Dominant Species Across All Strata: (B)
				Percent of Dominant Species That Are OBL, FACW, or FAC: (DD) (A/B)
Sapling/Shrub Stratum 1. Buccharis Salicifolia	90		EACU	Prevalence Index worksheet: Total % Cover of: Multiply by:
2 3				OBL species         x 1 =
4				FACW species x 2 =
5				FAC species         x 3 =           FACU species         x 4 =
Total Cover <u>Herb Stratum</u>	-10			UPL species          x 5 =
1			· · · · · · · · · · · · · · · · · · ·	Column Totals: (A) (B)
2				Prevalence Index = B/A =
4	· ·····			Hydrophytic Vegetation Indicators:
5				Dominance Test is >50%
6				Prevalence Index is ≤3.0 ¹ Mαphological Adaptations ¹ (Provide supporting
7				data in Remarks or on a separate sheet)
8 Total Cover				Problematic Hydrophytic Vegetation ¹ (Explain)
<u>Woody Vine Stratum</u> 1	· ·			¹ Indicators of hydric soil and wetland hydrology must be present.
2 Total Cover				Hydrophytic
	of Biotic Cru	ust		Vegetation Present? Yes <u>No</u>
Remarks:				Language in

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Profile Des	cription: (De	scribe	to the dep	pth needed to docu	ment the	indicator	or contirm	n the abse	nce of n	Iuicators	.)	
Depth		<u>Aatrix</u>			ox Feature		Loc ²	Tasekus	-		Remarks	
(inches)	<u>Color (m</u>		%	Color (moist)	%	Type'	LOC	Textur	1		Remarks	
0-15	LOTR '		100					San				
15-18	IDYR 3	2	99	104R416	<u> </u>		PL	silt	<u> </u>			
			_									
					-							
					-							
Type: C=C	oncentration,	D=Dep	eletion, RM	=Reduced Matrix.			e Lining, R	C=Root C	hannel, l	M=Matrix.	the Wydela (	Pollo ³
ydric Soll	Indicators: (	(Applic	able to all	LRRs, unless othe		ied.)					atic Hydric S	50115 .
Histosol				Sandy Red						(A9) (LR		
	pipedon (A2)			Stripped M	• •					(A10) (LI		
	istic (A3)			Loamy Muo	-					ertic (F18	•	
	en Sulfide (A4	,		Loamy Gle	•	(F2)				t Material		
	d Layers (A5)		C)	Depleted M	• •	(50)		Ot	ner (Exp	lain in Re	marks)	
	uck (A9) (LRR		/ <b>.</b>	Redox Darl								
	d Below Dark		e (A11)	Depleted D								
	ark Surface (A			Redox Dep		F0)		³ In dicat	tors of h	udrophytic	vegetation	and
	Mucky Mineral			Vernal Poo	IS (F9)						st be preser	
	Bleyed Matrix					<u> </u>		1	ananya	lology ind		
estrictive	Layer (if pres	sent):										
	54 C											
Туре:	•.								-	· (0 )	÷	No 1
Depth (in	ches):				<u></u>		<u></u>	Hydric	Soll Pre	sent?	Yes	No <u> </u>
Depth (in	ches):				<u> </u>			Hydric	Soil Pre	sent? `	Yes	No
Depth (in Remarks:						بر						
Depth (in emarks: <b>YDROLO</b>		cators:				ر ا			econdar	y Indicator	s (2 or more	required)
Depth (in Remarks: YDROLO Vetland Hy	GY drology India			īcient)		٤.			econdary Water	/ Indicator Marks (B	s (2 or more	e required)
Depth (in emarks: YDROLO Vetland Hy rimary India	GY drology Indic cators (any on				(B11)	کر			econdary Water	/ Indicator Marks (B	s (2 or more	e required)
Depth (in emarks: YDROLO Vetland Hy rimary India Surface	<b>GY</b> drology India cators (any on Water (A1)	ie Indic		Salt Crust		L.			econdary Water Sedim	<u>y Indicator</u> Marks (B nent Depc	s (2 or more	e required) e) verine)
Depth (in emarks: YDROLO Vetland Hy rimary India Surface High Wa	<b>GY</b> drology Indic cators (any on Water (A1) ater Table (A2	ie Indic		Salt Crust Biotic Crus	st (B12)				econdary _ Water _ Sedim _ Drift E	<u>y Indicator</u> Marks (B nent Depc	rs (2 or more 1) (Riverine sits (B2) (Ri 33) (Riverin	e required) e) verine)
Depth (in emarks: YDROLO Vetland Hy rimary India Surface High Wa Saturatio	GY drology Indic cators (any on Water (A1) ater Table (A2 on (A3)	ie Indic	<u>ator is suff</u>	Salt Crust Biotic Crus Aquatic In	st (B12) vertebrate	es (B13)		<u> </u>	econdary _ Water _ Sedim _ Drift I _ Draina	/ Indicator Marks (E ent Depo Deposits (I age Patter	<u>s (2 or more</u> 1) (Riverine sits (B2) (Ri 33) (Riverin ms (B10)	e <u>required)</u> e) verine) e)
Depth (in emarks: YDROLO Vetland Hy rimary India Surface High Wa Saturatia Water M	GY drology Indic cators (any on Water (A1) ater Table (A2 on (A3) larks (B1) (No	<u>ie Indic</u> ) onrtver	ator is suff ine)	Salt Crust Biotic Crus Aquatic In Hydrogen	st (B12) vertebrate Sulfide O	es (B13) dor (C1)			econdary _ Water _ Sedim _ Drift E _ Drains _ Dry-S	<u>/ Indicator</u> Marks (E Deposits (I age Patter eason Wa	sits (2 or more sit) (Riverine sits (B2) (Ri 33) (Riverin ms (B10) ater Table (C	e <u>required)</u> e) verine) e)
Depth (in Remarks: YDROLO Vetland Hy Primary India Surface High Wa Saturatia Water M Sedimer	GY drology Indic cators (any on Water (A1) ater Table (A2 on (A3) larks (B1) (No nt Deposits (B	) ) onrtver 2) (Noi	ator is suff ine) nriverine)	Salt Crust Biotic Crus Aquatic In Hydrogen Oxidized F	st (B12) vertebrate Sulfide O Rhizosphe	es (B13) dor (C1) rés along	Living Roo		econdan _ Water _ Sedim _ Drift E _ Drain _ Dry-S _ Thin M	y Indicator Marks (B Deposits (I age Patter eason Wa Juck Surf	sits (2 or more sits (B2) (Ri 33) (Riverine ms (B10) ater Table (C ace (C7)	e <u>required)</u> e) verine) e)
Depth (in Remarks: YDROLO Vetland Hy Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep	GY drology Indic cators (any on Water (A1) ater Table (A2 on (A3) farks (B1) (No of Deposits (B posits (B3) (No	e indic ) onrtver 2) (Noi onrivei	ator is suff ine) nriverine)	Salt Crust Biotic Crus Aquatic In Hydrogen Oxidized F	st (B12) vertebrate Sulfide O Rhizosphe of Reduce	es (B13) dor (C1) rés along ed iron (C4	4)		econdan _ Water _ Sedim _ Drift E _ Drain: _ Dry-S _ Thin M _ Crayfi	y Indicator Marks (B bent Depc Deposits (I age Patter eason Wa Muck Surf sh Burrow	s (2 or more sits (B2) (Ri 33) (Riverin ms (B10) ater Table (C ace (C7) vs (C8)	e <u>required)</u> a) verine) e) 2)
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Depth (in Remarks: YDROLO Vetland Hy Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Surface Inundati Water-S	GY drology Indic cators (any on Water (A1) ater Table (A2 on (A3) larks (B1) (No nt Deposits (B posits (B3) (N Soil Cracks (I on Visible on tained Leaves	e indic ) 20 (Noi 20 (Noi 36) Aerial I	<u>ator is suff</u> ine) nriverine) rine)	Salt Crust Biotic Crus Aquatic In Hydrogen Oxidized F Presence Recent Inc	st (B12) vertebrate Sulfide O Rhizosphe of Reduce n Reducti	es (B13) dor (C1) rés along ed iron (C4 on in Plow	4)	ts (C3)	econdary Water Drift I Draina Dry-S Thin M Crayfi Satura Shallo	y Indicator Marks (E Deposits (I age Patter eason Wa Auck Surf sh Burrow ation Visib	rs (2 or more sits (B2) (Ri 33) (Riverine rs (B10) ater Table (C ace (C7) vs (C8) ble on Aerial rd (D3)	e <u>required)</u> a) verine) e) 2)
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Depth (in Remarks: YDROLO Vetland Hy rrimary India Saturatio Saturatio Water M Sedimer Drift Deg Surface Inundati Water-S leld Obser urface Wat	GY drology Indic cators (any on Water (A1) ater Table (A2 on (A3) farks (B1) (No on (A3) farks (B3) (No Soil Cracks (I on Visible on tained Leaves vations: er Present?	onriver (2) (Noi onriver (36) Aerial I (89)	<u>ator is suff</u> Ine) nriverine) Tine) magery (B	<ul> <li>Salt Crust</li> <li>Biotic Crust</li> <li>Aquatic In</li> <li>Hydrogen</li> <li>Oxidized F</li> <li>Presence</li> <li>Recent Irc</li> <li>Other (Exponent)</li> <li>No Depth (in</li> </ul>	st (B12) vertebrate Sulfide O Rhizosphe of Reduce n Reducti plain in Re 	es (B13) dor (C1) res along ed iron (C4 on in Plow emarks)	4) ved Soils (C	ts (C3)	econdary Water Drift I Draina Dry-S Thin M Crayfi Satura Shallo	y Indicator Marks (E bent Deposits (I age Patter eason Wa Auck Surf sh Burrow ation Visit w Aquitar	rs (2 or more sits (B2) (Ri 33) (Riverine rs (B10) ater Table (C ace (C7) vs (C8) ble on Aerial rd (D3)	e <u>required)</u> a) verine) e) 2)
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Depth (in Remarks: YDROLO Vetland Hy Primary India Surface High Water Saturation Sedimer Drift Dep Surface Inundati Water-S Ield Obser Surface Water Vater Table Saturation Pi	GY drology Indic cators (any on Water (A1) ater Table (A2 on (A3) farks (B1) (No ht Deposits (B posits (B3) (Ni Soil Cracks (I on Visible on tained Leaves vations: er Present? Present?	onriver 2) (Noi 2) (Noi 36) Aerial I 5 (B9) Y Y	ator is suff Ine) nriverine) rine) magery (B es	<ul> <li>Salt Crust</li> <li>Biotic Crust</li> <li>Aquatic In</li> <li>Hydrogen</li> <li>Oxidized F</li> <li>Presence</li> <li>Recent Irc</li> <li>Other (Exponent)</li> <li>No Depth (in</li> </ul>	st (B12) vertebrate Sulfide O Rhizosphe of Reducti oláin in Re ches): ches):	es (B13) dor (C1) res along ed iron (C4 on in Plow emarks)	4) ved Soils (C	ts (C3)	econdary Water Sedim Drift E Drains Dry-S Thin M Crayfi Satura Shallo FAC-1	/ Indicator Marks (E hent Deposits (I age Patter eason Wa /luck Surf sh Burrow ation Visite w Aquitar Neutral Te	rs (2 or more sits (B2) (RI sits (B2) (RI 33) (Riverin ms (B10) ater Table (C ace (C7) vs (C8) ble on Aerial rd (D3) est (D5)	e <u>required)</u> e) verine) e)
Depth (in Remarks: YDROLO Vetland Hy Primary India Surface High Wa Saturatio Vater N Sedimer Drift Dep Surface Inundati Water-S ield Obser Surface Wat Vater Table	GY drology Indic cators (any on Water (A1) ater Table (A2 on (A3) larks (B1) (No the Deposits (B posits (B3) (No Soil Cracks (B on Visible on tained Leaves vations: er Present? Present?	ie indic ) 20 (Noi onriver 36) Aerial I 5 (B9) Y Y Y	ator is suff Ine) nriverine) Tine) magery (B es es es	<ul> <li>Salt Crust</li> <li>Biotic Crust</li> <li>Aquatic In</li> <li>Hydrogen</li> <li>Oxidized F</li> <li>Presence</li> <li>Recent Irc</li> <li>7) Other (Exp</li> <li>No / Depth (in</li> <li>No / Depth (in</li> <li>No / Depth (in</li> </ul>	st (B12) vertebrate Sulfide O Rhizosphe of Reduce n Reduction n Re	es (B13) dor (C1) res along ed iron (C4 on in Plow emarks)	1) ved Soils (0	ts (C3)	econdary Water Sedim Drift I Drains Dry-S Thin M Crayfi Satura Shallo FAC-1	/ Indicator Marks (E hent Deposits (I age Patter eason Wa /luck Surf sh Burrow ation Visite w Aquitar Neutral Te	rs (2 or more sits (B2) (RI sits (B2) (RI 33) (Riverin ms (B10) ater Table (C ace (C7) vs (C8) ble on Aerial rd (D3) est (D5)	required) e) verine) e) 2) Imagery (C9
Depth (in Remarks: YDROLO Vetland Hy Primary India Surface High Wa Saturatio Vater N Sedimer Drift Dep Surface Inundati Water-S field Obser Surface Wat Vater Table Saturation P	GY drology Indic cators (any on Water (A1) ater Table (A2 on (A3) farks (B1) (No nt Deposits (B Solit Cracks (I on Visible on tained Leaves vations: er Present? Present? present? present? corded Data (	ie indic ) 2) (Noi conriver 36) Aerial I 5 (B9) Y Y Y Y	ator is suff Ine) nriverine) Tine) magery (B es es es	<ul> <li>Salt Crust</li> <li>Biotic Crust</li> <li>Aquatic In</li> <li>Hydrogen</li> <li>Oxidized F</li> <li>Presence</li> <li>Recent Irc</li> <li>Other (Exp</li> </ul> No   Depth (in	st (B12) vertebrate Sulfide O Rhizosphe of Reduce n Reduction n Re	es (B13) dor (C1) res along ed iron (C4 on in Plow emarks)	1) ved Soils (0	ts (C3)	econdary Water Sedim Drift I Drains Dry-S Thin M Crayfi Satura Shallo FAC-1	/ Indicator Marks (E hent Deposits (I age Patter eason Wa /luck Surf sh Burrow ation Visite w Aquitar Neutral Te	rs (2 or more sits (B2) (RI sits (B2) (RI 33) (Riverin ms (B10) ater Table (C ace (C7) vs (C8) ble on Aerial rd (D3) est (D5)	required) e) verine) e) 2) Imagery (C9
Depth (in Remarks: YDROLO Vetland Hy Primary India Surface High Wa Saturatio Vater M Sedimer Drift Dep Surface Inundati Water-S field Obser Surface Wat Vater Table Saturation P includes car Describe Re ACPLO	GY drology Indic cators (any on Water (A1) ater Table (A2 on (A3) larks (B1) (No the Deposits (B posits (B3) (No Soil Cracks (B on Visible on tained Leaves vations: er Present? Present?	ie indic ) 2) (Noi conriver 36) Aerial I 5 (B9) Y Y Y Y	ator is suff Ine) nriverine) Tine) magery (B es es es	<ul> <li>Salt Crust</li> <li>Biotic Crust</li> <li>Aquatic In</li> <li>Hydrogen</li> <li>Oxidized F</li> <li>Presence</li> <li>Recent Irc</li> <li>7) Other (Exp</li> <li>No / Depth (in</li> <li>No / Depth (in</li> <li>No / Depth (in</li> </ul>	st (B12) vertebrate Sulfide O Rhizosphe of Reduce n Reduction n Re	es (B13) dor (C1) res along ed iron (C4 on in Plow emarks)	1) ved Soils (0	ts (C3)	econdary Water Sedim Drift I Drains Dry-S Thin M Crayfi Satura Shallo FAC-1	/ Indicator Marks (E hent Deposits (I age Patter eason Wa /luck Surf sh Burrow ation Visite w Aquitar Neutral Te	rs (2 or more sits (B2) (RI sits (B2) (RI 33) (Riverin ms (B10) ater Table (C ace (C7) vs (C8) ble on Aerial rd (D3) est (D5)	required) e) verine) e) 2) Imagery (C9
Depth (in Remarks: YDROLO Vetland Hy Primary India Surface High Wa Saturatio Vater N Sedimer Drift Dep Surface Inundati Water-S field Obser Surface Wat Vater Table Saturation P	GY drology Indic cators (any on Water (A1) ater Table (A2 on (A3) farks (B1) (No nt Deposits (B Solit Cracks (I on Visible on tained Leaves vations: er Present? Present? present? present? corded Data (	ie indic ) 2) (Noi conriver 36) Aerial I 5 (B9) Y Y Y Y	ator is suff Ine) nriverine) Tine) magery (B es es es	<ul> <li>Salt Crust</li> <li>Biotic Crust</li> <li>Aquatic In</li> <li>Hydrogen</li> <li>Oxidized F</li> <li>Presence</li> <li>Recent Irc</li> <li>7) Other (Exp</li> <li>No / Depth (in</li> <li>No / Depth (in</li> <li>No / Depth (in</li> </ul>	st (B12) vertebrate Sulfide O Rhizosphe of Reduce n Reduction n Re	es (B13) dor (C1) res along ed iron (C4 on in Plow emarks)	1) ved Soils (0	ts (C3)	econdary Water Sedim Drift I Drains Dry-S Thin M Crayfi Satura Shallo FAC-1	/ Indicator Marks (E hent Deposits (I age Patter eason Wa /luck Surf sh Burrow ation Visite w Aquitar Neutral Te	rs (2 or more sits (B2) (RI sits (B2) (RI 33) (Riverin ms (B10) ater Table (C ace (C7) vs (C8) ble on Aerial rd (D3) est (D5)	required) e) verine) e) 2) Imagery (C9
Depth (in Remarks: YDROLO Vetland Hy Primary India Surface High Wa Saturatio Vater M Sedimer Drift Dep Surface Inundati Water-S field Obser Surface Wat Vater Table Saturation P includes car Describe Re ACPLO	GY drology Indic cators (any on Water (A1) ater Table (A2 on (A3) farks (B1) (No nt Deposits (B Solit Cracks (I on Visible on tained Leaves vations: er Present? Present? present? present? corded Data (	ie indic ) 2) (Noi conriver 36) Aerial I 5 (B9) Y Y Y Y	ator is suff Ine) nriverine) Tine) magery (B es es es	<ul> <li>Salt Crust</li> <li>Biotic Crust</li> <li>Aquatic In</li> <li>Hydrogen</li> <li>Oxidized F</li> <li>Presence</li> <li>Recent Irc</li> <li>7) Other (Exp</li> <li>No / Depth (in</li> <li>No / Depth (in</li> <li>No / Depth (in</li> </ul>	st (B12) vertebrate Sulfide O Rhizosphe of Reduce n Reduction n Re	es (B13) dor (C1) res along ed iron (C4 on in Plow emarks)	1) ved Soils (0	ts (C3)	econdary Water Sedim Drift I Drains Dry-S Thin M Crayfi Satura Shallo FAC-1	/ Indicator Marks (E hent Deposits (I age Patter eason Wa /luck Surf sh Burrow ation Visite w Aquitar Neutral Te	rs (2 or more sits (B2) (RI sits (B2) (RI 33) (Riverin ms (B10) ater Table (C ace (C7) vs (C8) ble on Aerial rd (D3) est (D5)	required) e) verine) e) 2) Imagery (C9
Depth (in Remarks: YDROLO Vetland Hy Primary India Surface High Wa Saturatio Drift Dep Surface Inundati Water S ield Obser Surface Wat Vater Table saturation Pincludes cap Pescribe Ren	GY drology Indic cators (any on Water (A1) ater Table (A2 on (A3) farks (B1) (No nt Deposits (B Sooits (B3) (Ni Soil Cracks (I on Visible on tained Leaves vations: er Present? Present? present? present? corded Data (	ie indic ) 2) (Noi conriver 36) Aerial I 5 (B9) Y Y Y Y	ator is suff Ine) nriverine) Tine) magery (B es es es	<ul> <li>Salt Crust</li> <li>Biotic Crust</li> <li>Aquatic In</li> <li>Hydrogen</li> <li>Oxidized F</li> <li>Presence</li> <li>Recent Irc</li> <li>7) Other (Exp</li> <li>No / Depth (in</li> <li>No / Depth (in</li> <li>No / Depth (in</li> </ul>	st (B12) vertebrate Sulfide O Rhizosphe of Reduce n Reduction n Re	es (B13) dor (C1) res along ed iron (C4 on in Plow emarks)	1) ved Soils (0	ts (C3)	econdary Water Sedim Drift I Drains Dry-S Thin M Crayfi Satura Shallo FAC-1	/ Indicator Marks (E hent Deposits (I age Patter eason Wa /luck Surf sh Burrow ation Visite w Aquitar Neutral Te	rs (2 or more sits (B2) (RI sits (B2) (RI 33) (Riverin ms (B10) ater Table (C ace (C7) vs (C8) ble on Aerial rd (D3) est (D5)	required) ) verine) e) :2) Imagery (C9
Depth (in lemarks: <b>/DROLO</b> Vetland Hy rimary India Surface High Wa Saturation Drift Dep Surface Inundati Water Saturation Water Table aturation Pi ncludes cap escribe Ref	GY drology Indic cators (any on Water (A1) ater Table (A2 on (A3) farks (B1) (No nt Deposits (B Sooits (B3) (Ni Soil Cracks (I on Visible on tained Leaves vations: er Present? Present? present? present? corded Data (	ie indic ) 2) (Noi conriver 36) Aerial I 5 (B9) Y Y Y Y	ator is suff Ine) nriverine) Tine) magery (B es es es	<ul> <li>Salt Crust</li> <li>Biotic Crust</li> <li>Aquatic In</li> <li>Hydrogen</li> <li>Oxidized F</li> <li>Presence</li> <li>Recent Irc</li> <li>7) Other (Exp</li> <li>No / Depth (in</li> <li>No / Depth (in</li> <li>No / Depth (in</li> </ul>	st (B12) vertebrate Sulfide O Rhizosphe of Reduce n Reduction n Re	es (B13) dor (C1) res along ed iron (C4 on in Plow emarks)	1) ved Soils (0	ts (C3)	econdary Water Sedim Drift I Drains Dry-S Thin M Crayfi Satura Shallo FAC-1	/ Indicator Marks (E hent Deposits (I age Patter eason Wa /luck Surf sh Burrow ation Visite w Aquitar Neutral Te	rs (2 or more sits (B2) (RI sits (B2) (RI 33) (Riverin ms (B10) ater Table (C ace (C7) vs (C8) ble on Aerial rd (D3) est (D5)	required) ) verine) e) :2) Imagery (CS

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Applicant/Owner:       COUNTY OF ROMO       State:       CA       Sampling Point:       216         Investigator(s):       R. BPCK       LSEE, I.S. BLAC       Section, Township, Range:       Sect. SS, T. LoS, R. 9W, SBB/Y         Landform (hillislope, terrace, etc.):       TeVTACC       Local relief (conceve, convex, none):       CMCALVE       SUbregion (LRR):       LRR       Local relief (conceve, convex, none):       CMCALVE       SUbregion (LRR):       LRR       Lat:	Project/site: San Dialo Creek Post - Interim city/county: Orar	ne County Sampling Date: 4/19/07
Investigator(s): <u>Q. Bpc(P. L. Cee</u> , <u>YW. Salter</u> Section, Township, Range: <u>Sec. SS</u> , <u>T. US</u> , <u>R.4W</u> , <u>SBBW</u> Jandrom (Illistope, terrace, etc.): <u>Terrace</u> Supergion (LRR): <u>LRR</u> <u>C</u> Lat: <u>Intrace</u> <u>Local relif</u> (concexe, convex, nons): <u>CMCAUE</u> <u>soure</u> (With Supergion (LRR): <u>LRR</u> <u>C</u> Lat: <u>Intrace</u> <u>Local relif</u> (concexe, convex, nons): <u>CMCAUE</u> <u>soure</u> (With Sold Mp Unit Name: <u>T. Vala</u> <u>Flatts</u> Not assification: <u>E. IUBL</u> Are significantly disturbed? <u>Not</u> <u>Mithades</u> <u>interactions</u> <u>Sold</u> <u>Not</u> <u>Not</u> <u>soure</u> <u>Sold</u> <u>Not</u> <u>Not</u> <u>Not</u> <u>Not</u> <u>Sold</u> <u>Not</u> <u>No</u>		
androm (hillslope, tense, efs.): YEVALC       Local relief (conceve, convex, none): CUDCAULC       Sign (%):		ange: Ser. 58, T. 65, R.9W, SBBM
babregion (LRR): LRR C Lat: -I∏ . &&272.5 Long: 33. & 51043 Datum: MAD 8 babregion (LRR): LRR C LATI (AL - Flat S - 10.8 & 272.5 Long: 33. & 51043 Datum: MAD 8 babregion (LRR): LRR C		
oil Map Unit Name:       Tidal flats       NMI classification:       EIUBL         re elimatic / hydrologic conditions on the site typical for this time of year? Yes       No       (ff no, explain in Remarks)         re Vegetation       Soilor Hydrologyisignificently disturbed?       Are "Normal Circumstances" present? Yes / No         UMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, eli Hydrology Present?       Yes / No /         Hydrologic Resent?       Yes / No /       Is the Sampled Area within a Watland?       No /         Wetland Hydrology Present?       Yes / No /       Is the Sampled Area within a Watland?       No /         Remarks:       No /       Is the Sampled Area within a Watland?       No /       (A)         Tee Stratum       Obscient?       Yes /       No /		
re climatic / hydrologie conditions on the site hybrid for this time of year? Yes No (if no, explain in Remarks.) re Vegetation Soil or Hydrology enginficently disturbed? Are "Mormal Circumstances" present? Yes No re Vegetation Soil or Hydrology neturally problematic? (if ne eded, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, ef Hydrophytic Vegetation Present? Yes No Is the Sampled Area within a Wetland? Yes No Remarks:  EGETATION  EGETATION  EGETATION  Tree Stratum (Use sclentific names.)		
re Vegetation Soil or Hydrology significently disturbed? Are "Normal Circumstances" present? Yes No re Vegetation Soil or Hydrology neturally problematic? (If needed, explain any enswers in Remarks.) UUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, el  Hydrophylic Vegetation Present? Yes No Is the Sampled Area Within a Wetland Hydrology Present? Yes No within a Wetland? Yes No (A) Tree Stratum (Use scientific names.) Absolute Dominance Test worksheet: Tree Stratum (Use scientific names.) Absolute Dominance Test worksheet: Tree Stratum (Use scientific names.) Absolute Dominant Endicator Number of Dominant Species (A) Total Cover: Total Cover: Total Cover: COL Total Cover: COL Total Cover: COL Autoby by: Seques Area COL Autoby by: OBL species X3 = FACU species (A) Total Cover: COL COL COL Autiby by: OBL species X3 = FACU species X4 =  UPt species X3 = FACU species X4 =  UPt species X3 =  FACU Species X4 =  UPt species X3 =  Golumn Totals: (A) Autibut soil and wetland hydrology must be present? Yes No Hydrophylic Vegetation Indicators		
re Vegetation		
UMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, ef         Hydrophytic Vegetation Present?       YesNo		
Hydrophytic Vegetation Present?       YesNo       Is the Sampled Area within a Wetland?       YesNo         Hydrophytic Vegetation Present?       YesNo       No       Is the Sampled Area within a Wetland?       YesNo         EGETATION		
Hydric Soil Present?       Yes       No       within a Watland?       Yes       No         EGETATION       Absolute       Dominante indicator       Dominance Test worksheet:       No         Tree Stratum       (Use scientific names.)       % Cover       Species?       Status       Number of Dominant Species         1.	SUMMARY OF FINDINGS – Attach site map showing sampling point	locations, transects, important features, etc.
Hydric Soll Present? Yes No   Wetland Hydrology Present? Yes No     EGETATION     Tree Stratum (Use solentific names.)   % Cover Species?   Status Stratum   1 Second Cover   3 Total Cover   4 Total Cover   3 Total Cover   4 Total Cover   4 Total Cover   5 Total Cover   6 Stratum   1 Total Cover   70 FACU species   70 Prevalence Index worksheet:   Total Cover Multiply by   0B species x 1 =   70 FACU species   70 Prevalence Index worksheet:   Total Cover: Total Cover:   70 Prevalence Index worksheet:   70 Total Cover:   70 FACU species   70 FACU species </td <td>Hydrophytic Vegetation Present? Yes 📈 No Is the Sample</td> <td>d Area</td>	Hydrophytic Vegetation Present? Yes 📈 No Is the Sample	d Area
Wetland Hydrology Present?       Yes       No         Remarks:       EGETATION       Absolute       Dominant Indicator         Tree Stratum       (Use scientific names.)	Hydric Soil Present? Yes <u>No </u> within a Wetla	
EGETATION       Absolute       Dominant Indicator       Dominance Test worksheet:         1	Wetland Hydrology Present? Yes <u>Ves</u> No	
Absolute       Dominant indicator       Dominant Species         1.	Remarks:	
Absolute       Dominant indicator       Dominant Species         1.		
Absolute       Dominant indicator       Dominant Species         1.		
Tree Stratum       (Use scientific names.)       % Cover       Species7       Status         1		
Image: Second Stratum       Total Cover:       Image: Second Stratum       (A)         Image: Second Stratum       Total Cover:       Image: Second Stratum       (B)         Image: Second Stratum       Total Cover:       Image: Second Stratum       (B)         Image: Second Stratum       Total Cover:       Image: Second Stratum       (B)         Image: Second Stratum       Total Cover:       Image: Total Stratum       (Image: Second Stratum       (Image: Second Stratum         Image: Second Stratum       Image: Second Stratum       Total Stratum       Image: Second Stratum       (Image: Second Stratum       (Image: Second Stratum         Image: Second Stratum       Image: Second Stratum       Image: Second Stratum       Image: Second Stratum       Image: Second Stratum       Image: Second Stratum       Image: Second Stratum       Image: Second Stratum       Image: Second Stratum       Image: Second Stratum       Image: Second Stratum       Image: Second Stratum       Image: Second Stratum       Image: Second Stratum       Image: Second Stratum       Image: Second Stratum       Image: Second Stratum       Image: Second Stratum       Image: Second Stratum       Image: Second Stratum       Image: Second Stratum       Image: Second Stratum       Image: Second Stratum       Image: Second Stratum       Image: Second Stratum       Image: Second Stratum       Image: Second Stratum       Image: Second Stratum <td></td> <td></td>		
Zerodian       Total Number of Dominant Species Across All Strata:       (B)         At       Total Cover:       Total Cover:       Total Number of Dominant Species That Are OBL, FACW, or FAC:       / OD       (Are         Sapiling/Shrub Stratum       Total Cover:       Total % Cover of:       Multiply by:       (Are         Sapiling/Shrub Stratum       Total % Cover of:       Multiply by:       (Are         Sapiling/Shrub Stratum       Total % Cover of:       Multiply by:       (Are         Sapiling/Shrub Stratum       Total % Cover of:       Multiply by:       (Are         Sapiling/Shrub Stratum       Total % Cover of:       Multiply by:       (Are         Sapiling/Shrub Stratum       Total % Cover of:       Multiply by:       (Are         Sapiling/Shrub Stratum       Total Cover:       Total % Cover of:       Multiply by:       (Are         Sapiling/Shrub Stratum       Total Cover:       Total Cover:       Column Totals:       (A)       (B)         Sapiling/Shrub Stratum       Total Cover:       Column Totals:       (A)       (B)         Sapiling/Shrub Stratum       Total Cover:       Column Totals:       (A)       (B)         Sapiling/Shrub Stratum       Total Cover:       Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)		
a.       Total Cover:       ////////////////////////////////////		
Total Cover:		
Total Cover:		
Prevalence Index worksheet:         Total % Cover of:       Multiply by:         Base in the stratum       Multiply by:         Base in the stratum       Total Cover:         Total Cover:       Total Cover:         Total Cover:       Total Cover:         Total Cover:       Total Cover:         Multiply by:       Salid fail (A)         FACU species       x 4 =	Total Cover:	
2	Sapling/Shrub Stratum	Developer Indev spekeboet
OBL species x 1 =	Eaccharis saliatoria 10	
FACW species       x 2 =		
FAC species       x 3 =		
Total Cover:       Total Cover:       Total Cover:       Total Cover:       FACU species       x 4 =		
Herb Stratum       UPL species       x 5 =		
Column Totals:       (A)       (B)         Prevalence Index = B/A =       (B)         Hydrophytic Vegetation Indicators:       Dominance Test is >50%         Prevalence Index is \$3.01       Prevalence Index is \$3.01         Morphological Adaptations1 (Provide supporting data in Remarks or on a separate sheet)       Problematic Hydrophytic Vegetation1 (Explain)         Yoody Vine Stratum       Total Cover:       Problematic Hydrophytic soil and wetland hydrology must be present.         Hydrophytic       Yes No	Jerb Stratum	UPL species x 5 =
Hydrophytic Vegetation Indicators:         ✓ Dominance Test is >50%         Prevalence Index is ≤3.01         Morphological Adaptations1 (Provide supporting data in Remarks or on a separate sheet)         Problematic Hydrophytic Vegetation 1 (Explain)         Yoody Vine Stratum         Total Cover:         Total Cover:         Total Cover:         Total Cover:         Yoody Vine Stratum         Yoody Vine Stratum         Yoody Vine Stratum         Yoody Vine Stratum         Yotal Cover:         Yotal Cover:         Yotal Cover:         Yotal Cover:         Yegetation	·	Column Totals: (A) (B)
Hydrophytic Vegetation Indicators:         ✓       Dominance Test is >50%	)	
✓       Dominance Test is >50%		
	),	
Total Cover:	7 '	data in Remarks or on a separate sheet)
Woody Vine Stratum       Indicators of hydric soil and wetland hydrology must be present.         Indicators of hydric soil and wetland hydrology must be present.         Total Cover:       Hydrophytic Vegetation Present?         Keare Ground in Herb Stratum       % Cover of Biotic Crust       Present?		Problematic Hydrophytic Vegetation ¹ (Explain)
* Indicators of hydric soil and wetland hydrology must be present.         * Total Cover:		
Total Cover:     Hydrophytic       6 Bare Ground in Herb Stratum     30     % Cover of Biotic Crust     Present?     Yes     No		
Total Cover:       Hydrophytic         6 Bare Ground in Herb Stratum       36       % Cover of Biotic Crust       Yes         No		be present.
6 Bare Ground in Herb Stratum <u>30</u> % Cover of Biotic Crust Present? Yes <u>V</u> No	································	
	24	Vegetation Present? Yes No
	(emarks:	

OIL			
Profile Desc	ription: (Describe to the dep	th needed to document the Indicator or o	confirm the absence of Indicators.)
Depth	Matrix	Redox Features Color (moist) % Type ¹ L	oc ² Remarks
(inches)	<u>Color (moist)</u> %		
0-20	10YR 5/3 100		Sand
	<u></u>		
	Management Company of the South South State of the South State South State St		
 T		=Reduced Matrix. ² Location: PL=Pore Li	ning PC-Poot Channel M=Matrix
		LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Solis ³ :
•			1 cm Muck (A9) (LRR C)
Histosol I	ipedon (A2)	Sandy Redox (S5) 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)	
Depleted	Below Dark Surface (A11)	Depleted Dark Surface (F7)	
Thick Date	rk Surface (A12)	Redox Depressions (F8)	2
	ucky Mineral (S1)	Vernal Pools (F9)	³ Indicators of hydrophytic vegetation and
	eyed Matrix (S4)		wetland hydrology must be present.
Restrictive L	ayer (if present):		
Type:			
Depth (inc			
	hes):		Hydric Soil Present? Yes No
Remarks:		L.	Hydric Soil Present? Yes No
Remarks:		L.	
Remarks: YDROLOC		L.	Secondary Indicators (2 or more required)
Remarks: YDROLOC Vetland Hyd	3Y		<u>Secondary Indicators (2 or more required)</u> Water Marks (B1) (Riverine)
YDROLOC Vetland Hyd Primary Indica	SY rology Indicators:		<u>Secondary Indicators (2 or more required)</u> Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
YDROLOC Vetland Hyd Irimary Indica Surface V	SY rology Indicators: ators (any one indicator is suffi	cient)	<u>Secondary Indicators (2 or more required)</u> <u> </u>
YDROLOC Vetland Hyd Irimary Indica Surface V	<b>GY</b> rology Indicators: ators (any one indicator is suffi Vater (A1) er Table (A2)	cient) Salt Crust (B11)	<u>Secondary Indicators (2 or more required)</u> <u>Water Marks (B1) (Riverine)</u> Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
YDROLOC Yetland Hyd Yuffard Hyd Surface V High Wat Saturation	<b>GY</b> rology Indicators: ators (any one indicator is suffi Vater (A1) er Table (A2)	cient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	<u>Secondary Indicators (2 or more required)</u> Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
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YDROLOC Vetland Hyd Surface V High Wat Saturation Water Ma Ysediment	GY rology Indicators: ators (any one indicator is suffi Vater (A1) er Table (A2) n (A3) Irks (B1) (Nonriverine)	cient) 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) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8)
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Pemarks: YDROLOC Vetland Hyd Irimary Indica Surface V High Wat Saturation Water Ma Sediment Drift Depo Surface S	<b>BY</b> rology Indicators: <u>ators (any one indicator is suffi</u> Vater (A1) er Table (A2) n (A3) irks (B1) (Nonriverine) Deposits (B2) (Nonriverine) posits (B3) (Nonriverine)	cient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed	Secondary Indicators (2 or more required)
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Project/site: San Dialo Creek Post - Int	erim	City/Cour	nty: Oray	me County sampling Date: 4/19/07
Applicant/Owner: COUVAU OF OVAME RIDY	no			State: CA Sampling Point: 27
Investigator(s): R. BPCK, L. See, W. Sal-	ter	Section.	Township, R	
Landform (hillslope, terrace, etc.): <u>+evra(e</u>				
				Long: 33.651/64 Datum: NAD 83
Soil Map Unit Name: Tidal flats				
Are climatic / hydrologic conditions on the site typical for th	is time of ve	ar? Yes	/	
Are Vegetation, Soil, or Hydrology				"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology				eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map				
. 1				
	lo lo		the Sample	
	10	wi	thin a Wetla	nd? Yes <u>No</u>
Remarks:				
VEGETATION				
Tree Stratum (Use scientific names.)	Absolute		nt Indicator	Dominance Test worksheet:
1			<u>? Status</u>	Number of Dominant Species 2 (A)
2				
3.				Total Number of Dominant
4				Devent of Device of Consist
Total Cover	;			Percent of Dominant Species IDD (A/B)
<u>Sapling/Shrub Stratum</u> 1. <u>Barchavis</u> salici folla	30	$\checkmark$	FACW	Prevalence Index worksheet:
2			12100-	Total % Cover of: Multiply by:
3			······································	OBL species x 1 =
4				FACW species x 2 =
5				FAC species x 3 =
Total Cover	: 30_			FACU species x 4 =
1. SCIPPUS SSD.	60	$\checkmark$	OBL	UPL species x 5 = (2)
2	<u> </u>		VIDE	Column Totals: (A) (B)
3.				Prevalence Index = B/A =
4				Hydrophytic Vegetation Indicators:
5			<u> </u>	∠ Dominance Test is >50%
6				Prevalence Index is ≤3.0 ¹
7			ad Anana and a second	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
8	1.0	<u></u>	. <u> </u>	Problematic Hydrophytic Vegetation ¹ (Explain)
Total Cover: Woody Vine Stratum	<u> </u>			
1				¹ Indicators of hydric soil and wetland hydrology must
2				be present.
Total Cover:				Hydrophytic Vegetation
% Bare Ground in Herb Stratum % Cover	of Biotic Cri	ust		Vegetation Present? Yes <u>No</u>
Remarks:				1
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Profile Door	crintian. (Deceribe	to the day	of headed to door	ument the ind	licator or confirm	the absence	of indicators.	)	
		i to the dep			incator of commit		, or marculor of		
Depth (inches)	Matrix Color (moist) %		<u>Redox Features</u> Color (moist) <u>% Type¹ Loc²</u>			Texture Remarks			
0-9	2.5 Y 3/2	95	10YR4/6	5		sandy	100000		
			TOTK TU		Egec				
9-20	N 2.5/Ø	100				sandyl	vam		
	1								
		-			······································		<u></u>		
Type: C=C	oncentration, D=Dep	pletion, RM	=Reduced Matrix.	² Location: F	PL=Pore Lining, R	C=Root Chan	nel, M=Matrix. for Problemat	La Hudria Sall	_د ۶.
lydric Soll	Indicators: (Applic	cable to all	LRRs, unless oth	erwise noted.	.)				5.
Histosol			Sandy Re				Muck (A9) (LRR		
	pipedon (A2)			Matrix (S6)			Muck (A10) (LR		2 · · ·
Black Hi				ucky Mineral (F	-		ed Vertic (F18)		
	en Sulfide (A4)			eyed Matrix (F	2)	and the second sec	Parent Material (		
	d Layers (A5) (LRR	C)	·	Matrix (F3)		Other	(Explain in Ren	narks)	
	uck (A9) (LRR D)			rk Surface (F6					
	d Below Dark Surfac	ce (A11)		Dark Surface (					
	ark Surface (A12)			pressions (F8)	)	³ In directors	ofhydrophytic	venetation and	4
	Mucky Mineral (S1)		Vernal Po	015 (F9)			t hydrology mus		•
	Gleyed Matrix (S4)					Wellanc			
	Layer (if present):								
Type:								es 🔨 🛛 N	ю
Depth (in	ches):					Hydric Soil	Present? Y		·····
Remarks:						_L			
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YDROLO					λ.				quired)
YDROLO Wetland Hyd	drology Indicators:				٤.		ndary Indicators		quired)
YDROLO Wetland Hyd			īcient)		ξ.	V	Vater Marks (B1	I) (Riverine)	
YDROLO Wetland Hy Primary Indic	drology Indicators:		īcient) Salt Crus		ξ.	V	Vater Marks (B1 Sediment Depos	I) (Riverine) sits (B2) (River	
YDROLO Netland Hy Primary India Surface	drology Indicators: cators (any one indic		Salt Crus		λ.	V	Vater Marks (B1	I) (Riverine) sits (B2) (River	
YDROLO Wetland Hy Primary India Surface High Wa	drology Indicators: cators (any one indic Water (A1) ater Table (A2)		Salt Crus Biotic Cru	st (B11)		v s t	Vater Marks (B1 Sediment Depos	I) (Riverine) sits (B2) (River 3) (Riverine)	
YDROLO Vetland Hyd Primary India Surface High Wa Saturatio	drology Indicators: <u>cators (any one indic</u> Water (A1) ater Table (A2) on (A3)	<u>ator is suff</u>	Salt Crus Biotic Cru Aquatic I	st (B11) ust (B12) nvertebrates (I	B13)	V s t	Vater Marks (B ⁻ Sediment Depos Drift Deposits (B	I) (Riverine) sits (B2) (River 3) (Riverine) as (B10)	
YDROLO Vetland Hyd Primary India Surface High Wa Saturatio Water M	drology Indicators: cators (any one indic Water (A1) ater Table (A2) on (A3) farks (B1) (Nonriver	ator is suff	Salt Crus Biotic Cru Aquatic I Hydrogel	st (B11) ust (B12) nvertebrates (I n Sulfide Odor	B13) (C1)	v s c c	Vater Marks (B Sediment Depos Drift Deposits (B Drainage Patterr Dry-Season Wat	I) (Riverine) sits (B2) (River 3) (Riverine) ns (B10) ser Table (C2)	
YDROLO Netland Hyd Primary India Surface High Wa Saturatia Water M yater M	drology Indicators: cators (any one indic Water (A1) ater Table (A2) on (A3) farks (B1) (Nonriver ht Deposits (B2) (No	ator is suff Ine) Inriverine)	Salt Crus Biotic Cru Aquatic I Hydroget Oxidized	st (B11) ust (B12) nvertebrates (I n Sulfide Odor Rhizospherės	B13) (C1) ; along Living Roo	V C C C C C ts (C3) T	Vater Marks (B [*] Sediment Depos Drift Deposits (B Drainage Patterr Dry-Season Wal Thin Muck Surfa	I) (Riverine) sits (B2) (River 3) (Riverine) ns (B10) ser Table (C2) ce (C7)	
YDROLO Netland Hyu Primary Indio Surface High Wa Saturatio Water M Vater M Sedimer Drift Dep	drology Indicators: cators (any one indic Water (A1) ater Table (A2) on (A3) farks (B1) (Nonriver nt Deposits (B2) (No posits (B3) (Nonrive	ator is suff Ine) Inriverine)	Salt Crus Biotic Cru Aquatic I Hydrogel Oxidized Presence	st (B11) ust (B12) nvertebrates (I n Sulfide Odor Rhizospherės e of Reduced I	B13) (C1) ; along Living Roo ron (C4)	V S S S S ts (C3) T C	Vater Marks (B ² Sediment Depos Drift Deposits (B Drainage Patterr Dry-Season Wal Din Muck Surfa Drayfish Burrow	I) (Riverine) sits (B2) (River 3) (Riverine) ns (B10) ter Table (C2) ce (C7) s (C8)	ine)
YDROLO Netland Hyu Primary Indic Surface High Wa Saturatio Water M Vater M Sedimer Drift Dep Surface	drology Indicators: cators (any one indic Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriver nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6)	tator is suff Ine) nriverine) rine)	Salt Crus Biotic Cru Aquatic I Hydrogel Oxidized Presence Recent Ir	st (B11) ust (B12) nvertebrates (I n Sulfide Odor Rhizospherés e of Reduced I ron Reduction	B13) (C1) s along Living Roo ron (C4) in Plowed Soils (C	V S C C ts (C3) T C C6) S	Vater Marks (B ² Sediment Depos Orift Deposits (B Orainage Patterr Ory-Season Wal Din Muck Surfa Crayfish Burrow Saturation Visibi	I) (Riverine) sits (B2) (River 3) (Riverine) ns (B10) ser Table (C2) ce (C7) s (C8) e on Aerial Ima	ine)
YDROLO Netland Hy Primary India Saturatio High Wa Saturatio Water M Vater M Sedimer Drift Dep Surface Inundati	drology Indicators: cators (any one indic Water (A1) ater Table (A2) on (A3) farks (B1) (Nonriver nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial	tator is suff Ine) nriverine) rine)	Salt Crus Biotic Cru Aquatic I Hydrogel Oxidized Presence Recent Ir	st (B11) ust (B12) nvertebrates (I n Sulfide Odor Rhizospherės e of Reduced I	B13) (C1) s along Living Roo ron (C4) in Plowed Soils (C	V S C C ts (C3) T C C6) S	Vater Marks (B ² Sediment Deposits (B Drainage Patterr Dry-Season Wal Thin Muck Surfa Crayfish Burrow Saturation Visibi Shallow Aquitarc	I) (Riverine) sits (B2) (River 3) (Riverine) hs (B10) ser Table (C2) ce (C7) s (C8) e on Aerial Ima d (D3)	ine)
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YDROLO Netland Hy Primary India Saturatia Saturatia Water M Vater M Sedimer Drift Deg Surface Inundati Water-S Field Obser Surface Water Nater Table Saturation Pl	drology Indicators: cators (any one indic Water (A1) ater Table (A2) on (A3) farks (B1) (Nonriver nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial itained Leaves (B9) vations: er Present? Present? Y	rine) nriverine) rine) Imagery (B /es /es	Salt Crus Biotic Crus Aquatic I Hydrogel Oxidized Presence Recent Ir Other (E)	st (B11) ust (B12) nvertebrates (I n Sulfide Odor Rhizospherės e of Reduced I ron Reduction xplain in Rema nches): nches):	B13) (C1) s along Living Roo ron (C4) in Plowed Soils (C arks) 		Vater Marks (B ² Sediment Depos Drift Deposits (B Drainage Patterr Dry-Season Wal Thin Muck Surfa Crayfish Burrow Saturation Visibl Shallow Aquitarc AC-Neutral Tes	I) (Riverine) sits (B2) (River 3) (Riverine) ns (B10) ser Table (C2) ce (C7) s (C8) e on Aerial Ima d (D3) st (D5)	ine) agery (C9)
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Project/Site: San Dinto Creek Post - In	terim	City/Count	ry: Oray	me County Sampling Date: 4/19/07
Applicant/Owner: COUNTU OF OVAME RE				State: <u>CA</u> Śampling Point: <u>28</u>
		Paction T	ounchin D	ange: Sec. SR, T. 6S, R.Q.W, SBBM
Landform (hillslope, terrace, etc.): <u>tcwale</u>				
	Lat: <u>-11</u>	1.84°		Long: <u>33.650829</u> Datum: <u>NAD 83</u>
Soil Map Unit Name: Tidal flats				NWI classification: EIUBL
Are climatic / hydrologic conditions on the site typical for	this time of yea	ar? Yes	<u> </u>	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology		disturbed?	Are	"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology				eeded, explain any answers in Remarks.)
				locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No			
Hydric Soil Present? Yes	No		he Sample	d Area
Wetland Hydrology Present? Yes	No	with	hin a Wetla	nd? Yes <u>No</u> <u>No</u>
Remarks:		l,		
VEGETATION	Absolute	Dominan	t Indicator	Dominance Test worksheet:
Tree Stratum (Use scientific names.)	<u>% Cover</u>			Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata:(B)
4				Demont of Deminent Species
Total Cov	/er:			Percent of Dominant Species 100 (A/B)
Sapling/Shrub Stratum				
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 · Total Cov	er:			FACU species x 4 = UPL species x 5 =
1. Salicornia Virginica	60	$\checkmark$	OBL	Column Totals:         (A) (B)
2 Scivolde SSD.	- <del>4</del> 0	V	OBL	
3				Prevalence Index = B/A =
4				Hydrophytic Vegetation Indicators:
5				∠ Dominance Test is >50%
6				Prevalence Index is ≤3.0 ¹
7				<ul> <li>Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)</li> </ul>
8				1
	er: 100			Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum				1
1				¹ Indicators of hydric soil and wetland hydrology must be present.
2				
Total Cove	er:			Hydrophytic Vegetation
% Bare Ground in Herb Stratum % Cove	er of Biotic Cru	st		Present? Yes No
Remarks:				1
· · · · ·				

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Depth	Matrix	to the def	oth needed to docur Redo	x Features		in the absence	s and a construction of the second
(inches)	Color (moist)	%	Color (moist)		/pe ¹ Loc ²		Remarks
0-20	10YR 3/2	85	7.54R4/6	15	PL	SILE	
******	·						· · · · · · · · · · · · · · · · · · ·
					.=Pore Lining, f		nnel, M=Matrix.
		able to all	LRRs, unless other				s for Problematic Hydric Solls ³ :
Histosol			Sandy Redo				Muck (A9) (LRR C) Muck (A10) (LRR B)
Black Hi	bipedon (A2) stic (A3)		Stripped Ma	ky Mineral (F1	١		ced Vertic (F18)
	en Sulfide (A4)			red Matrix (F2)	•	agarment.	Parent Material (TF2)
	d Layers (A5) (LRR C	2)	,Depleted M				(Explain in Remarks)
1 cm Mu Depleted	ick (A9) (LRR D) d Below Dark Surface ark Surface (A12)		Redox Dark	Surface (F6) ark Surface (F7 ressions (F8)	7)		
	fucky Mineral (S1)		Vernal Pool			³ In dicators	s of hydrophytic vegetation and
	Bleyed Matrix (S4)						d hydrology must be present.
	Layer (if present):						
							/
	ches):					Hydric Soi	I Present? Yes 🗸 No
						1 -	
emarks:							
	GY			۶.			
(DROLO				٤.		Seco	ndary Indicators (2 or more required)
(DROLO	drology Indicators:			<i>ک</i> ر .			ndary Indicators (2 or more required) Nater Marks (B1) (Riverine)
(DROLO /etland Hyd	drology Indicators: ators (any one indica	ator is suffi	/			\	Water Marks (B1) (Riverine)
<b>(DROLO</b> /etland Hyo rimary Indic Surface	drology Indicators: ators (any one indica Water (A1)	ator is suffi	Salt Crust	(B11)		\	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
<b>(DROLO</b> ) /etland Hyd rimary Indic Surface High Wa	drology Indicators: ators (any one indica Water (A1) ter Table (A2)	ator is suffi	Salt Crust ( Biotic Crus	(B11) t (B12)		V	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
<b>(DROLO</b> ) /etland Hyd rimary Indic Surface High Wa Saturatic	drology Indicators: <u>cators (any one indica</u> Water (A1) ter Table (A2) on (A3)	· •	Salt Crust ( Biotic Crus Aquatic Inv	(B11) t (B12) rertebrates (B1	3)	۲ ۲ ۲ ۲ ۱ ۲	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Drainage Patterns (B10)
<b>/DROLO</b> /etland Hyo rimary Indic Surface High Wa Saturatic Water M	drology Indicators: ators (any one indica Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriveri	nə)	Salt Crust ( Biotic Crus Aquatic Inv Hydrogen S	(B11) t (B12) ertebrates (B1 Sulfide Odor (C	3) 21)	۲ ۲ ۶ ۲ ۱ ۲ ۱ ۲	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
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From:	David T. Hughes
То:	Sweeney, Eric R SPL
Cc:	Weaver, Denise
Subject:	[EXTERNAL] RE: San Diego Creek Reach I Maintenance Program - SPL-2016-00160-ERS
Date:	Monday, May 09, 2016 1:26:59 PM

#### Thanks Eric,

I'll work up a map and send it over to you. The channel is a pretty static system given that it's a highly engineered storm channel. The main change over time is the vegetation growth that is a flood control hazard. Could you please clarify what a 'clean excavation' would be?

David Hughes BonTerra Psomas | Balancing the Natural and Built Environment Senior Project Manager Environmental Planning and Resource Management 225 South Lake Avenue, Suite 1000 Pasadena, CA 91101 | 626.351.2000 Blockedwww.Psomas.com

-----Original Message-----From: Sweeney, Eric R SPL [<u>mailto:Eric.R.Sweeney@usace.army.mil</u>] Sent: Monday, May 09, 2016 1:20 PM To: David T. Hughes <david.t.hughes@psomas.com> Cc: Weaver, Denise <Denise.Weaver@ocpw.ocgov.com> Subject: RE: San Diego Creek Reach I Maintenance Program - SPL-2016-00160-ERS

Thanks David - sorry but I actually just realized that I'm going to need to do an AJD for this, rather than a PJD, but I'll still use information you provided on the PJD form.

Could you please also provide me with the map showing the boundaries of wetlands the other waters (as demarcated by the OHWM) within the project area between Jamboree and Campus? The delineation maps you provided include a lot of information and for clarity it would be useful to have just the Corps wetlands and waters indicated.

Also, when was this area last dredged? I noticed that your delineation forms are from 2007. Can you please justify why these delineation forms from nine years ago would still accurately describe Corps jurisdictional resources in the project area?

Additionally, one other possibility I asked about was whether you might attempt clean excavation, in which case you would only need a section 10 LOP for the work. Could you please describe the process that would be used to remove the material and confirm that a discharge of dredged/fill material would be taking place?

Thanks,

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Eric Sweeney Project Manager Regulatory Division, Los Angeles District U.S. Army Corps of Engineers 915 Wilshire Boulevard, Suite 930 Los Angeles, California 90017 213-452-3002 (Office) eric.r.sweeney@usace.army.mil **Please email or FTP all documentation submittals. Email can accept file sizes up to 15mb. For larger files, use the Corps' FTP site at Blockedhttps://safe.amrdec.army.mil/safe/Default.aspx.**

-----Original Message-----

From: David T. Hughes [mailto:david.t.hughes@psomas.com] Sent: Thursday, May 05, 2016 3:25 PM To: Sweeney, Eric R SPL <Eric.R.Sweeney@usace.army.mil> Subject: [EXTERNAL] RE: San Diego Creek Reach I Maintenance Program - SPL-2016-00160-ERS

#### Hi Eric,

I revised our PJD for San Diego Creek as indicated below. Please confirm that we want to call everything Section 10, because the NWI indicates estuarine up to the beginning of the lower basin as we showed in the previous PJD (and riverine/palustrine above that point). I don't know that it makes a huge difference in the larger scheme of things, but I just wanted to confirm with you.

Secondly on the issue of pursuing the Individual Permit, if you think we can get this accomplished on a similar time frame as a NWP/LOP process, then we would like to pursue that option (as it obviously makes sense as a longer term and less complicated solution). Please let me know what information you may need from me to prepare the necessary NEPA documentation.

We are currently performing least Bell's vireo surveys for the project site - please indicate what you may need from me to initiate consultation with USFWS for either a B.O. or ITP.

Thanks!

David Hughes

BonTerra Psomas | Balancing the Natural and Built Environment Senior Project Manager Environmental Planning and Resource Management 225 South Lake Avenue, Suite 1000 Pasadena, CA 91101 | 626.351.2000 Blockedwww.Psomas.com

-----Original Message-----From: Sweeney, Eric R SPL [<u>mailto:Eric.R.Sweeney@usace.army.mil</u>] Sent: Monday, April 25, 2016 12:02 PM To: David T. Hughes <david.t.hughes@psomas.com> Subject: RE: San Diego Creek Reach I Maintenance Program - 404 application status

David, the Corps has established that section 10 jurisdiction extends as far as Campus Drive. Could you please revise your PJD to include all aquatic resources as section 10 waters?

Thanks,

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Eric Sweeney Project Manager Regulatory Division, Los Angeles District U.S. Army Corps of Engineers 915 Wilshire Boulevard, Suite 930 Los Angeles, California 90017 213-452-3002 (Office) eric.r.sweeney@usace.army.mil **Please email or FTP all documentation submittals. Email can accept file sizes up to 15mb. For larger files, use the Corps' FTP site at Blockedhttps://safe.amrdec.army.mil/safe/Default.aspx.**

-----Original Message-----From: David T. Hughes [mailto:david.t.hughes@psomas.com] Sent: Tuesday, April 12, 2016 2:09 PM To: Sweeney, Eric R SPL <Eric.R.Sweeney@usace.army.mil> Subject: [EXTERNAL] RE: San Diego Creek Reach I Maintenance Program - 404 application status

Hi Eric,

I've attached a few items related to your inquiries below. Please find the following:

1. Signed PJD form

2. Map that shows the footprint for Basin 1 (this the area for dredging excess sediment).

Let me know what I else I can provide for your project analysis. Also, I'd like to talk later this week about initiating consultation with USFWS about a B.O. or Take Permit. We are starting least Bell's vireo surveys shortly. Are you available Friday for a discussion about where we stand?

David Hughes BonTerra Psomas | Balancing the Natural and Built Environment Senior Project Manager Environmental Planning and Resource Management 225 South Lake Avenue, Suite 1000 Pasadena, CA 91101 | 626.351.2000 Blockedwww.Psomas.com

-----Original Message-----From: Sweeney, Eric R SPL [mailto:Eric.R.Sweeney@usace.army.mil] Sent: Thursday, March 24, 2016 12:36 PM To: David T. Hughes <david.t.hughes@psomas.com> Cc: Weaver, Denise <Denise.Weaver@ocpw.ocgov.com> Subject: RE: San Diego Creek Reach I Maintenance Program - 404 application status

Hi David,

In addition to the map for the PJD, could you please also make another map showing the proposed footprint for the dredging operation (i.e., Basin 1) relative to the jurisdictional aquatic resources called out in the PJD? What acreage of each type of aquatic resource would be impacted?

Thanks,

Eric Sweeney Project Manager Regulatory Division, Los Angeles District U.S. Army Corps of Engineers 915 Wilshire Boulevard, Suite 930 Los Angeles, California 90017 213-452-3002 (Office) eric.r.sweeney@usace.army.mil

**Please email or FTP all documentation submittals. Email can accept file sizes up to 15mb. For larger files, use the Corps' FTP site at Blockedhttps://safe.amrdec.army.mil/safe/Default.aspx.

-----Original Message-----From: Sweeney, Eric R SPL Sent: Thursday, March 24, 2016 12:00 PM To: 'David T. Hughes' <david.t.hughes@psomas.com> Subject: RE: San Diego Creek Reach I Maintenance Program - 404 application status

David, could you please complete the PJD form, attached?

Please specify the acreage of the following "sites" on page 2:1) Section 10 non-wetland waters (up to mean high tide line)2) Section 404 non-wetland waters (areas between mean high and HTL)3) Section 10 wetland

Please also provide a short comment in "notes" on how the delineated boundaries were determined.

Could you please also make a new map, based on the map you already provided (attached), that shows each of these "sites" for just ACOE jurisdiction?

Thanks,

Eric Sweeney Project Manager Regulatory Division, Los Angeles District U.S. Army Corps of Engineers 915 Wilshire Boulevard, Suite 930 Los Angeles, California 90017 213-452-3002 (Office) eric.r.sweeney@usace.army.mil

**Please email or FTP all documentation submittals. Email can accept file sizes up to 15mb. For larger files, use the Corps' FTP site at Blockedhttps://safe.amrdec.army.mil/safe/Default.aspx.

-----Original Message-----From: David T. Hughes [mailto:david.t.hughes@psomas.com] Sent: Wednesday, March 16, 2016 12:24 PM To: Sweeney, Eric R SPL <Eric.R.Sweeney@usace.army.mil> Subject: [EXTERNAL] RE: San Diego Creek Reach I Maintenance Program - 404 application status

Hi Eric,

I just sent you a link to the Psomas ftp site. You should have just received an email from "italerts@psomas.com" which will provide you a password to access project files. Please feel free to contact me with any additional questions.

Thanks!

David Hughes BonTerra Psomas | Balancing the Natural and Built Environment Senior Project Manager Environmental Planning and Resource Management 225 South Lake Avenue, Suite 1000 Pasadena, CA 91101 | 626.351.2000 BlockedBlockedwww.Psomas.com -----Original Message-----From: Sweeney, Eric R SPL [mailto:Eric.R.Sweeney@usace.army.mil] Sent: Tuesday, March 15, 2016 1:16 PM To: David T. Hughes <david.t.hughes@psomas.com> Subject: RE: San Diego Creek Reach I Maintenance Program - 404 application status

Hi David,

Could you please provide me with an FTP link for the currently available supporting documentation (bio report, etc.) for this project?

Thanks,

Eric Sweeney Project Manager Regulatory Division, Los Angeles District U.S. Army Corps of Engineers 915 Wilshire Boulevard, Suite 930 Los Angeles, California 90017 213-452-3002 (Office) eric.r.sweeney@usace.army.mil

**Please email or FTP all documentation submittals. Email can accept file sizes up to 15mb. For larger files, use the Corps' FTP site at BlockedBlockedhttps://safe.amrdec.army.mil/safe/Default.aspx.

-----Original Message-----From: Estes, Stephen M SPL Sent: Monday, March 07, 2016 9:38 AM To: David T. Hughes <david.t.hughes@psomas.com> Cc: Sweeney, Eric R SPL <Eric.R.Sweeney@usace.army.mil> Subject: RE: San Diego Creek Reach I Maintenance Program - 404 application status

David,

This application is being reviewed by Eric Sweeney (213-452-3002; Eric.R.Sweeney@usace.army.mil) and is Corps File No. SPL-2016-00160-ERS. Eric is out of the office this week but should be back on Monday, March 14th.

Thank you, Steve

-----Original Message-----From: David T. Hughes [mailto:david.t.hughes@psomas.com] Sent: Friday, March 04, 2016 4:15 PM To: Estes, Stephen M SPL <Stephen.M.Estes@usace.army.mil> Subject: [EXTERNAL] San Diego Creek Reach I Maintenance Program - 404 application status

Mr Estes,

OC Public Works submitted an application for maintenance activities and sediment removal in San Diego back in January. I'm working as their consultant on the project, and I haven't received any correspondence from the Corps. I'm wondering if you all sent something back to the County where it might have gotten misplaced(?). Can you tell me the best way to check on status of this application, to see if its been logged into your system?

Appreciate any help - thanks!

David Hughes

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