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1. Summary

The original wetland/upland delineation was performed on properties that surround Martin Slough in September and October, 2008. A new wetland/upland assessment was performed on January 25, 2017 upon request from RCAA to investigate a new area located west of Elk River Road and to confirm areas already delineated. Previous wetland delineations determined the extent of wetland-type vegetation (based on one-parameter) in areas that are within the Coastal Zone, and the extent of wetlands having wetland-type vegetation, hydric soils, and wetland hydrology (based on three-parameters) in areas not in the Coastal Zone. A total of 21 upland transect plots were delineated within the observed wetland area. Figures that present results of both the October 2008 investigation and the updated 2017 investigation are provided in Appendix A. Data sheets documenting conditions observed during both the 2008 and the 2017 investigations are included in Appendix B.

2. Introduction

The area of investigation consisted of evaluation of properties that surround Martin Slough in preparation for the Martin Slough Restoration Project, in Eureka, Humboldt County, California (Figure 1). The area of investigation included lands adjacent to Martin Slough for an approximate 1.5 miles stretch upstream from the existing tide gate at the convergence with Swain Slough. Swain Slough outlets to the Elk River approximately 0.5 miles downstream from Martin Slough. The Elk River then outlets to Humboldt Bay and subsequently to the Pacific Ocean. Properties evaluated included areas adjacent to Martin Slough, as indicated on Figure 2 ("2008 Investigation Boundary") at the following locations:

- Eureka Municipal Golf Course—portions of Assessor's Parcel Numbers (APNs) 301-031-08 and -18 (Figures 3 through 5);
- 2. Portions of four agricultural properties owned by Mr. Gene Senestraro—APNs 301-211-06 & -07, 301-221-01, and 302-161-03 generally located west of the golf course, to the south of Herrick Street along the toe of Pine Hill, and east of Elk River Road (Figures 2 and 3); and,
- Portions of three agricultural properties owned by Mr. Truman Vroman—APNs 305-021-08, -10 & -11 located adjacent to the south and east of the Senestraro properties and accessed from Elk River Road (Figures 2 and 3).
- A new area west of Elk River Road that was recently identified as an area within the project needed by PG&E for construction staging (denoted in purple on Figures 2 and 5).

The Eureka Municipal Golf Course is generally located east of an area known as Pill Hill in south Eureka, California (Figure 1). F Street (runs north-south) is located to the north and east of the course, and then transitions into Fairway Drive, which is a zig-zag portion of road that connects from F Street through the course to Herrick Avenue to the west. Herrick Avenue runs east-west and connects to Highway 101. As indicated on the "Project Area Overview" map (Figure 1), the golf course consists of a northeast portion that surrounds the north branch and the main branch of Martin Slough near their convergence and contains the parking area and office west of F Street that straddles Fairway Drive (see Figure 4), and a southern portion that is located south of Fairway Drive (see Figure 3). The golf course extends to the southwest

adjacent to Martin Slough and terminates at the City of Eureka Limits; the southern edge of the golf course defines the extent of City jurisdiction. The Senestraro and Vroman agricultural properties are beyond the City Limits and are within Humboldt County jurisdiction (see Figures 1).

Portions of the area of investigation are within the Coastal Zone. The Coastal Zone includes the southwest corner of the City of Eureka Limits and the golf course, as well as the entire Vroman and Senestraro properties. The coastal zone map indicates that California Coastal Commission (CC) has primary jurisdiction over land within 100 feet of Martin Slough, and defines the area beyond 100 feet of the slough as being the Appeal Zone for the CC with primary jurisdiction falling to either the County of Humboldt or City of Eureka's Local Coastal Program (LCP), depending on the location (California Coastal Commission, 1986 and 1991).

3. Purpose

The purpose of this investigation was to determine the location of wetlands and uplands in areas adjacent to Martin Slough, in preparation for a restoration project within Martin Slough. The uplands/wetland delineation was performed in accordance with Army Corp of Engineers (USACE) wetlands criteria for areas outside the Coastal Zone and within the City of Eureka Limits (City jurisdiction and USACE oversight of delineation results). The uplands/wetland delineation was performed in accordance with CC criteria for areas within the primary or appeal zone of the California Coastal Commission "Coastal Zone" (with CC, City, or County primary jurisdiction depending on the area; requires CC and USACE oversight of delineation results).

4. Methodology

4.1 Wetland Delineation

The original wetlands delineation was conducted by a Winzler & Kelly (now GHD Inc.) field team consisting of a Soil Scientist and a Botanist. The wetland delineation was conducted over multiple days in September and October 2008, with a follow up visit on January 25, 2017 to investigate a new area west of Elk River Road and to reassess areas already delineated. To define a wetland, the USACE requires that all three parameters (vegetation, soil, and hydrology) show wetland attributes. The CC requires only one parameter to be present in order to define the site as a wetland.

The wetlands delineation followed the USACE criteria (three parameter approach) from the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys and Coast Region (USACE, 2010) within the north and eastern portions of the project area that have City of Eureka primary jurisdiction and are not in the Coastal Zone (City jurisdiction and USACE oversight of delineation results). The wetlands delineation conformed with CC one-parameter approach (relying on USACE manuals for reference and determination) in the western and southern portions of the project area that are within the Coastal Zone (City, County, or CC primary jurisdiction depending on the area; CC and USACE oversight of delineation results). Botany/soils/hydrology data sheets used are the current standard forms provided by the USACE for use (USACE, 2010).

Vegetation and soil data were collected at transects across the upland/wetland boundary with two plots (upland/wetland) per transect. Since a majority of the project acreage consisted of wetland conditions, the methodology focused on locating transects to delineate upland areas (denoted with purple hatching) within the larger wetland areas. Thus, transects are numbered to correlate with each documented upland area (for example for "Upland 1" at "transect #2", upland pit = u1t2-U, wetland pit = u1t2-W, and the coordinating upland/wetland point where the transect intersects along the upland boundary line is numbered u1t2 on the maps). Intermediate plots were placed without collection of data sheets as appropriate (based on extrapolation from adjacent test pits and verification of soil conditions) and are indicated with an "-int" after the point number (i.e. u1t3-int) on data sheets. Additionally, due to the large project acreage, additional confirmation test pits were collected in some areas to confirm the wetland or upland conditions. The confirmation test pits do not consist of paired data sheets, do not necessarily correlate with a transect location, and are respectively individually labeled WP# (wetland pit, with identification number) or UP# (upland pit with identification number), or remain as unlabeled points on Figures ("Other Test Point").

The horizontal location of each point along the upland/wetland boundary (location where each transect intersects the upland/wetland boundary) were collected using a handheld GPS Trimble unit (sub-meter accuracy). To relocate the actual test pit locations (uplands and wetlands), the distance from the upland/wetland boundary line was recorded on each data sheet. Due to the sub-meter accuracy of the GPS unit, it is more accurate to collect the actual distance while in the field and record on each individual data sheet under "remarks." The location of the confirmation test pits (upland or wetland) were also collected using the GPS Trimble unit. The horizontal location of some site infrastructure features (such as bridges) that are visible on the aerial were collected to ensure that the base map lines up accurately with the delineation results. Other site infrastructure features of interest were recorded such as some noticeable pipe outlets/culverts within the slough.

4.2 **Botanical Methodology**

Vegetation data collection consisted of listing the species at each plot in each layer. All species within a radius of five feet were listed in the herb layer. Vegetation/Soils/Hydrology data sheets used are the current standard forms requested by the USACE for use (USACE, 2010). The species were then classified as to whether or not they are wetlands indicators, using the standard reference for plant wetlands indicators: *State of California 2016 Wetland Plant List* (Lichvar et al. 2016). The standard reference document classifies plants based on the probability that they would be found in wetlands, ranging from Obligate (almost always in wetlands) [OBL], Facultative/wet (67% to 99% in wetlands) [FACW], Facultative (34% to 66% in wetlands) [FAC], Facultative/up (1% to 33% in wetlands) [FACU], to Uplands (less than 1% in wetlands) [UP]. Plants not listed in the manual are considered to be in the upland category.

4.3 Soils Methodology

The Regional Supplement to the Corps of Engineers Wetland Delineation Manual (USACE, 2010) procedures were combined with the Natural Resources Conservation Service's (NRCS) definition of hydric soils presented in Changes in Hydric Soils of the United States and Field Indicators of Hydric Soils in the United States (USDA/NRCS, 2016). Vegetation/Soils/Hydrology data sheets used are the current standard forms requested by the USACE for use (USACE, 2010). Data sheets are attached (Appendix B). Soil pits were dug to an approximate depth of 18 inches. Data on soil color, texture and redoximorphic features was collected. Care was taken to observe mottling (iron concentrations) and to distinguish between chromas of 1 and 2 that would indicate an iron-depleted soil within 12 inches of the soil surface (USACE, 2010; USDA/NRCS, 2016).

Colors were described for the entire depth of the test pit and colors were determined on moist ped surfaces, which had not been crushed, using the Munsell Color Chart (Gretag Macbeth, 2000). Soils with low chromas were verified as being hydric or upland with Field Indicators of Hydric Soils in the United States (Version 8.0, 2016) using indicators for a depleted matrix (F3) and/or redox dark surface (F6) soil conditions.

4.4 Hydrology Methodology

The delineation was performed during the fall of 2008 and winter of 2017. Direct evidence of ground water (soil saturation, standing water, etc.) was not present in most of the wetland plots during the 2008 delineation (except those installed directly within the banks of the active slough channel) but standing water and a high ground water table was observed in portions of then new 2017 delineation area west of Elk River Road. During the 2008 delineation, primary wetland hydrologic indicators were assumed to be present for the wet season based on presence of soil indicators and/or presence of dominant and strongly hydrophytic vegetation. Secondary indicators were evaluated as well, and documented in some locations, such as geomorphic position (D2), passing the "FAC-Neutral Test" (D5), drainage pattern (B10), etc.

There were several problematic areas identified during the 2008 delineation in areas that were not in the Coastal Zone but contained two wetland parameters (soil and vegetation). These areas were topographically elevated and dominated by facultative (FAC) vegetation (not strongly hydrophytic), yet exhibited redoximorphic soil conditions (due to grading and absence of topsoil). As a result, it is recommended that wet-weather observation of the actual water table be performed to assist in final determination of wetland or upland conditions using the 3 parameter approach. These areas are denoted as a "Wet Season Investigation Area" in black hatched pattern indicated on Figures 2-5 and are discussed in Section 5.4.6 below.

4.5 Wetland Determination

The wetland boundary was evaluated using the USACE (three-parameter) or CC (oneparameter) methodologies, based on the location in relation to the Coastal Zone boundary. The wetland determination was made with an emphasis on redoximorphic soil features and the dominance of wetland vegetation. Wetland hydrology was either assumed to be present or secondary indicators were relied upon (as described above for 2008). Primary hydrologic indicators were observed in 2017. For locations not in the Coastal Zone (City primary jurisdiction, USACE oversight of delineation results), an area was determined to be a wetland when soil, vegetation, and hydrology met the three-parameter approach. In areas outside of the Coastal Zone, an area was determined to be uplands based on absence of any one wetland indicator (soils/botany/hydrology) based on the three-parameter approach. Within the Coastal Zone (City, County, or CC primary jurisdiction and CC and USACE oversight on delineation results), areas where the existence of any one indicator were present were identified. Within the Coastal Zone, an area was determined to be uplands based on absence of all three wetland indicators (soils/botany/hydrology) based on the one-parameter approach. All wetland plots exhibited a predominance of facultative (FAC) or wetter vegetation and most upland plots within the Coastal Zone exhibited a predominance of facultative-up (FACU) or drier vegetation.

Once wetland characteristics were determined for each transect, the horizontal location of the upland/wetland boundary were recorded using a handheld Trimble GPS unit with sub-meter accuracy.

5. Results

5.1 Existing Site Information

The soils survey map for the Martin Slough project area indicates that Bayside 3 (Ba3) and Bayside 4 (Ba4) wetland soils (silty clay loam, imperfectly drained, 0-3% slopes) exist throughout the southern portions of the project area (McLaughlin, 1965). The Bayside Series generally consists of floodplain loam soils described as "originally vegetated with oak, alder, willow, spruce, and in farthest reaches redwood." More specifically, these areas consist of flood plain and diked tidal lands described as originally vegetated in "stream basin with willow, spruce, and rush" and in "tidal reaches with pickleweed, silverweed, and rush." The golf course lands are mapped as residential/business/industrial areas (UI) and the soils are thus unclassified. The U.S. Fish and Wildlife wetlands inventory generally identifies multiple types of wetland habitats within the project area as follows: "Riverine, lower perennial, unconsolidated bottom, permanently flooded (and portions with excavated channel)," "Riverine, upper perennial, unconsolidated bottom, permanently flooded," "Palustrine, emergent, persistent, seasonally flooded (partially drained/ditched)," "Temporary flooded (partially drained/ditched)," and "Palustrine unconsolidated bottom permanently flooded" (U.S. Fish and Wildlife Service, 1987). Conditions appeared to be generally consistent with what was expected based on review of the soil survey and wetland inventory results. The above site information was not confirmed during the delineation field work due to the scope of the delineation that focused on identifying USACE and/or CC wetlands; therefore, this background information is provided here for reference purposes only.

5.2 Delineation Results

The parameters used to identify a wetland are characteristics of the soil, hydrology, and vegetation. To define a wetland, the USACE (2010) requires that all three parameters show wetland attributes. The CC defines a wetland based on the presence of any one parameter. A single wetland boundary line that satisfies both the USACE and CC methodologies was mapped for project areas within the Coastal Zone. The areas mapped that are not within the Coastal Zone comply with the USACE wetland definition. The area of investigation was determined to consist of one wetland that in many locations extends to the limits of the "2008 Investigation Boundary". During the original 2008 delineation effort it was originally thought that there were a total of two wetland areas, but these areas were determined to be connected, therefore data sheets are labeled as Wetland 2 (W2T#), while there is only one continuous wetland present within the project area. A total of 21 upland transects were delineated within the observed wetland area. Figures 4 – 4 in Appendix A show the results of the 2008 and 2017 wetland delineations. Results of analysis of the three wetland parameters (vegetation, soils and hydrology) are summarized below.

Hydrophytic vegetation was dominant within the wetland area (Data Sheets in Appendix B). The wetlands investigation determined that Estuarine and Palustrine Emergent, Palustrine Shrub-Scrub occur at the site, classified per Classification of Wetlands and Deepwater Habitats of the United States (FWS, 1979). Typical vegetation associated with the wetlands included the following OBL, FACW, or FAC designated indicator species (Lichvar et al. 2016).

- Pacific water parsley (Oenanthe sarmentosa) [OBL]
- Reed canary grass (Phalaris arundinaceae) [FACW, formerly OBL]
- Pacific silver-weed (Potentilla anserina) [OBL]
- Broadfruit bur-reed (Sparganium eurycarpum) [OBL]

- Field horsetail (Equisetum arvense) [FAC]
- Small-headed bulrush (Scirpus microcarpus) [OBL, formerly FACW]

Dominant vegetation within the fairway of the golf course adjacent to the slough consisted of tall fescue (*Festuca arundinacea*, synonym: *Schedonorus arundinaceus*) [FAC], annual bluegrass (*Poa annua*) [FAC, formerly FACW], perennial ryegrass (*Lolium perenne*, now *Festuca perennis*) [FAC], as well as colonial bentgrass (*Agrostis capillaris*) [FAC]. In some cases, the area was determined to be wetland depending on species composition at each site and in conjunction with evaluation of soil characteristics. In some cases, FAC or wetter vegetation was dominant in upland plots, but no presence of wetland soil parameter(s) were evident; all delineated upland areas were confirmed by upland soils (Appendix B).

Although not strongly hydrophytic, vegetation such as tall fescue (*Festuca arundinacea*), perennial ryegrass (*Lolium perenne*), annual bluegrass (*Poa annua*), bird's foot trefoil (*Lotus corniculatus*) [FAC], colonial bentgrass (*Agrostis capillaries*), velvet grass (*Holcus lanatus*) [FAC], buttercup (*Rannunculus repens*) [FAC, formerly FACW], and English plantain (*Plantago lanceolata*) [FACU, formerly FAC] were commonly found in both wetland and upland areas (where confirmed to be uplands based on lack of primary or secondary wetland groundwater parameters within the delineation area). All these aforementioned species are FACW or FAC designated indicator species (Lichvar et al. 2016).

Upland vegetation such as Kentucky bluegrass (*Poa pratensis*) [FAC, formerly FACU], cow parsnip (*Heracleum lanatum*, now *H. maximum*) [FAC, formerly FACU], white clover (*Trifolium repens*) [FAC, formerly FACU], soft brome (*Bromus hordeaceus*) [FACU], hairy cat's ear (*Hypochaeris radicata*) [FACU], orchard grass (*Dactylis glomerata*) [FACU], and sweet vernal grass (*Anthoxanthum ododratum*) [FACU] were dominant in many upland locations.

Soils in delineated areas were predominantly loam to silty loam in texture at surface with loam to clay loam or clay in subsoil. Wetland soils exhibited redoximorphic features typically found in hydric soils. These features included low chromas with redoximorphic (iron concentrations) at or above 10 inches from the soil surface and/or gleyed soil matrix color (5GY 4/1). Representative wetland (hydric) soils had matrix color ranges of 10YR 3/2, 10YR 4/2, 5Y 4/1, and 5G 4/1. Several wetland matrix colors were documented to be 10YR 3/3 in conjunction with redoximorphic features; this condition is typically not considered to meet wetland soil indicator(s) due to absence of low matrix chroma (2 or less), but coupled with prominent redoximorphic conditions and in some cases location within the slough channel, it was the determination of the field scientists that this was an unusual condition and the area was determined to be a wetland. Iron concentrations were documented in some wetland plots within 10 inches of the surface, with representative color ranges of 10YR 3/4, 10YR 3/6, 10YR 4/3, 10YR 5/6. The new 2017 PG&E staging area wetland soils had a matrix color of 2.5Y 3/2 with redoximorphic features with the color or 7.5YR 3/4 (Appendix B).

Representative upland soils had surface and subsurface color ranges of 10YR 3/2, 2.5Y 4/2, 2.5Y 4/3, and 2.5Y 3/3 with no redoximorphic features within 10 inches of the surface. Upland soils with a color of 10YR 3/1 were due to high organic matter (found on grassy slopes above the agricultural lands) and low chromas are not likely due to reducing conditions, but organic matter staining (Appendix B).

5.3 Ordinary High Water

The Ordinary High Water (OHW) was mapped to designate the active (tidally influenced) slough channel, based on evaluation of top of bank, characteristics of the vegetation, and signs of scouring. Point data was collected in 2008, which has been merged to show only the approximate boundary line of the OHW (Figures 2 through 4).

5.4 Upland Areas

A total of 21 upland transects were identified, many of these areas are very small in size but were mapped for informational purposes. Larger upland areas were investigated to document possible areas to reuse excavated soil from proposed slough restoration activities, and thus square footage of these larger areas can be made available during the planning phase. The more significant (larger) upland features are described below.

5.4.1 Upland Transects 1, 2, 3, and 16

These areas are long thin uplands that run linear/adjacent to the active slough channel (Figures 3 and 4) and are likely historically formed from side-casting from slough maintenance activities and/or overbank deposits.

- Upland Transect 1, see U1T3 data point
- Upland Transect 2, intermediate data points only
- Upland Transect 3, see U3T32 data points
- · Upland Transect 16, intermediate data points only

5.4.2 Upland Transects 4, 7, 8, 9, 11, and 13

These areas are very small (each smaller than 15 square feet) and are associated with footings and access for several bridges that cross the slough and provide access for golf carts to the various portions of the course. Upland Transect 13 is slightly larger as it is associated with the bridge footing for Fairway Drive (Figure 4).

5.4.3 Upland Transects 5, 6, 15, 18, and 19

These areas are elevated and have documented historic site alterations such as cutting, stockpiling, and storage of vegetation/debris (Figures 2 through 4, Photo 1 in Appendix C). These areas are identified as uplands based on soils and/or vegetation.

- Upland Transect 5, documented by upland pit UP5
- · Upland Transect 6, documented by upland pit UP6
- Upland Transect 15, documented by UP15T1
- Upland Transect 18, located on agricultural land in the Coastal Zone, see U18T1
- Upland Transect 19, located on agricultural lands in the Coastal Zone, see U18T1

5.4.4 Uplands Transects 10, 12, 14, 17, 20, 21

Several wetland areas are formed due to natural and/or altered (cut) areas that are topographically elevated above the slough (Figures 2 through 4 in Appendix A). These areas were confirmed to be upland based on absence of wetland soils and/or vegetation.

- Upland Transects 10 and 12 are located along the toe of slope at the northeast edge of the golf course
- · Upland Transect 14 surrounds a maintenance shed
- Upland Transects 17 and 20 are located upslope from a slough finger that extends to the south of the southern edge of the golf course

• Upland Transect 21 is similarly elevated above the slough, upslope from agricultural lands at the southern extent of the project area.

5.4.5 Riparian

A riparian area that is associated with USFWS regulated waters was mapped for informational purposes based on the average drip line of canopy (Figure 4).

5.4.6 Topographically High Areas / Wet Season Investigation Areas

Several areas that are topographically higher than the slough channel (for example the driving range) were expected to have upland conditions due to elevation but delineation results in 2008, as well as investigations in 2017, show presence of redoximorphic soil features at or near the surface as well as facultative or unidentifiable vegetation (areas indicated with hatched pattern in Figures 2 through 4). Upon further evaluation of surrounding hill slopes above these areas, it appears that these areas were graded down from original surface levels based on pedestalled trees, visible upslope scarp/cut area, personal communication with site operator, and/or absence of surficial O or A horizons. The current surficial redoximorphic soil conditions could possibly be remnant from the existence of these areas in deep subsoils and now are at the surface. An example photograph of this condition is provided in Appendix C. These areas are for the most part not in the Coastal Zone thus all three parameters would be required to designate them as a wetland (see Discussion below). Due to the late summer (September) implementation of the original 2008 delineation field work, observation of groundwater hydrologic conditions was not possible. Typically, secondary hydrologic parameters can be evaluated during dry-season delineations. However, secondary parameters were not evident in this heavily managed landscape. Thus, these areas would need to be further investigated in the wet-season (monitoring wells and/or observation points) to determine presence/absence of the hydrologic parameter. Due to the active use of these areas by the golf course, the Applicant indicated in 2008 these areas are not being considered for reuse of excess soil from the Martin Slough Enhancement project.

These Wet Season Investigation areas are denoted with black hatching on Figures 2 through 4. During the 2017 site visit a new small topographically higher area was added to the previously mapped area for wet season investigation outside of the Coastal Zone (Figure 3), thus it is unlikely that those Upland Investigation Areas on the East of the Coastal Zone boundary on Figure 3 and those on Figure 4 could be defined as wetlands based on a one-parameter approach. Complete evaluation and refinement of the boundaries during the 2017 investigation was outside of the scope of work but these areas were all investigated and determined to have been correctly mapped with the exception of one Upland Investigation Area that was removed and determined to be a wetland based on soil saturation, surficial hydrology, and excavation and testing of surface soils. This area was originally mapped to the west of upland transects 5 along the tree line.

5.4.7 Mixed Areas

Several areas were originally determined in 2008 to have a mixture (approximately 1:1 ratio) of upland and wetland conditions. The areas have hummocky micro-topography with highly variable conditions from one point to the next, thus mapping of upland/wetland boundaries within these small areas could be quite complex and impracticable given scope of this current project. These areas are in the Coastal Zone (in green on Figure 2) thus subject to the one-parameter approach for wetland determination and setbacks if deemed necessary. One such area is adjacent to Upland 21; represented by upland confirmation pit UP22 (in yellow). The other such area is indicated approximately 950 feet to the northeast. These areas would require further evaluation during the wet season to determine actual extent of wetlands/uplands,

therefore we have combined these areas into the category for "Wet Season Investigation Area" during the revision of this report in 2017.

5.4.8 Berm

The top (upland) portion of the berm varies from 6 to 12 feet wide. The berm has the appearance of wetland soil conditions, with dominant upland vegetation along the top of the berm and wetland vegetation along the side slopes. The actual determination of wetland / upland boundary along the berm would need to be verified during wet-weather conditions if this area is modified during the proposed Martin Slough Enhancement project. The berm was mapped for informational purposes only and should be considered only as an approximation.

6. Conclusions

The wetland delineations of September/October 2008 and January 2017, were performed on properties that surround Martin Slough. The wetland delineation determined the extent of wetland-type vegetation (based on one-parameter) in areas that are within the Coastal Zone, and the extent of wetlands having wetland-type vegetation, hydric soils, and wetland hydrology (based on three-parameters) in areas not in the Coastal Zone. The area of investigation was determined to consist of one wetland that in many locations extends to the limits of the "2008 Investigation Boundary"; a total of 21 upland transects were delineated within the 2008 wetland area and two test plots in the new 2017 PG&E project area were determined to indicate this new wetland area (Figure 4). The wetlands investigation determined that Estuarine Emergent wetlands and Palustrine Emergent and Palustrine Shrub-Scrub wetlands occur at the site.

One single upland/wetland line is shown for areas within the Coastal Zone that satisfies both the USACE (three-parameter) and CC (one-parameter) wetland definitions.

The areas of investigation are shown as "2008 Investigation Boundary" or as the staging area denoted as the "New PG&E Area Studied in 2017". The wetland delineation results are provided in Figures 1 through 4. The field data sheets from the delineation area are included in Appendix B. And a photo of a pedestaled tree prior to land grading is provided in Appendix C.

7. Special Terms and Conditions

To achieve the delineation objectives stated in this report, conclusions of the delineation were based on the information available during the periods of the investigation, September/October 2008 and January 2017. Land use practices and regulations can change thereby affecting current conditions and delineation results; therefore, this delineation was originally given a 5-year expiration period and reinvestigated in 2017. This report was prepared for the exclusive use of Redwood Community Action Agency (RCAA). GHD Inc. is not liable for any action arising out of the reliance of any third party on the information contained within this report.

This report does not authorize any individuals to develop, fill or alter the wetlands delineated, or special or sensitive habitat(s) identified. Verification of the delineation by jurisdictional agencies is necessary prior to the use of this report for planning and development purposes. An agency stamped delineation map and jurisdictional approval letter is required to signify confirmation of delineation results. In situations where a field investigation determines that no jurisdictional wetlands occur, jurisdictional concurrence with these findings is recommended.

If filling is used under permitted authority (after agency review and written verification of said activities) care should be given to maintain sufficient quantity of fill to prevent a reestablishment of wetlands.

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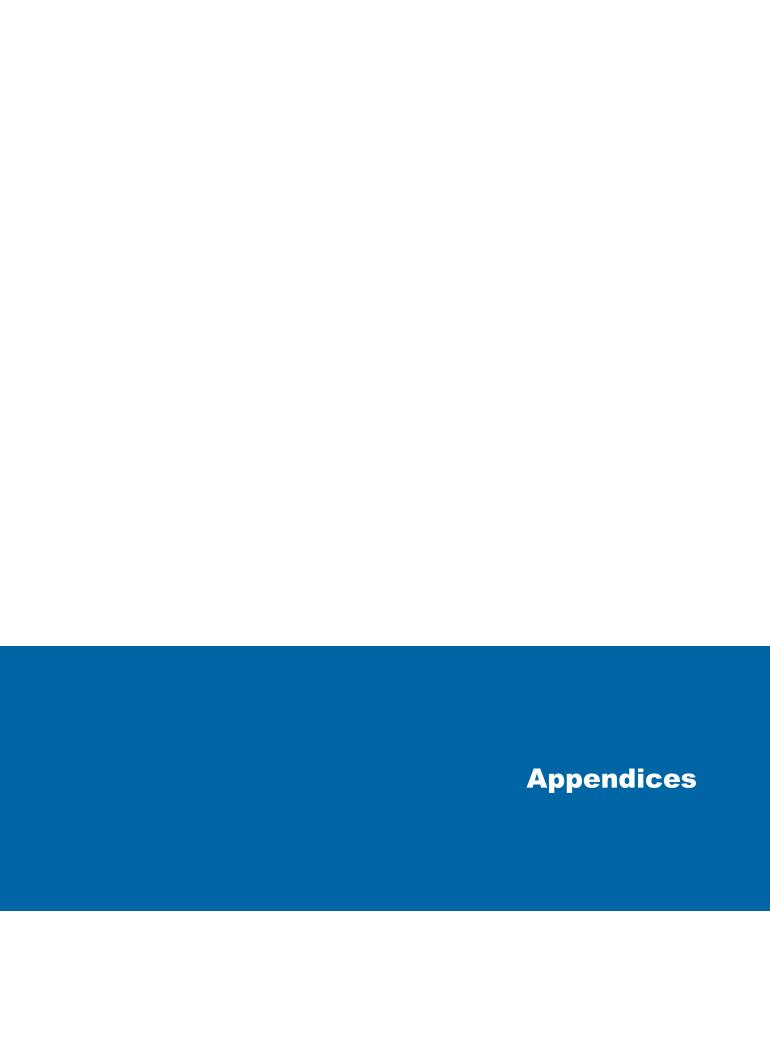
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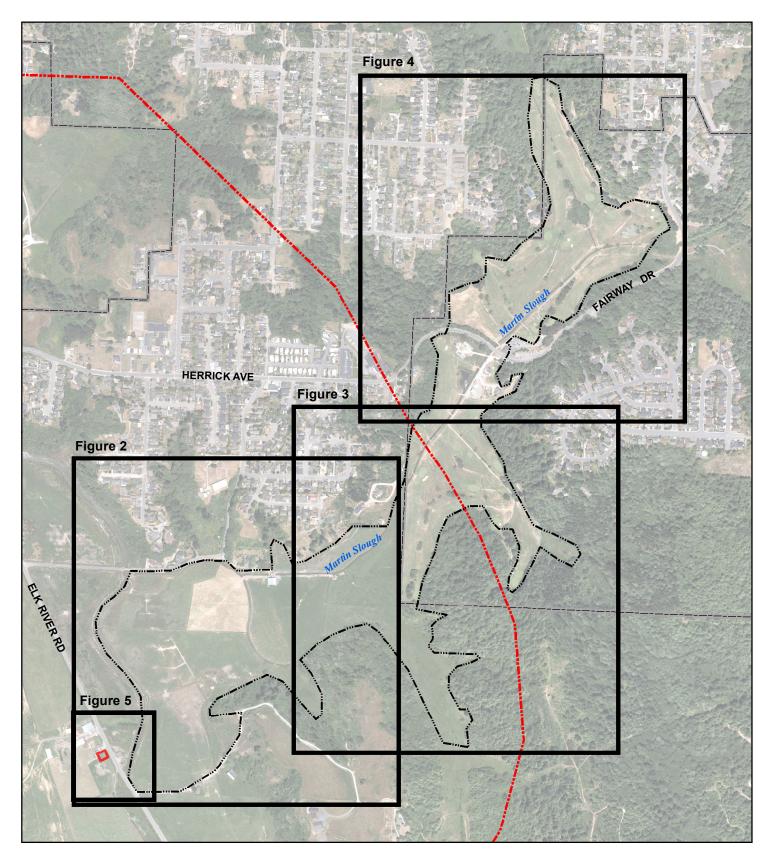
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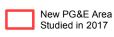
USDA/NRCS, 2016. Field Indicators of Hydric Soils in the United States. A Guide for Identifying and Delineating Hydric Soils, Version 8.0. United States Department of Agriculture (USDA) and Natural Resources Conservation Service (NRCS) in cooperation with the National Technical Committee for Hydric Soils. 55 pages.



Appendix A - Figures

- Figure 1 Project Vicinity and Location.
- Figure 2 Southwestern portion of 2008 Investigation Boundary.
- Figure 3 Central portion of 2008 Investigation Boundary.
- Figure 4 Northeastern portion of 2008 Investigation Boundary.
- Figure 5 Detail of new PG&E staging area studied in 2017.

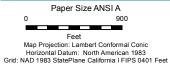




2008 Investigation Boundary

Coastal Zone Boundary

City of Eureka Limitis



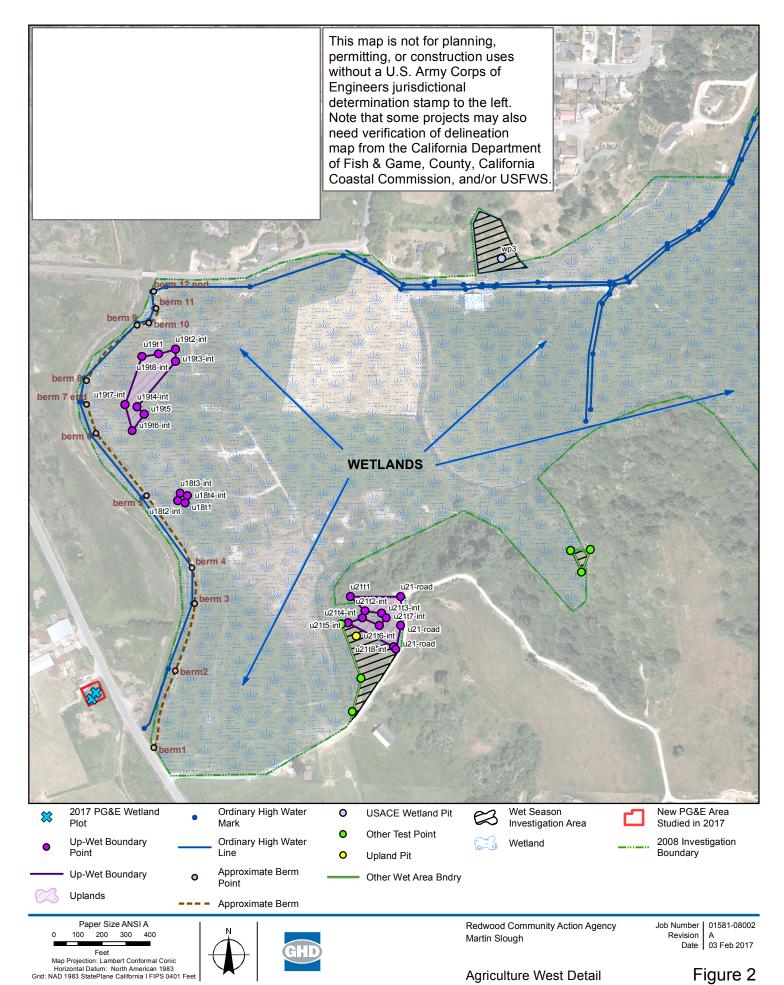


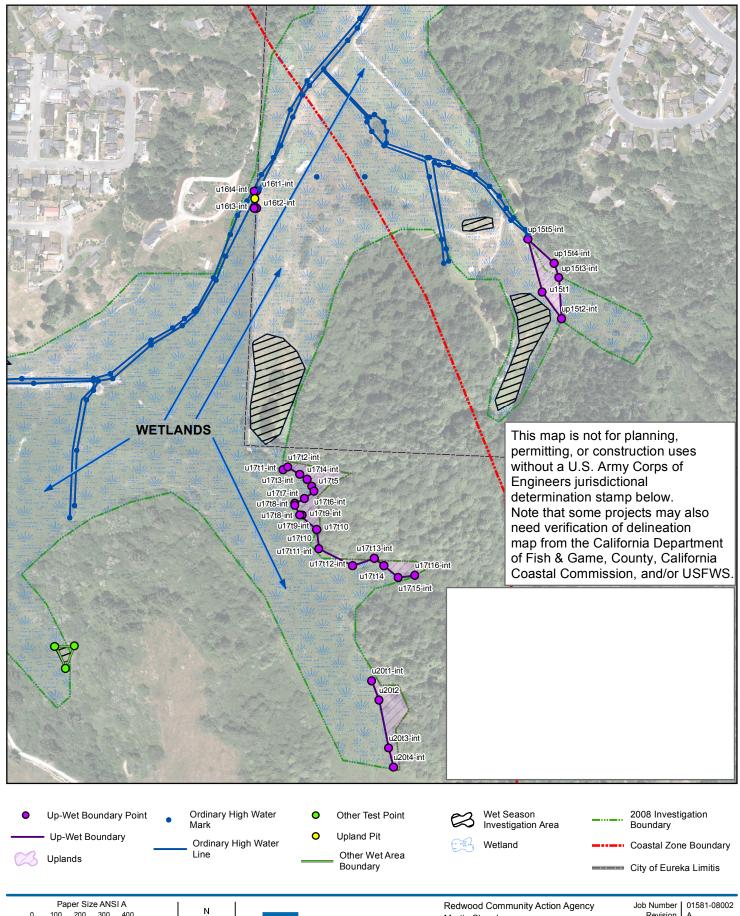


Redwood Community Action Agency Martin Slough

Job Number | 01581-08002 Revision vision | A Date | 03 Feb 2017

Vicinity and Location





100 200 300 400 Feet
Map Projection: Lambert Conformal Conic
Horizontal Datum: North American 1983
Grid: NAD 1983 StatePlane California i FiPS 0401 Feet

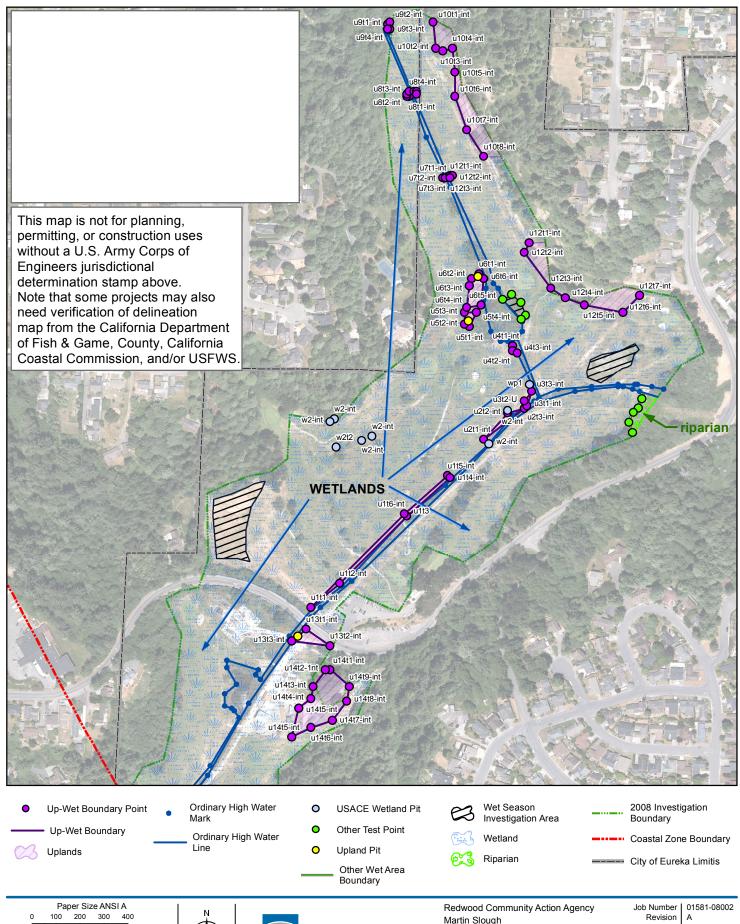




Martin Slough

Date 03 Feb 2017

Agriculture West Detail



Feet
Map Projection: Lambert Conformal Conic
Horizontal Datum: North American 1983
Grid: NAD 1983 StatePlane California i FiPS 0401 Feet

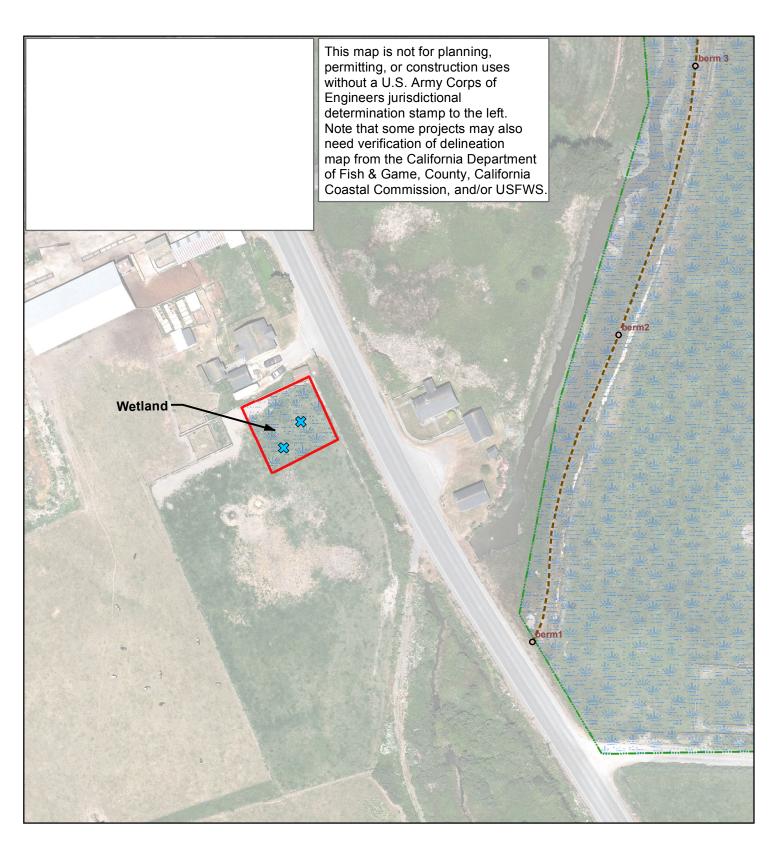




Martin Slough

03 Feb 2017 Date

Agriculture West Detail





2017 PG&E Wetland Plot

Approximate Berm Pt



New PG&E Area Studied in 2017



Wetland

Approximate Berm

2008 Investigation Boundary

Paper Size ANSI A Map Projection: Lambert Conformal Conic Horizontal Datum: North American 1983 Grid: NAD 1983 StatePlane California I FIPS 0401 Feet





Redwood Community Action Agency Martin Slough

Job Number | 01581-08002 Revision Date 03 Feb 2017

PG&E Wetlands

Appendix B – Field Data Sheets

Profile Description: (Describe to the dep	an needed to document the indicator or conf	irm the absence of indicators.)
Depth Matrix (inches) Color (moist) %	Redox Features	
	Color (moist) % Type ¹ Loc ²	Texture Remarks
6-15 2.513/2 80	101R3/6 5%mCM	544/158m DM
		21 /1 2/01 1 1/4
	No.	1 1.
¹ Type: C=Concentration, D=Depletion, RM=	Reduced Matrix. ² Location: PL=Pore Lining	, RC=Root Channel, M=Matrix.
Hydric Soil Indicators: (Applicable to all	LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA	1) Other (Explain in Remarks)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	³ Indicators of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	wetland hydrology must be present.
Restrictive Layer (if present):	-	
Type:/\/	MA TAYLOR PARA	
Depth (inches):		Hydric Soil Present? Yes X No
Remarks: Matrix chromo	1 2 2 2 2	
I MALLY CANOUS	r wat reduced	
LAGIONO IIVE MIKUUMI	distance, confirms	Wetland 5015+ bitages
•	•	are not a line of the same of
		wetland soils+ bitany conditions
·		conditions
·		conditions
·		
HYDROLOGY		Secondary Indicators (2 or more required)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is suffice.)	cient)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is suffice Surface Water (A1)	cient) Water-Stained Leaves (B9) (except NW	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is suffic Surface Water (A1) High Water Table (A2)	cient) Water-Stained Leaves (B9) (except NW Salt Crust (B11)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficed in the sufficed in	cient) Water-Stained Leaves (B9) (except NW Salt Crust (B11) Aquatic Invertebrates (B13)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2)
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HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficed by the surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	cient) Water-Stained Leaves (B9) (except NW Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Is (C3) Geomorphic Position (D2) Shallow Aquitard (D3)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is suffice Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	cient) Water-Stained Leaves (B9) (except NW Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Is (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4)
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HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is suffice Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	cient) Water-Stained Leaves (B9) (except NW Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Is (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4)
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	ins, valleys and Coast Region (DRAFT)
Project/Site: Martin Slough at Golf CourseCity/County: Eure	Ka/ Hymboldt Sampling Date: 9/9/08
	State: Sampling Point: <u>WD 2</u>
Investigator(s): LW/KS Section, Township, Ra	ange:
Landform (hillslope, terrace, etc.): backslope Local relief (concave,	convex, none): O AWEX Slope (%): 15
Subregion (LRR): Lat:	<u>.</u> `
Soil Map Unit Name:	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _	(If no, explain in Remarks.)
	"Normal Circumstances" present? Yes X No
·	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point I	locations, transects, important features, etc
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Within a Wetland Remarks:	V
Remarks:	
VEGETATION	
Tree Stratum (Use scientific names.) Absolute 9/Cover Species? Status 1. Provis Valuation 2 V VI	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:	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
1	Prevalence Index worksheet:
2	Total % Cover of: Multiply by:
3	OBL species x 1 =
4	FACW species x 2 =
5	FACU species x 3 = FACU species x 4 =
Total Cover:	UPL species x 5 =
1. Ranunculus repoins 10 Y FACW	Column Totals: (A) (B)
2. Pra Ahrua 80 Y FACW-	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	Wetland Bryophytes ¹
Total Cover: Woody Vine Stratum	Problematic Hydrophytic Vegetation ¹ (Explain)
1	¹ Indicators of hydric soil and wetland hydrology must
2	be present.
Total Cover: 45 % Bare Ground in Herb Stratum	Hydrophytic Vegetation Present? Yes No
Remarks: Dead Wass- unidentified (5%)	
Species not strongly hydrophy hic. Site	e=moved goff laws
too ography = back 5 mo	J

OIL MOUTINS Slove Profile Description: (Describe to the de	put needed to document the indicator or confirm	i the absence of fild	outors.) –
Depth Matrix	Redox Features		
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture	Remarks
1-4 10/R3/3 95%		_5L	
4-15 10 VRY/2 836	10YR5/6/5YR7678 C M	CL	
<u> </u>			
ype: C=Concentration, D=Depletion, RN		C=Root Channel, M=I	Matrix.
ydric Soil Indicators: (Applicable to a	II LRRs, unless otherwise noted.)		Problematic Hydric Soils ³ :
_ Histosol (A1)	Sandy Redox (S5)	2 cm Muck	(A10)
_ Histic Epipedon (A2) _ Black Histic (A3)	Stripped Matrix (S6)	Red Parent	
Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1) (except MLRA 1) Loamy Gleyed Matrix (F2)	Other (Expl	ain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)		
_ Thick Dark Surface (A12)	Redox Dark Surface (F6)		
_ Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	³ Indicators of hy	drophytic vegetation and
_ Sandy Gleyed Matrix (S4)	Redox Depressions (F8)		ology must be present.
estrictive Layer (if present):			
Type:			/
		1	
_	n of slaugh - Rocation of hest	Hydric Soil Presen	t? Yes <u>√</u> No
emarks: Approx. 70-ft south.	n of slough - location of hest		t? Yes <u>√</u> No
emarks: Approx. 70-ft south	n of slaugh - location of	wp2	
emarks: Approx. 70-ff south South DROLOGY etland Hydrology Indicators:		Secondary Indic	ators (2 or more required)
emarks: APPYOX. 70-ft South South. DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is suf	ficient)	Secondary Indic	ators (2 or more required) ed Leaves (B9) (NW coas t)
PPYOX. TO -SOUTH SOUTH S	ficient) Water-Stained Leaves (B9) (except NW co	Secondary Indic Water-Stain ast) Sparsely Ve	ators (2 or more required) ed Leaves (B9) (NW co ast) getated Concave Surface (B8)
emarks: APPYOX. 70-ft South South. DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is suf	ficient) Water-Stained Leaves (B9) (except NW co Salt Crust (B11)	Secondary Indic — Water-Stain ast) — Sparsely Ve — Drainage Pa	ators (2 or more required) ed Leaves (B9) (NW coast) getated Concave Surface (B8)
PPYOX. TO -SOUTH SOUTH S	ficient) Water-Stained Leaves (B9) (except NW co Salt Crust (B11) Aquatic Invertebrates (B13)	Secondary Indic — Water-Stain ast) — Sparsely Ve — Drainage Pa — Dry-Season	ators (2 or more required) ed Leaves (B9) (NW coast) getated Concave Surface (B8) atterns (B10) Water Table (C2)
DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is suf Surface Water (A1) High Water Table (A2) Saturation (A3)	ficient) — Water-Stained Leaves (B9) (except NW co — Salt Crust (B11) — Aquatic Invertebrates (B13) — Hydrogen Sulfide Odor (C1)	Secondary Indic Secondary Indic Water-Stain ast) Sparsely Ve Drainage Pa Dry-Season Saturation V	ators (2 or more required) ed Leaves (B9) (NW coast) getated Concave Surface (B8) atterns (B10) Water Table (C2) Visible on Aerial Imagery (C9)
emarks: Approx. 70 - ft south south. DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is suff	ficient) Water-Stained Leaves (B9) (except NW co Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (Presence of Reduced Iron (C4)	Secondary Indic Water-Stain ast) Sparsely Ve Dry-Season Saturation V Goomorphic Shallow Aqu	ators (2 or more required) ed Leaves (B9) (NW coast) getated Concave Surface (B8) atterns (B10) Water Table (C2) (risible on Aerial Imagery (C9)
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PPYOX. TO - South	ficient) Water-Stained Leaves (B9) (except NW co Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No Depth (inches): No Depth (inches): Wetla	Secondary Indic Water-Stain ast) Water-Stain ast) Sparsely Ve Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu Frost-Heave X FAC-Neutra Raised Ant I	ators (2 or more required) ed Leaves (B9) (NW coast) getated Concave Surface (B8) atterns (B10) Water Table (C2) fisible on Aerial Imagery (C9) Position (D2) attard (D3) Hummocks (D4) Test (D5) Mounds (D6) (LRR A)
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WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys and Coast Region (DRAFT)

Project/Site: Martin Slough Applicant/Owner: Cy E	(City/County	ر: بخ ر	reka	Compling Date:	حاء ا م
Applicant/Owner: C 4 E				State: £A	_ Sampling Date: _	(112 TAG
Investigator(s): Lester webb		Section To	washin R	anne:	_ Sampling Point: _	wziac
Landform (hillslope, terrace, etc.):		l ocal relie	f (concave	convoy none):		
Subregion (LRR): Lat:		Local Tollo	· (concave,	convex, none).	Sio	oe (%):
Soil Map Unit Name:				Long:	Datu	m:
Soil Map Unit Name: Are climatic / bydrologic conditions on the site typical for this time.	of upo	-0 V)		NWI classif	cation:	
Are climatic / hydrologic conditions on the site typical for this time. Are Vegetation, Soil, or Hydrology signification.	or yea	ir res				
Are Vegetation, Soil, or Hydrology naturall				"Normal Circumstances"		No
				eeded, explain any answ		
SUMMARY OF FINDINGS – Attach site map show	ving :	sampiin	g point	locations, transects	s, important fe	atures, etc.
Hydrophytic Vegetation Present? Yes No		is th	e Sample	d Δrea	1	
Hydric Soil Present? Yes No 1			in a Wetla		No_ V	
Wetland Hydrology Present? Yes No	<u> </u>			163	NO	
Tremarks.						
VEGETATION		4.				
Abso Tree Stratum (Use scientific names.) % Co	lute	Dominant	Indicator	Dominance Test work	sheet:	
1		Species?	-	Number of Dominant S	Species 7	
2.				That Are OBL, FACW,	or FAC:	(A)
3			-	Total Number of Domir	nant 🧳	
4			·	Species Across All Stra		(B)
Total Cover:				Percent of Dominant S That Are OBL, FACW,	pecies or FAC:66	(A/B)
1	-			Prevalence Index wor	kahaati	
2.				Total % Cover of:		by
3				OBL species		
4				FACW species		
5				FAC species		
Total Cover:				FACU species		
-	(0	V	FACW-	UPL species		
	(<u>v</u> _	· · ·	GAL	Column Totals:	(A)	(B)
3. Ranuncalus Cepens 3.		V	FACU	Prevalence index	= B/A =	
4. Tribolium repens				Hydrophytic Vegetation		
5				Dominance Test is		
6				Prevalence Index is	s ≤3.0¹	}
7				Morphological Ada	ptations¹ (Provide s	upporting
8	 -			data in Remarks	s or on a separate s	heet)
Total Cover: 100	<u> </u>	•		Problematic Hydro		Esselei-)
1				¹ Indicators of hydric soil		
2				be present.	and wettand nyuro	logy must
Total Cover: 10	0			Hydrophytic	· · · · · · · · · · · · · · · · · · ·	
% Bare Ground in Herb StratumO				Vegetation	. 1/	
Remarks:				Present? Yes	No	

S	O	ł	L	

Sampling Point: W2T2-U

Donth Matin		
Depth Matrix (inches) Color (moist) %	Redox Features Color (moist) % Type¹ Loc²	Tandura
0-12 10483/2 101	70 1700 200	Texture Remarks
10 10 10		loan_
	_	
¹ Type: C=Concentration, D=Depletion,	RM=Reduced Matrix. ² Location: PL=Pore Lining, R	C=Root Channel M=Matrix
Hydric Soil Indicators: (Applicable to	all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Other (Explain in Remarks)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	_ , ,
Depleted Below Dark Surface (A11)		
Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	Redox Dark Surface (F6)	1
Sandy Gleyed Matrix (S4)	Depleted Dark Surface (F7)	³ Indicators of hydrophytic vegetation and
Restrictive Layer (if present):	Redox Depressions (F8)	wetland hydrology must be present.
Type:		
Depth (inches):		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Remarks:		Hydric Soil Present? Yes No
mound adjacent	- to ord execo	
270		
10 troom line		e e
		· ·
HYDROLOGY		
HYDROLOGY Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Wetland Hydrology Indicators:	sufficient)	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is s		Water-Stained Leaves (B9) (NW coast)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is s Surface Water (A1)	Water-Stained Leaves (B9) (except NW coa	Water-Stained Leaves (B9) (NW coast) ast) Sparsely Vegetated Concave Surface (B8)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is s Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) (except NW coa Salt Crust (B11)	Water-Stained Leaves (B9) (NW coast) ast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is s Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (except NW coaSalt Crust (B11)Aquatic Invertebrates (B13)	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is s Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except NW coa Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is s Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (except NW coa Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (Coa)	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is s Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (B9) (except NW coal Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (Cand Presence of Reduced Iron (C4)	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is s Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (B9) (except NW coal Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (Coal Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6)	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is some surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B9) (except NW coal Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C2) Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is s Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except NW coal Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C2) Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4)
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Wetland Hydrology Indicators: Primary Indicators (any one indicator is s Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Field Observations:	Water-Stained Leaves (B9) (except NW coase Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (Coase Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is some surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Field Observations: Surface Water Present? Yes	Water-Stained Leaves (B9) (except NW coal Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (Coal Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No Depth (inches):	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5)
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WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys and Coast Region (DRAFT)

Project/Site:	Martin slow	h		City/Cou	unty: どし	ieka	Sampling Date:	412.145
Applicant/Owner:						State:	_ Sampling Point:	(J)2 T/108
investigator(s):				Section,	Township, Ra	ange:	_ camping rout	voc 1700
Landform (hillslope, te	еггасе, etc.):			Local re	elief (concave.	convex, none):	Slor	no /%\·
Subregion (LRR):		_	Lat:	-	(Long:	Stur	76 (70)
Soil Map Unit Name:						NWI classif	ication:	Н
Are climatic / hydrolog	ic conditions on the	site typical f	or this time of ve	ear? Yes	✓ No	(If no, explain in	Remarks \	
Are Vegetation						"Normal Circumstances"	•	/ No
Are Vegetation						eeded, explain any answ		NO
					•	ocations, transect	· · · · · · · · · · · · · · · · · · ·	atures. etc.
Hydrophytic Vegetat	•		, No					
Hydric Soil Present?			No	13	s the Sample			
Wetland Hydrology F		Yes V	No	w	ithin a Wetla	nd? Yes_V	No	
Remarks:							•.	· · · · · · · · · · · · · · · · · · ·
		,				•		
VEGETATION	•			1844.1			<u></u>	
Trop Stratum (Llac	opiontific names \		Absolute		ant Indicator	Dominance Test wor	ksheet:	
Tree Stratum (Use 1.	•		<u>% Cover</u>	Specie	s? Status	Number of Dominant 8	Species 3	
2.				-		That Are OBL, FACW,	or FAC:	(A)
3.						Total Number of Domi	nant 3	450
4						Species Across All Str		(B)
Sapling/Shrub Stratu	ım ·		Cover:			Percent of Dominant S That Are OBL, FACW,		O (A/B)
1.						Prevalence Index wo	rkeheat:	
2.						1	Multiply	by .
3							x1=	
4						FACW species		
5						FAC species		
Herb Stratum		Total C	Cover:	-		FACU species		
1. POZ RYLY	\ua		Øэ		FAW-	UPL species		
2. Lolium	pereme		હ	·	FAC	Column Totals:	(A)	(B)
3. Rannuc	es coes		10	6~	FACU	Prevalence Index	κ = B/A =	
4						Hydrophytic Vegetati	on Indicators:	
5.						🔀 Dominance Test is	s >50%	
6						Prevalence Index	is ≤3.0¹	
7						Morphological Ada	aptations¹ (Provide s	upporting
8			100		-	Wetland Non-Vaso	s or on a separate s	neet)
Woody Vine Stratum		Total C	Cover: 100	-		Problematic Hydro		Evnlain\
1						¹ Indicators of hydric so		
2.						be present.	ii ana wetana nyaro	logy must
		Total C	Cover:			Hydrophytic	. *	
% Bare Ground in He	erb Stratum	·				Vegetation	es <u> </u>	
Remarks:						l <u>, , , , , , , , , , , , , , , , , , ,</u>		
								•
							•	
							,	

			i necucu to uocu	ment the m	laicator	or commr	n the absence of i	ndicators)	
Depth	Matrix			x Features					
(inches)	Color (moist)		Color (moist)	%	Type ¹	_Loc ²	Texture	Remarks	
0-6"	104R3/2	<u> 100</u> -					10am		
6-10"	104R312	80	564/1	20%	P	M	clayloan		
10-15"	564/1	100					clay		
<i>y</i> :			****				-01/4	· · · · · · · · · · · · · · · · · · ·	
i				 .					
									
		. —— –						·	
¹Type: C=Co	ncentration, D=Dep	letion, ŘM=F	leduced Matrix.	² Location:	PL=Pore	Linina. F	RC=Root Channel, N	Λ=Matrix	
Hydric Soil I	ndicators: (Applic	able to all L	RRs, unless other	rwise noted	1.)			or Problematic Hydric Soils ³ :	
Histosol	(A1)	•	_ Sandy Redox (S	S5)			2 cm Mu	-	
1	ipedon (A2)		_ Stripped Matrix				Red Pare	ent Material (TF2)	
Black His		· 	_ Loamy Mucky N		(except	MLRA 1)		xplain in Remarks)	
	າ Sulfide (A4) Below Dark Surfac	- (044)	_ Loamy Gleyed I					•	
	rk Surface (A12)	e (A11) <u>v</u> L	Depleted Matrix Redox Dark Sui						
	ucky Mineral (S1)	· . <u>-</u>	_ Depleted Dark Sui		١		3Indiantof	handan hadi a a	
	eyed Matrix (S4)		Redox Depress		,			hydrophytic vegetation and drology must be present.	
	ayer (if present):			/			wedaria n	ydrology must be present.	
Туре:	clay		_						
Depth (incl	hes):\ <mark>0</mark> ^и		<u> </u>				Hydric Soil Pres	ent? Yes_X No	
Remarks:			•	:		·			
20' fro	m line								
							*		
		√°	•						
HYDROLOG	GY					· · ·			
		-					Secondary In	dicators /2 or more required)	
Wetland Hydi	rology Indicators:	utor is sufficie	nt)		·			dicators (2 or more required)	
Wetland Hydro	rology Indicators: ators (any one indica	utor is sufficie		d Lagrage (P	(0) (0)	na Mar	Water-Sta	ained Leaves (B9) (NW coast)	
Wetland Hydromary Indicated V	rology Indicators: stors (any one indica Vater (A1)	utor is sufficie	Water-Stained		9) (exce	pt NW co	Water-Standard wast) Sparsely	ained Leaves (B9) (NW coast) Vegetated Concave Surface (B	
Wetland Hydromatry Indicated Windows Surface V High Water	rology Indicators: ators (any one indica Vater (A1) er Table (A2)	ator is sufficie	Water-Stained	11)		pt NW co	Water-States ast) Sparsely Drainage	ained Leaves (B9) (NW coast) Vegetated Concave Surface (E Patterns (B10)	
Wetland Hydrometric Primary Indicate Volume Surface Volume High Water Saturation	rology Indicators: ators (any one indica Vater (A1) er Table (A2) n (A3)	ator is sufficie	Water-Stained Salt Crust (B1 Aquatic Invert	l1) tebrates (B1	13)	pt NW co	Water-Standard Sparsely Drainage Dry-Seas	ained Leaves (B9) (NW coast) Vegetated Concave Surface (E Patterns (B10) on Water Table (C2)	38)
Wetland Hydroman Primary Indicated Surface V High Water Saturation Water Ma	rology Indicators: ators (any one indica Vater (A1) er Table (A2) n (A3)	utor is sufficie	Water-Stainee Salt Crust (B1 Aquatic Invert Hydrogen Sul	l1) tebrates (B1 fide Odor (0	13) C1)		Water-State ast) Sparsely Drainage Dry-Seas Saturation	ained Leaves (B9) (NW coast) Vegetated Concave Surface (E Patterns (B10) on Water Table (C2) n Visible on Aerial Imagery (C9	38)
Wetland Hydroman Primary Indicated Surface V High Water Saturation Water Ma	rology Indicators: ators (any one indica Vater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2)	itor is sufficie	Water-Stained Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz	l1) tebrates (B1 fide Odor (0 cospheres a	l3) C1) long Livi		Water-Standard Sparsely Drainage Dry-Seas Saturation (C3) Geomorp	ained Leaves (B9) (NW coast) Vegetated Concave Surface (E Patterns (B10) on Water Table (C2) n Visible on Aerial Imagery (C9 hic Position (D2)	38)
Wetland Hydromany Indicate Surface V High Wate Saturation Water Ma Sediment Drift Depo	rology Indicators: ators (any one indica Vater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2)	ator is sufficie	Water-Stainee Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of F	l1) tebrates (B1 fide Odor (C cospheres a Reduced Iro	l3) C1) long Livii n (C4)	ng Roots (Water-State Sparsely Drainage Dry-Seas Saturation (C3) Shallow A	ained Leaves (B9) (NW coast) Vegetated Concave Surface (E Patterns (B10) on Water Table (C2) n Visible on Aerial Imagery (C9 hic Position (D2) Aquitard (D3)	38)
Wetland Hydromany Indicate Surface V High Wate Saturation Water Ma Sediment Drift Depo	rology Indicators: ators (any one indicators) Vater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) or Crust (B4)	ator is sufficie	Water-Stainer Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R	(1) Itebrates (B1 Itide Odor (Cospheres a Reduced Iron Reduction in	l3) C1) long Livin n (C4) Plowed	ng Roots (Soils (C6)	Water-Stanast) Water-Stanast) Sparsely Drainage Dry-Seas Saturation Geomorp Shallow A	ained Leaves (B9) (NW coast) Vegetated Concave Surface (E Patterns (B10) on Water Table (C2) n Visible on Aerial Imagery (C9 hic Position (D2) Aquitard (D3) ave Hummocks (D4)	38)
Wetland Hydromary Indicate Surface V High Wate Saturation Water Ma Sediment Drift Depo	rology Indicators: ators (any one indicators) Vater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) or Crust (B4)	ator is sufficie	Water-Stainee Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of F	(11) tebrates (B1 fide Odor (Cospheres a Reduced Iro teduction in ressed Plan	I3) C1) long Livin n (C4) Plowed ts (D1) (I	ng Roots (Soils (C6)	Water-State ast) Sparsely Drainage Dry-Seas Saturation (C3) Geomorp Shallow A Frost-Hea FAC-Neuron	ained Leaves (B9) (NW coast) Vegetated Concave Surface (E Patterns (B10) on Water Table (C2) n Visible on Aerial Imagery (C9 hic Position (D2) Aquitard (D3) ave Hummocks (D4) tral Test (D5)	38)
Wetland Hydromary Indicate Surface V High Wate Saturation Water Ma Sediment Drift Depo	rology Indicators: ators (any one indicators) Vater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5)		Water-Stained Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Stunted or Str	(11) tebrates (B1 fide Odor (Cospheres a Reduced Iro teduction in ressed Plan	I3) C1) long Livin n (C4) Plowed ts (D1) (I	ng Roots (Soils (C6)	Water-State ast) Sparsely Drainage Dry-Seas Saturation (C3) Geomorp Shallow A Frost-Hea FAC-Neuron	ained Leaves (B9) (NW coast) Vegetated Concave Surface (E Patterns (B10) on Water Table (C2) n Visible on Aerial Imagery (C9 hic Position (D2) Aquitard (D3) ave Hummocks (D4)	38)
Primary Indicate Surface V High Water Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Surface S	rology Indicators: ators (any one indicators (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) esits (B3) or Crust (B4) sits (B5) oil Cracks (B6) n Visible on Aerial Indicators:	nagery (B7)	Water-Stainer Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Stunted or Str Other (Explair	tebrates (B1) Idebrates (B1) Idebrates (B2) Idebrates a Reduced Iro Ideduction in Tressed Plan In in Remark	13) C1) long Livi n (C4) Plowed ts (D1) (I	ng Roots (Soils (C6) _RR A)	Water-State ast) Sparsely Drainage Dry-Seas Saturation (C3) Geomorp Shallow A Frost-Hea FAC-Neuron	ained Leaves (B9) (NW coast) Vegetated Concave Surface (E Patterns (B10) on Water Table (C2) n Visible on Aerial Imagery (C9 hic Position (D2) Aquitard (D3) ave Hummocks (D4) tral Test (D5)	38)
Wetland Hydromary Indicated Surface Valuration Water Ma Sediment Drift Depo Algal Mat Iron Depo Surface S Inundation	rology Indicators: ators (any one indicators (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) esits (B3) or Crust (B4) sits (B5) oil Cracks (B6) n Visible on Aerial Indicators:	nagery (B7)	Water-Stained Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Stunted or Str	tebrates (B1) Idebrates (B1) Idebrates (B2) Idebrates a Reduced Iro Ideduction in Tessed Plan In in Remark	13) C1) long Livi n (C4) Plowed ts (D1) (I	ng Roots (Soils (C6) _RR A)	Water-State ast) Sparsely Drainage Dry-Seas Saturation (C3) Geomorp Shallow A Frost-Hea FAC-Neuron	ained Leaves (B9) (NW coast) Vegetated Concave Surface (E Patterns (B10) on Water Table (C2) n Visible on Aerial Imagery (C9 hic Position (D2) Aquitard (D3) ave Hummocks (D4) tral Test (D5)	38)
Wetland Hydro Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Surface S Inundation	rology Indicators: ators (any one indicators (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) n Visible on Aerial Indications: Present?	nagery (B7)	Water-Stainer Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Stunted or Str Other (Explair	tebrates (B1) Infide Odor (Coopheres a Reduced Iro Reduction in Ressed Plan In in Remark	13) C1) long Livi n (C4) Plowed ts (D1) (I	ng Roots (Soils (C6) _RR A)	Water-State ast) Sparsely Drainage Dry-Seas Saturation (C3) Geomorp Shallow A Frost-Hea FAC-Neuron	ained Leaves (B9) (NW coast) Vegetated Concave Surface (E Patterns (B10) on Water Table (C2) n Visible on Aerial Imagery (C9 hic Position (D2) Aquitard (D3) ave Hummocks (D4) tral Test (D5)	38)
Wetland Hydro Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Surface S Inundation Field Observa Surface Water Water Table P Saturation Pre	rology Indicators: ators (any one indicators (any one indicators (any one indicators (and indi	nagery (B7) s <u> </u>	Water-Stainer Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Stunted or Str Other (Explair	itebrates (B1) itebrates (B1) itebrates (B2) cospheres a Reduced Iro teduction in ressed Plan in Remark thes):	(C1) long Living (C4) Plowed tts (D1) (Its)	ng Roots (C6) _RR A)	Water-State ast) Sparsely Drainage Dry-Seas Saturation (C3) Geomorp Shallow A Frost-Hea FAC-Neu Raised An	ained Leaves (B9) (NW coast) Vegetated Concave Surface (E Patterns (B10) on Water Table (C2) n Visible on Aerial Imagery (C9 hic Position (D2) Aquitard (D3) ave Hummocks (D4) tral Test (D5) nt Mounds (D6) (LRR A)	38)
Wetland Hydro Primary Indica Surface V High Water Ma Sediment Drift Depo Algal Mat Iron Depo Surface S Inundation Field Observa Surface Water Water Table P Saturation Pre (includes capill	rology Indicators: ators (any one indicators (any one indicators (any one indicators (and indicators) ators (A3) ators (B3) ators (B4) ators (B5) ators (B6) ators (B	nagery (B7) s <u> </u>	Water-Stainer Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Stunted or Str Other (Explair Depth (inc	tebrates (B1) fide Odor (Cospheres a Reduced Iro Reduction in ressed Plan in Remark hes): hes):	(13) C1) Iong Livin (C4) Plowed ts (D1) (I	ng Roots (C6) _RR A)	Water-Stanast) Water-Stanast) Sparsely Drainage Dry-Seas Saturation Geomorp Shallow AFrost-Heat FAC-Neu Raised And Hydrology Pres	ained Leaves (B9) (NW coast) Vegetated Concave Surface (E Patterns (B10) on Water Table (C2) n Visible on Aerial Imagery (C9 hic Position (D2) Aquitard (D3) ave Hummocks (D4) tral Test (D5)	38)
Wetland Hydro Primary Indica X Surface V High Water Ma Sediment Drift Depo Algal Mat Iron Depo Surface S Inundation Field Observa Surface Water Water Table P Saturation Pre (includes capil	rology Indicators: ators (any one indicators (any one indicators (any one indicators (and indi	nagery (B7) s <u> </u>	Water-Stainer Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Stunted or Str Other (Explair Depth (inc	tebrates (B1) fide Odor (Cospheres a Reduced Iro Reduction in ressed Plan in Remark hes): hes):	(13) C1) Iong Livin (C4) Plowed ts (D1) (I	ng Roots (C6) _RR A)	Water-Stanast) Water-Stanast) Sparsely Drainage Dry-Seas Saturation Geomorp Shallow AFrost-Heat FAC-Neu Raised And Hydrology Pres	ained Leaves (B9) (NW coast) Vegetated Concave Surface (E Patterns (B10) on Water Table (C2) n Visible on Aerial Imagery (C9 hic Position (D2) Aquitard (D3) ave Hummocks (D4) tral Test (D5) nt Mounds (D6) (LRR A)	38)
Wetland Hydro Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Surface S Inundation Field Observa Surface Water Water Table P Saturation Pre (includes capill Describe Reco	rology Indicators: ators (any one indicators (any one indicators (any one indicators (and one indicators) ators (A3) ators (B4) ators (B4) ators (B5) ators (B6) ator	nagery (B7) s No s No s No gauge, monit	Water-Stainer Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Stunted or Str Other (Explain Depth (inc	tebrates (B1) fide Odor (Cospheres a Reduced Iron Reduction in ressed Plan n in Remark hes): hes): hotos, previ	Ol) Iong Living (C4) Plowed tts (D1) (Iss) In (C4) Outs insp	Soils (C6) RR A) Wetla	Water-Stanast) Water-Stanast) Sparsely Drainage Dry-Seas Saturation Geomorp Shallow AFrost-Heat FAC-Neu Raised Arana Hydrology Present available:	ained Leaves (B9) (NW coast) Vegetated Concave Surface (E Patterns (B10) on Water Table (C2) n Visible on Aerial Imagery (C9 hic Position (D2) Aquitard (D3) ave Hummocks (D4) tral Test (D5) nt Mounds (D6) (LRR A)	38)
Wetland Hydro Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Surface S Inundation Field Observa Surface Water Water Table P Saturation Pre (includes capill Describe Reco	rology Indicators: ators (any one indicators (any one indicators (any one indicators (and one indicators) ators (A3) ators (B4) ators (B4) ators (B5) ators (B6) ator	nagery (B7) s No s No s No gauge, monit	Water-Stainer Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Stunted or Str Other (Explain Depth (inc	tebrates (B1) fide Odor (Cospheres a Reduced Iron Reduction in ressed Plan n in Remark hes): hes): hotos, previ	Ol) Iong Living (C4) Plowed tts (D1) (Iss) In (C4) Outs insp	Soils (C6) RR A) Wetla	Water-Stanast) Water-Stanast) Sparsely Drainage Dry-Seas Saturation Geomorp Shallow AFrost-Heat FAC-Neu Raised Arana Hydrology Present available:	ained Leaves (B9) (NW coast) Vegetated Concave Surface (E Patterns (B10) on Water Table (C2) n Visible on Aerial Imagery (C9 hic Position (D2) Aquitard (D3) ave Hummocks (D4) tral Test (D5) nt Mounds (D6) (LRR A)	38)
Wetland Hydro Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Surface S Inundation Field Observa Surface Water Water Table P Saturation Pre (includes capill Describe Reco	rology Indicators: ators (any one indicators (any one indicators (any one indicators (and one indicators) ators (A3) ators (B4) ators (B4) ators (B5) ators (B6) ator	nagery (B7) s No s No s No gauge, monit	Water-Stainer Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Stunted or Str Other (Explain Depth (inc	tebrates (B1) fide Odor (Cospheres a Reduced Iron Reduction in ressed Plan n in Remark hes): hes): hotos, previ	Ol) Iong Living (C4) Plowed tts (D1) (Iss) In (C4) Outs insp	Soils (C6) RR A) Wetla	Water-Stanast) Water-Stanast) Sparsely Drainage Dry-Seas Saturation Geomorp Shallow AFrost-Heat FAC-Neu Raised Arana Hydrology Present available:	ained Leaves (B9) (NW coast) Vegetated Concave Surface (E Patterns (B10) on Water Table (C2) n Visible on Aerial Imagery (C9 hic Position (D2) Aquitard (D3) ave Hummocks (D4) tral Test (D5) nt Mounds (D6) (LRR A)	38)
Wetland Hydro Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Surface S Inundation Field Observa Surface Water Water Table P Saturation Pre (includes capill Describe Reco	rology Indicators: ators (any one indicators (any one indicators (any one indicators (and one indicators) ators (A3) ators (B4) ators (B4) ators (B5) ators (B6) ator	nagery (B7) s No s No s No gauge, monit	Water-Stainer Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Stunted or Str Other (Explain Depth (inc	tebrates (B1) fide Odor (Cospheres a Reduced Iron Reduction in ressed Plan n in Remark hes): hes): hotos, previ	Ol) Iong Living (C4) Plowed tts (D1) (Iss) In (C4) Outs insp	Soils (C6) RR A) Wetla	Water-Stanast) Water-Stanast) Sparsely Drainage Dry-Seas Saturation Geomorp Shallow AFrost-Heat FAC-Neu Raised Arana Hydrology Present available:	ained Leaves (B9) (NW coast) Vegetated Concave Surface (E Patterns (B10) on Water Table (C2) n Visible on Aerial Imagery (C9 hic Position (D2) Aquitard (D3) ave Hummocks (D4) tral Test (D5) nt Mounds (D6) (LRR A)	38)
Wetland Hydro Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Surface S Inundation Field Observa Surface Water Water Table P Saturation Pre (includes capill Describe Reco	rology Indicators: ators (any one indicators (any one indicators (any one indicators (and one indicators) ators (A3) ators (B4) ators (B4) ators (B5) ators (B6) ator	nagery (B7) s No s No s No gauge, monit	Water-Stainer Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Stunted or Str Other (Explain Depth (inc	tebrates (B1) fide Odor (Cospheres a Reduced Iron Reduction in ressed Plan n in Remark hes): hes): hotos, previ	Ol) Iong Living (C4) Plowed tts (D1) (Iss) In (C4) Outs insp	Soils (C6) RR A) Wetla	Water-Stanast) Water-Stanast) Sparsely Drainage Dry-Seas Saturation Geomorp Shallow AFrost-Heat FAC-Neu Raised Arana Hydrology Present available:	ained Leaves (B9) (NW coast) Vegetated Concave Surface (E Patterns (B10) on Water Table (C2) n Visible on Aerial Imagery (C9 hic Position (D2) Aquitard (D3) ave Hummocks (D4) tral Test (D5) nt Mounds (D6) (LRR A)	38)

Projection Max time 5 lov h	A FUKINI-	vvestern	Mountai	ins, Valleys and Co	oast Region (DI	RAFT)
Project/Site: Martin 5 Jough Applicant/Owner: CoE		City/Count	y:	viera	Sampling Date: _	8/21/08
Investigator(s): Lester Webb		Section, To	ownship, Ra	ange:		
Landform (hillslope, terrace, etc.):		Local relie	f (concave,	convex, none):	Slo	oe (%):
Subregion (LRR):	Lat:			Long:	Datu	m:
Soil Map Unit Name:		······································		NWI classi	fication:	
Are climatic / hydrologic conditions on the site typical for	this time of ye	ear? Yes _	No_	(If no, explain in	Remarks.)	•
Are Vegetation, Soil, or Hydrology	significantly	disturbed?	Are	"Normal Circumstances"	present? Yes 🔽	No
Are Vegetation, Soil, or Hydrology	naturally pro	oblematic?	(If n	eeded, explain any answ	vers in Remarks.)	
SUMMARY OF FINDINGS - Attach site ma	ap showing	ı samplin	ig point l	ocations, transect	s. important fe	atures etc
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	No No No	ls th	ne Sampleo	l Area	No	•
VEGETATION	-10	•				
	Absolute	Dominant	Indicator	Dominance Test wor	'kshoot'	
Tree Stratum (Use scientific names.) 1	<u>% Cover</u>	Species?	Status	Number of Dominant & That Are OBL, FACW,	0	(A)
3				Total Number of Domi Species Across All Str	inant	(B)
4Total Co	over:			Percent of Dominant S That Are OBL, FACW,	Species .	
1				Prevalence Index wo	rksheet:	
2				Total % Cover of:		
3				OBL species		
4				FACW species		
	ver:			FACULTURE TO SERVICE T		
Herb Stratum 0		•		FACU species		
1. Trifolium refers	20		FACU	Column Totals:	x 5 =	
2. <u>Lolium Perene</u>		<u>~</u> _	FAC	Column Fotals.	(^)	(D)
3. Poz annua	20_		FACW-		x = B/A =	
4. Agrostic capillaris	<u> 76</u>		BNL	Hydrophytic Vegetati		
5. POZ prajensis	20	<u> </u>	FACU	Dominance Test is		
6				Prevalence Index		
78				data in Remark	aptations¹ (Provide s s or on a separate s	upporting heet)
Total Co	ver: _\@0	 -		Wetland Non-Vaso		
Woody Vine Stratum	<u></u>			Problematic Hydro	phytic Vegetation¹ (Explain)
1				Indicators of hydric so		
2				be present.		
Total Co % Bare Ground in Herb Stratum	ver:			Hydrophytic Vegetation Present? Ye	es No_ <u>\</u>	
Remarks:						

Profile Description: (Describe to the depth needed to document the indicate in	Sampling Point: WIT
Depth Matrix Redox Features	cater or confirm the absence of indicators.)
(Section 2)	ype ¹ Loc ² Texture Remarks
0-15 IONR3/4 100	
	26/0 11
13-18 2.54 7/3 43 2.544/1.36D,M 104R	1/4 2/6 C/M LOAM (mixed)
Type C-Constitution D. D. L. II. D. D. L. II.	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL lydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	=Pore Lining, RC=Root Channel, M=Matrix.
	Indicators for Problematic Hydric Soils
Histosol (A1)	2 cm Muck (A10)
Black Histic (A3) Loamy Mucky Mineral (F1) (ex	<pre>math represent Material (TF2) xcept MLRA 1)</pre>
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	Cuto (Explain in Nellains)
Depleted Below Dark Surface (A11) Depleted Matrix (F3)	
Thick Dark Surface (A12) Redox Dark Surface (F6)	
Sandy Mucky Mineral (S1) — Depleted Dark Surface (F7) Sandy Claud Makin (S4)	³ Indicators of hydrophytic vegetation and
Sandy Gleyed Matrix (S4) Redox Depressions (F8) destrictive Layer (if present):	wetland hydrology must be present.
· , 7 _A	
Type:	Hydric Soil Present? Yes No _
Depth (inches): NA	Hydric Soil Present? Yes No _
Depth (inches):	Hydric Soil Present? Yes No_
Depth (inches):NA Remarks: 4' From line /DROLOGY	
Depth (inches):	Secondary Indicators (2 or more required)
Poepth (inches):	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coas
Depth (inches):NA Remarks: Urrow line PDROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicator is sufficient) Surface Water (A1) Water-Stained Leaves (B9)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coas (except NW coast) Sparsely Vegetated Concave Surface
Depth (inches):	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coas (except NW coast) Sparsely Vegetated Concave Surface Drainage Patterns (B10)
Popth (inches):	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coas (except NW coast) Sparsely Vegetated Concave Surface Drainage Patterns (B10) Dry-Season Water Table (C2)
Depth (inches):	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coas (except NW coast) Sparsely Vegetated Concave Surface Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C2)
Depth (inches):	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coase) (except NW coast) Sparsely Vegetated Concave Surface Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Caption (D2)) Staturation (D2) Shallow Aquitard (D3)
Depth (inches):	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coase) (except NW coast) Sparsely Vegetated Concave Surface Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Caption (D2)) Staturation (D2) Shallow Aquitard (D3)
Popth (inches):	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coase) (except NW coast) Sparsely Vegetated Concave Surface Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Caption (D2)) Geomorphic Position (D2) Shallow Aquitard (D3) Owed Soils (C6) Frost-Heave Hummocks (D4)
Depth (inches): NA Remarks: Cron line Portion line Port	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Caption of Caption (D2) Geomorphic Position (D2) C4) Shallow Aquitard (D3) Water-Stained Leaves (B9) (NW coast (D4)
Depth (inches): NA Remarks: Crom line Portion line Port	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Castronia Companies Castronia Companies Castronia Companies Castronia Companies Castronia Companies Castronia Castron
Popth (inches):	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Castronia Companies Castronia Companies Castronia Companies Castronia Companies Castronia Companies Castronia Castron
Popth (inches):	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coas) (except NW coast) Sparsely Vegetated Concave Surface Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Ca) Geomorphic Position (D2) Shallow Aquitard (D3) Owed Soils (C6) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Popth (inches): NA Remarks: Crimary Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Salt Crust (B11) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres alon Drift Deposits (B3) Presence of Reduced Iron (C1) Iron Deposits (B5) Stunted or Stressed Plants (C1) Surface Soil Cracks (B6) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Ield Observations: Urface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches):	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coase) (except NW coast) Sparsely Vegetated Concave Surface Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Ca) Geomorphic Position (D2) C4) Shallow Aquitard (D3) Owed Soils (C6) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Popth (inches):	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coas (except NW coast) Sparsely Vegetated Concave Surface Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Ca) Geomorphic Position (D2) C4) Shallow Aquitard (D3) C4) Shallow Aquitard (D3) C5 Frost-Heave Hummocks (D4) C6 FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Poper (inches):	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coase) (except NW coast) Sparsely Vegetated Concave Surface Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Casturation Visible on Aeria
Depth (inches):	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coase) (except NW coast) Sparsely Vegetated Concave Surface Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Casturation Visible on Aeria

WEILAND DETERMINATION DATA FO	ORIVI —	Westerr	₁ Mounta	ins, Valleys and Co	oast Region (DRAF	FT)
Project/Site: Martin Slouh		City/Cour	nty: <u>£</u> 1	veka	Sampling Date: 😽	1/21/
Applicant/Owner:				Chata, A.A.		1 T2
Investigator(s): Lester Webb		Section, 7	Township, R.	lange:		
Landform (hillslope, terrace, etc.):		Local reli	ief (concave,	, convex. none):	Slane /	0/1.
Subregion (LRR):	_ _ Lat:	<u> </u>		Long:	Dotum:	%):
Soil Map Unit Name:				NWI classif	Datum, _	
Are climatic / hydrologic conditions on the site typical for this t	time of ve	ar? Yes	No	/If no evoloin in	ncation;	
Are Vegetation, Soil, or Hydrologysig	nificantly	disturbed'				,
Are Vegetation, Soil, or Hydrology nat				"Normal Circumstances"		No
			•	eeded, explain any answ	ers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map si	nowing	sampli	ng point	locations, transect	s, important featur	res, etc
Hydrophytic Vegetation Present? Yes No		la.	u Ozmanla			
Hydric Soil Present? Yes No _		131	the Sampled thin a Wetla	•	/	
Wetland Hydrology Present? Yes Ves No Remarks:		****	IIII a vveua	nd? Yes	No	
Montin Slough edge						
•						
VEGETATION						
	Absolute	Dominar	nt Indicator	Dominance Test week	F= 1 2	
Tree Stratum (Use scientific names.)	% Cover	Species?	? Status	Dominance Test work Number of Dominant S		:
1		-		That Are OBL, FACW,	or FAC:5	_ (A)
2				Total Number of Domir	nont	7 .
3				Species Across All Stra		(B)
Total Course		-		Percent of Dominant S	inecies .	
Sapling/Shrub Stratum Total Cover: _				That Are OBL, FACW,	or FAC:	_ (A/B)
1.				Prevalence Index wor	ksheet:	
2		-		Total % Cover of:		
3		<u> </u>		I .	x1=	
4				FACW species	x 2 =	
J				FAC species	x 3 =	
Herb Stratum				FACU species		
1. Ocnande samentosa	20	٠ س	OBL		x 5 =	
2. Scippus microphyllus	20	V	FACW	Column Totals:	(A)	(B)
3. Phaldris arundinacaae	20	·V	OBL	Prevalence Index	= B/A =	
4. Cely ceria elata	20	<u> </u>	OBL	Hydrophytic Vegetation	on Indicators:	
	20		OBL	X Dominance Test is		
6				Prevalence Index is		
7			·	Morphological Adap	ptations¹ (Provide suppo	orting
8				Wetland Non-Vasci	s or on a separate sheet	.)
Woody Vine Stratum	(,00				ular Plants* phytic Vegetation¹ (Expla	~:n\
1				¹Indicators of hydric soil	l and wetland hydrology	alli) muet
2				be present.	and wedding nydrology	musi
Total Cover:				Hydrophytic		
% Bare Ground in Herb Stratum				Vegetation	·/	
Remarks:				Present? Yes	SNo	
•						

		th needed to document the indicator or conf	
Depth Ma (inches) Color (moi	st) %	Redox Features	<u> </u>
0-4" 104R3/2		Color (moist) % Type ¹ Loc ²	Texture Remarks
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			Siltleam
4-12 LOYR-3/3	<u>, 95%</u>	104R3/6 5% C RC/H	1 silt lam
	·		
<i>[</i> 3,			
¹ Type: C=Concentration D:	=Depletion BM=	Poduced Matrix 21 - 12 - 12 - 12	
Hydric Soil Indicators: (A	oplicable to all l	Reduced Matrix. ² Location: PL=Pore Lining, RRs, unless otherwise noted.)	RC=Root Channel, M=Matrix.
Histosol (A1)	ppoab.c to un		Indicators for Problematic Hydric Soils ³ :
Histic Epipedon (A2)	•	Sandy Redox (S5) Stripped Matrix (S6)	2 cm Muck (A10)
Black Histic (A3)		Loamy Mucky Mineral (F1) (except MLRA	Red Parent Material (TF2)
Hydrogen Sulfide (A4)	-	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark St	urface (A11)	Depleted Matrix (F3)	•
Thick Dark Surface (A12	2) .	Redox Dark Surface (F6)	
Sandy Mucky Mineral (S	31)	Depleted Dark Surface (F7)	³ Indicators of hydrophytic vegetation and
Sandy Gleyed Matrix (S	4)	Redox Depressions (F8)	wetland hydrology must be present.
Restrictive Layer (if preser	it):		y and gy made 20 production
Type: No		<u> </u>	•
Depth (inches):			Hydric Soil Present? Yes No
Remarks: OHW at	wetland 1	in.	
2 from line		,	
, ,			
elasev.	÷		
HYDROLOGY		_	
		± 4.	
Wetland Hydrology Indicate		4.	Secondary Indicators (2 or more required)
Wetland Hydrology Indicate Primary Indicators (any one in			Water-Stained Leaves (B9) (NW coast)
Wetland Hydrology Indicate Primary Indicators (any one in Surface Water (A1)		Water-Stained Leaves (B9) (except NW c	Water-Stained Leaves (B9) (NW coast)
Wetland Hydrology Indicate Primary Indicators (any one in Surface Water (A1) High Water Table (A2)		Water-Stained Leaves (B9) (except NW c Salt Crust (B11)	water-Stained Leaves (B9) (NW coast) oast) Sparsely Vegetated Concave Surface (B8)
Wetland Hydrology Indicate Primary Indicators (any one in Surface Water (A1) High Water Table (A2) Saturation (A3)		Water-Stained Leaves (B9) (except NW c Salt Crust (B11) Aquatic Invertebrates (B13)	water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hydrology Indicate Primary Indicators (any one in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)		Water-Stained Leaves (B9) (except NW c Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicate Primary Indicators (any one in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)		Water-Stained Leaves (B9) (except NW c Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicate Primary Indicators (any one in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)		Water-Stained Leaves (B9) (except NW c Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4)	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicate Primary Indicators (any one in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)		Water-Stained Leaves (B9) (except NW c Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicate Primary Indicators (any one in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)		Water-Stained Leaves (B9) (except NW c Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4)	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicate Primary Indicators (any one in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	ndicator is suffici	Water-Stained Leaves (B9) (except NW c Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5)
Wetland Hydrology Indicate Primary Indicators (any one in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aer	ndicator is suffici	Water-Stained Leaves (B9) (except NW c Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4)
Wetland Hydrology Indicate Primary Indicators (any one in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aer Field Observations:	ndicator is suffici	Water-Stained Leaves (B9) (except NW c Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5)
Wetland Hydrology Indicate Primary Indicators (any one in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aer Field Observations: Surface Water Present?	ndicator is suffici	Water-Stained Leaves (B9) (except NW c Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Seconorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5)
Wetland Hydrology Indicate Primary Indicators (any one in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	ndicator is suffici	Water-Stained Leaves (B9) (except NW c Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Seconorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5)
Wetland Hydrology Indicate Primary Indicators (any one in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aer Field Observations: Surface Water Present? Water Table Present? Saturation Present?	ial Imagery (B7) Yes No	Water-Stained Leaves (B9) (except NW c Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) Depth (inches):	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicate Primary Indicators (any one in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aer Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	ial Imagery (B7) Yes X No Yes X No	Water-Stained Leaves (B9) (except NW c Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) Depth (inches): Depth (inches): Wetl	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicate Primary Indicators (any one in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aer Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	ial Imagery (B7) Yes X No Yes X No	Water-Stained Leaves (B9) (except NW c Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) Depth (inches):	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicate Primary Indicators (any one in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aer Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	ial Imagery (B7) Yes X No Yes X No	Water-Stained Leaves (B9) (except NW c Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) Depth (inches): Depth (inches): Wetl	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicate Primary Indicators (any one in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aer Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	ial Imagery (B7) Yes X No Yes X No	Water-Stained Leaves (B9) (except NW c Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) Depth (inches): Depth (inches): Wetl	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicate Primary Indicators (any one in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aer Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	ial Imagery (B7) Yes X No Yes X No	Water-Stained Leaves (B9) (except NW c Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) Depth (inches): Depth (inches): Wetl	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicate Primary Indicators (any one in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aer Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	ial Imagery (B7) Yes X No Yes X No	Water-Stained Leaves (B9) (except NW c Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) Depth (inches): Depth (inches): Wetl	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicate Primary Indicators (any one in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aer Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stre	ial Imagery (B7) Yes X No Yes X No	Water-Stained Leaves (B9) (except NW c Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) Depth (inches): Depth (inches): Wetl	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)

WEILAND DETERMINATION DATA	FORM -	Westerr	1 Mounta	ins, Valleys and Coast Region (DRAFT)
Project/Site: Matty Slov, N	·	City/Coun	ty: <u> </u>	Vieka Sampling Date: 621
Applicant/Owner: 2 Jielex 1				State: Sampling Point: 113 T
Investigator(s):		Section, T	ownship. R	Range:
Landform (hillslope, terrace, etc.):	···········	Local reli	ef (concave	c, convex, none): Slone (%):
Subregion (LRR):	Lat:		•	Lona: Datum:
Soil Map Unit Name:				NIM/ classification:
Are climatic / hydrologic conditions on the site typical for this	s time of ve	ar? Yes	No	/If no explain in Remerks)
Are Vegetation, Soil, or Hydrologys	ignificantly	disturbed?		
Are Vegetation, Soil, or Hydrologyn				"Normal Circumstances" present? Yes No
			•	needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	snowing	samplii	ng point	locations, transects, important features, etc
Hydrophytic Vegetation Present? Yes No	·	lat	he Sample	4.4
Hydric Soil Present? Yes No			ne Sample. hin a Wetla	
Wetland Hydrology Present? Yes No	<u> </u>			nid: resNo
Remarks.				
VEGETATION				
	Absolute	Dominan	t Indicator	Dominance Test worksheet:
	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1	·			That Are OBL, FACW, or FAC: (A)
2	·			Total Number of Dominant
3				Species Across All Strata:
Total Cover:	-		<u> </u>	Percent of Dominant Species
Sapling/Shrub Stratum				That Are OBL, FACW, or FAC: 40 (A/B)
1				Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
3 4				OBL species x 1 =
5				FACW species x 2 =
Total Cover:				FAC species x 3 = FACU species x 4 =
Herb Stratum				UPL species x 5 =
1. SCIV PUS MICRO CALPUS	20	<u></u>	FACW	Column Totals: (A) (B)
2. Tritation legens	20	<u>~</u>	Excr	
3. Bronno hordeaceus 4. Hypochzenia radiczta	20	<u></u>	FACU	Prevalence Index = B/A =
5. Poa annya	20	<u>~</u>	NL	Hydrophytic Vegetation Indicators:
6	20_		FACW-	Dominance Test is >50% Prevalence Index is ≤3.0¹
7				Morphological Adaptations¹ (Provide supporting)
8		· · · · · · · · · · · · · · · · · · ·		data in Remarks or on a separate sheet)
Total Cover:	100			Wetland Non-Vascular Plants ¹
Woody Vine Stratum			•	Problematic Hydrophytic Vegetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetland hydrology must be present.
ZTotal Cover:		 -		
				Hydrophytic Vegetation
% Bare Ground in Herb Stratum				Present? Yes No
Remarks:				

Profile Description: (Describe to the	depth needed to document the indicator or confi	Sampling Point: <u>U.3</u> rm the absence of indicators.)
Depth Matrix (inches) Color (moist) %	Redox Features	-
D-13" 104R3 3 10		/ Itellians
12-18 10103/3		Joan
10-10 109K 12 95	104R4/4 270C M	<u>loam</u>
T		
lydric Soil Indicators: (Applicable to	RM=Reduced Matrix. ² Location: PL=Pore Lining,	
Histosol (A1)	The state of the s	Indicators for Problematic Hydric Soils ³ :
Histic Epipedon (A2)	Sandy Redox (S5) Stripped Matrix (S6)	2 cm Muck (A10)
_ Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1	Red Parent Material (TF2) Other (Explain in Remarks)
_ Hydrogen Sulfide (A4)	Loamy Gleved Matrix (F2)	Onler (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	Redox Dark Surface (F6)	_
Sandy Gleyed Matrix (S4)	Depleted Dark Surface (F7) Redox Depressions (F8)	³ Indicators of hydrophytic vegetation and
		Welland hydrology must be present
estrictive Layer (if present):	(i b)	wetland hydrology must be present.
Restrictive Layer (if present): Type:		wedand hydrology must be present.
Type: Depth (inches):		
Type: Depth (inches):		
Type: Depth (inches):		
Type:		
Type: Depth (inches): emarks:		
Type:		Hydric Soil Present? Yes No
Type: Depth (inches): emarks: 'DROLOGY etland Hydrology Indicators:		Hydric Soil Present? Yes No Secondary Indicators (2 or more required)
Type: Depth (inches): emarks: 'DROLOGY etland Hydrology Indicators:	ufficient)	Hydric Soil Present? Yes No
Type: Depth (inches): emarks: DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is s	ufficient) Water-Stained Leaves (B9) (except NW co	Hydric Soil Present? Yes No
Type: Depth (inches): emarks: //DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is s _ Surface Water (A1)	ufficient) Water-Stained Leaves (B9) (except NW co	Hydric Soil Present? Yes No
Type: Depth (inches): emarks: DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is s _ Surface Water (A1) _ High Water Table (A2)	ufficient) Water-Stained Leaves (B9) (except NW co Salt Crust (B11) Aquatic Invertebrates (B13)	Hydric Soil Present? Yes No
Type: Depth (inches): emarks: DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is s _ Surface Water (A1) _ High Water Table (A2) _ Saturation (A3)	ufficient) Water-Stained Leaves (B9) (except NW composed in the composed	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (E Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Type:	ufficient) Water-Stained Leaves (B9) (except NW co Salt Crust (B11) Aquatic Invertebrates (B13)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (E Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Type:	ufficient) — Water-Stained Leaves (B9) (except NW composed Salt Crust (B11) — Aquatic Invertebrates (B13) — Hydrogen Sulfide Odor (C1) — Oxidized Rhizospheres along Living Roots	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (E Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3)
Type:	ufficient) Water-Stained Leaves (B9) (except NW composed in the composed in t	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (E Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3)
Type:	ufficient) Water-Stained Leaves (B9) (except NW composed Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (E Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4)
Type:	ufficient) Water-Stained Leaves (B9) (except NW composed Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (E Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5)
Type:	ufficient) — Water-Stained Leaves (B9) (except NW composed Salt Crust (B11) — Aquatic Invertebrates (B13) — Hydrogen Sulfide Odor (C1) — Oxidized Rhizospheres along Living Roots — Presence of Reduced Iron (C4) — Recent Iron Reduction in Plowed Soils (C6) — Stunted or Stressed Plants (D1) (LRR A) — Other (Explain in Remarks)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (E Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5)
Type:	ufficient) — Water-Stained Leaves (B9) (except NW composed Salt Crust (B11) — Aquatic Invertebrates (B13) — Hydrogen Sulfide Odor (C1) — Oxidized Rhizospheres along Living Roots — Presence of Reduced Iron (C4) — Recent Iron Reduction in Plowed Soils (C6) — Stunted or Stressed Plants (D1) (LRR A) — Other (Explain in Remarks) [B7] No Depth (inches):	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (E Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5)
Type:	ufficient) Water-Stained Leaves (B9) (except NW composed Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (E Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Type:	ufficient) Water-Stained Leaves (B9) (except NW composed Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (E Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5)

Sampling Point:	10	PK
Sampling Point:		1

I TOTHE DESI	cription: (Describe	to the denth	needed to document the indicator or co	Sampling Point:
Depth	Matrix		Redox Features	ntirm the absence of indicators.)
(inches)	Color (moist)	%	Color (moist) % Type¹ Loc	c ² Texture Remarks
<u> 0-8</u>	2.544/2	100	2544/2	_ sandy toam
18-15	54412	96	MRYL 28CM/2	1141, 7% 111/2
			VIX 1321 VI V	of the Colors)
-				
		·		<u> </u>
				
¹ Type: C=Co	oncentration, D=Deple	etion RM=R	aduced Matrix 21 costions DI - Day 11:	DO DO DO
Hydric Soil I	ndicators: (Applica	ble to all LR	Rs, unless otherwise noted.)	ng, RC=Root Channel, M=Matrix.
Histosol			Sandy Redox (S5)	Indicators for Problematic Hydric Soils ³ :
Histic Ep	ipedon (A2)		Stripped Matrix (S6)	2 cm Muck (A10) Red Parent Material (TF2)
Black His			Loamy Mucky Mineral (F1) (except MLRA	A 1) Other (Explain in Remarks)
	n Sulfide (A4)	5	Loamy Gleyed Matrix (F2)	
	Below Dark Surface rk Surface (A12)	(A11) <u>25</u>	Depleted Matrix (F3)	
	ucky Mineral (S1)	•	Redox Dark Surface (F6)	3.
Sandy GI	leyed Matrix (S4)	-	Depleted Dark Surface (F7) Redox Depressions (F8)	³ Indicators of hydrophytic vegetation and
	ayer (if present):		The dest Depressions (1 0)	wetland hydrology must be present.
Туре:			<u></u>	
Depth (incl	hes):			Hydric Soil Present? Yes No
Remarks:	~			nydric Soil Present? Yes No No
~15'-		line	•	
Redox	Leater	pe le	nan be temana	material from
of	DONG.	Welva.	10.00	nt from dissins out
<1V	and the	-112W	lacks wet seaso	n hydrology Not
HYDROLOG	v 00	-Sax	prostic vosetati	M. 5 - 19 , 100
		<u> </u>		·
	rology Indicators: tors (any one indicate			Secondary Indicators (2 or more required)
Surface W		or is sumicien		Water-Stained Leaves (B9) (NW coast)
	er Table (A2)	_	Water-Stained Leaves (B9) (except NW	
Saturation		_	Salt Crust (B11)	Drainage Patterns (B10)
Water Mai			Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
	Deposits (B2)	-		Saturation Visible on Aerial Imagery (C9)
	sits (B3)	_	Oxidized Rhizospheres along Living Roo Presence of Reduced Iron (C4)	· ' '
Drift Depo	sits (B3) or Crust (B4)	_	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)
Drift Depo	or Crust (B4)	- -	Presence of Reduced Iron (C4)Recent Iron Reduction in Plowed Soils (I	Shallow Aquitard (D3) C6) Frost-Heave Hummocks (D4)
Drift Depo Algal Mat Iron Depos	or Crust (B4)	- -	Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (Stunted or Stressed Plants (D1) (LRR A	Shallow Aquitard (D3) C6) Frost-Heave Hummocks (D4) J FAC-Neutral Test (D5)
Drift Depo Algal Mat Iron Depos Surface So	or Crust (B4) sits (B5)		Presence of Reduced Iron (C4)Recent Iron Reduction in Plowed Soils (I	Shallow Aquitard (D3) C6) Frost-Heave Hummocks (D4)
Drift Depo Algal Mat Iron Depos Surface So	or Crust (B4) sits (B5) oil Cracks (B6) o Visible on Aerial Ima		Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (Stunted or Stressed Plants (D1) (LRR A	Shallow Aquitard (D3) C6) Frost-Heave Hummocks (D4) J FAC-Neutral Test (D5)
Drift Depo Algal Mate Iron Depos Surface So Inundation	or Crust (B4) sits (B5) oil Cracks (B6) visible on Aerial Ima	gery (B7)	Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C4) Stunted or Stressed Plants (D1) (LRR A4) Other (Explain in Remarks)	Shallow Aquitard (D3) C6) Frost-Heave Hummocks (D4) J FAC-Neutral Test (D5)
Drift Depo Algal Mat Iron Depos Surface So Inundation Field Observa	or Crust (B4) sits (B5) oil Cracks (B6) visible on Aerial Imations: Present? Yes		Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (Stunted or Stressed Plants (D1) (LRR A	Shallow Aquitard (D3) C6) Frost-Heave Hummocks (D4) J FAC-Neutral Test (D5)
Drift Depo Algal Mat Iron Depos Surface So Inundation Field Observa Surface Water Water Table Pr Saturation Pres	or Crust (B4) sits (B5) oil Cracks (B6) visible on Aerial Imations: Present? Yes resent? Yes sent? Yes	No	Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C4) Stunted or Stressed Plants (D1) (LRR A2) Other (Explain in Remarks) Depth (inches): Depth (inches):	Shallow Aquitard (D3) C6) Frost-Heave Hummocks (D4) .) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Drift Depo Algal Mat Iron Depos Surface So Inundation Field Observa Surface Water Water Table Pr Saturation Pres (includes capilla	or Crust (B4) sits (B5) oil Cracks (B6) i Visible on Aerial Imations: Present? resent? resent? resent? yes sent? Yes ary fringe)	No No No	Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C4) Stunted or Stressed Plants (D1) (LRR A2) Other (Explain in Remarks) Depth (inches): Depth (inches): We	Shallow Aquitard (D3) C6) Frost-Heave Hummocks (D4) .) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) etland Hydrology Present? Yes No
Drift Depo Algal Mat Iron Depos Surface So Inundation Field Observa Surface Water Water Table Pr Saturation Pres (includes capilla	or Crust (B4) sits (B5) oil Cracks (B6) i Visible on Aerial Imations: Present? resent? resent? resent? yes sent? Yes ary fringe)	No No No	Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C4) Stunted or Stressed Plants (D1) (LRR A2) Other (Explain in Remarks) Depth (inches): Depth (inches):	Shallow Aquitard (D3) C6) Frost-Heave Hummocks (D4) .) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) etland Hydrology Present? Yes No
Drift Depo Algal Mat Iron Depos Surface So Inundation Field Observa Surface Water Water Table Pr Saturation Pres (includes capill) Describe Recon	or Crust (B4) sits (B5) oil Cracks (B6) i Visible on Aerial Imations: Present? resent? resent? resent? yes sent? Yes ary fringe)	No No No	Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C4) Stunted or Stressed Plants (D1) (LRR A2) Other (Explain in Remarks) Depth (inches): Depth (inches): We	Shallow Aquitard (D3) C6) Frost-Heave Hummocks (D4) .) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) etland Hydrology Present? Yes No
Drift Depo Algal Mat Iron Depos Surface So Inundation Field Observa Surface Water Water Table Pr Saturation Pres (includes capilla	or Crust (B4) sits (B5) oil Cracks (B6) i Visible on Aerial Imations: Present? resent? resent? resent? yes sent? Yes ary fringe)	No No No	Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C4) Stunted or Stressed Plants (D1) (LRR A Other (Explain in Remarks) Depth (inches): Depth (inches): Depth (inches): We ing well, aerial photos, previous inspections	Shallow Aquitard (D3) C6) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) etland Hydrology Present? Yes No s), if available:
Drift Depo Algal Mat Iron Depos Surface So Inundation Field Observa Surface Water Water Table Pr Saturation Pres (includes capill) Describe Recon	or Crust (B4) sits (B5) oil Cracks (B6) I Visible on Aerial Ima tions: Present? Yes resent? Yes sent? Yes ary fringe) rded Data (stream ga	No N	Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C4) Stunted or Stressed Plants (D1) (LRR A Other (Explain in Remarks) Depth (inches): Depth (inches): Depth (inches): We ing well, aerial photos, previous inspections	Shallow Aquitard (D3) C6) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) etland Hydrology Present? Yes No s), if available:
Drift Depo Algal Mat Iron Depos Surface So Inundation Field Observa Surface Water Water Table Pr Saturation Pres (includes capill) Describe Recon	or Crust (B4) sits (B5) oil Cracks (B6) I Visible on Aerial Ima tions: Present? Yes resent? Yes sent? Yes ary fringe) rded Data (stream ga	No N	Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C4) Stunted or Stressed Plants (D1) (LRR A Other (Explain in Remarks) Depth (inches): Depth (inches): Depth (inches): We ing well, aerial photos, previous inspections	Shallow Aquitard (D3) C6) Frost-Heave Hummocks (D4) .) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) etland Hydrology Present? Yes No
Drift Depo Algal Mat Iron Depos Surface So Inundation Field Observa Surface Water Water Table Pr Saturation Pres (includes capill) Describe Recon	or Crust (B4) sits (B5) oil Cracks (B6) I Visible on Aerial Ima tions: Present? Yes resent? Yes sent? Yes ary fringe) rded Data (stream ga	No N	Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C4) Stunted or Stressed Plants (D1) (LRR A2) Other (Explain in Remarks) Depth (inches): Depth (inches): Depth (inches): We ing well, aerial photos, previous inspections	Shallow Aquitard (D3) C6) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) etland Hydrology Present? Yes No

Profile Descriptio	n: (Describe	to the de	oth needed to doc	ument the	indicator	r or confirm	the absence	of indicat	Sampling Poir	<u>. </u>
Depth	Matrix			dox Feature				or marcar	.013.)	
(A)	olor (moist)	- %	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
200 2.	344/3	100					SLACY	oan		
5-16 54	4/2	<u>48</u>	104R314	296	C,	RC.	silt loa			
							-111 100V	-14		
									 -	
				-						 .
										
									•	
		- ——						_		
	j\$1.5									
ype: C=Concent	ation, D=Dep	letion, RM=	Reduced Matrix.	² Location	n: PL=Por	re Lining, R	C=Root Chann	el M≃Mat	riy	
	ors: (Applic	able to all	LRRs, unless other	erwise not	ed.)				lematic Hyd	ric Soils ³
_ Histosol (A1)			Sandy Redox	(S5)				Muck (A1		
 Histic Epipedor Black Histic (A3 			Stripped Matri						terial (TF2)	
_ Black Histic (As _ Hydrogen Sulfid			Loamy Mucky	Mineral (F	1) (except	t MLRA 1)			in Remarks)	
_ Depleted Below		- (Δ11)	Loamy Gleyed Depleted Matr		(:)			•		
_ Thick Dark Surl	ace (A12)		Redox Dark Si							
_ Sandy Mucky N	fineral (S1)		Depleted Dark				3Indicator	e of budro	ohytic vegetat	:
_ Sandy Gleyed I	Matrix (S4)		Redox Depres	-	.,		wetlan	d hydrolog	y must be pre	ion and
estrictive Layer (i	if present):								, muot be pre	
Туре:										
Depth (inches): _			 .				Hydric Soil I	Present?	Yes X	No
Depth (inches): _		1:1=0			1			Present?	Yes	No
Depth (inches): _		ditie	mus 100	silv	ly.	DOM		Present?	Yes X	No
Depth (inches): _		dition	mo po	sib	ly ·	TRW		Present?	ves_X	No_
Depth (inches): _		dition	ons po	sib	ly long	Tew Sh		Present?	Yes X	No_
Depth (inches): _	il oon	ring	ons po	die	ly	ren L	Hydric Soil F Mant	Present?	yes_X V Ma else	No_
Depth (inches): _ emarks: by wich so side on proper 3' from		ring	ons po from	sibo	ly Long	TRW Sh		Present?	yes_X V ma else	teric who
Depth (inches): _ emarks: VAINIC SO OIDE TO PROPE TO	il oon (ust rts wetten	ring	ons po from	silv Sl	ly Long	TRW Sh	mant or 45	O.	s mai	terio
Depth (inches): _ emarks: Depth (inches): _ ema	(UST (UST INPATON	il bi	ine	sib S	ly Long	New Th	want or y	Ov V OVV	o ma else	
Depth (inches): _emarks: Depth (inches): _e	Indicators:	il bi	ient)				Nant Or Jo	Ov V OVV	s mai	
Depth (inches): _emarks: DEPTH STATE OF THE PROPERTY INDICATORS (a Surface Water (a Surfac	Indicators:	il bi	ient) Water-Staine	ed Leaves (Secondar — Water st) — Spars	V Indicators	S (2 or more reeaves (B9) (Noted Concave	IW coast
Depth (inches): _emarks: DROLOGY etland Hydrology imary Indicators (a Surface Water (a) High Water Table	Indicators:	il bi	ient) Water-Staine Salt Crust (B	ed Leaves ((B9) (exce		Secondar Water Spars Drain	y Indicators -Stained Lely Vegeta	s (2 or more reeaves (B9) (Noted Concave in s (B10)	IW coast Surface (
Depth (inches): _emarks: DROLOGY etland Hydrology mary Indicators (a Surface Water (a High Water Tabl Saturation (A3)	Indicators: any one indicators (A2)	il bi	ient) Water-Staine Salt Crust (B Aquatic Inve	ed Leaves (111) rtebrates (E	(B9) (exce		Secondar Water St) Spars Drain: Dry-S	y IndicatorsStained Lely Vegeta age Patters eason Wal	s (2 or more reeaves (B9) (Noted Concave ins (B10) iter Table (C2)	IW coast Surface (
Depth (inches): _emarks: DROLOGY Etland Hydrology mary Indicators (a Surface Water (a High Water Tabl Saturation (A3) Water Marks (B1)	Indicators: any one indica (A2)	il bi	ient) Water-Staine Salt Crust (B Aquatic Inve	ed Leaves (111) rtebrates (E	(B9) (exce 313) (C1)	ept NW coa	Secondar Water Spars Drain Dry-S Satur	y Indicators -Stained Lely Vegeta age Patters eason Was	s (2 or more reeaves (B9) (Noted Concave in Section (B10) iter Table (C2) iter on Aerial Im	IW coast Surface (
Depth (inches): _emarks: DROLOGY etland Hydrology imary Indicators (a Surface Water (a) High Water Tabl Saturation (A3) Water Marks (B1) Sediment Depos	Indicators: iny one indica A1) e (A2) iits (B2)	il bi	ient) Water-Staine Salt Crust (B Aquatic Invei Hydrogen St Oxidized Rhi	ed Leaves (111) rtebrates (E ilfide Odor zospheres	(B9) (exce 313) (C1) along Livi	ept NW coa	Secondar Water St) Spars Drain Dry-S Saturi	y Indicators -Stained Lely Vegeta age Patters eason War ation Visible	s (2 or more reeaves (B9) (Noted Concave in Section (B10) iter Table (C2) iter on Aerial Implication (D2)	IW coast Surface (
Depth (inches): _emarks: DROLOGY etland Hydrology imary Indicators (a Surface Water (a High Water Tabl Saturation (A3) Water Marks (B1 Sediment Deposits (B	Indicators: iny one indicators (A2) iits (B2) 3)	il bi	ient) Water-Staine Salt Crust (B Aquatic Inver Hydrogen St Oxidized Rhi Presence of	ed Leaves (111) rtebrates (E ulfide Odor zospheres Reduced Ir	(B9) (exce 313) (C1) along Livi on (C4)	ept NW coa	Secondar Secondar Water Spars Dry-S Satura C3) Georr Shallo	y Indicators -Stained Lely Vegeta age Patters eason Water ation Visible orphic Pos	s (2 or more reeaves (B9) (Noted Concave ins (B10) iter Table (C2) e on Aerial Imstition (D2) I (D3)	IW coast Surface (
Depth (inches): _emarks: DEPTH	Indicators: iny one indica A1) e (A2) iits (B2) 3) st (B4)	il bi	ient) Water-Staine Salt Crust (B Aquatic Invei Hydrogen St Oxidized Rhi Presence of Recent Iron I	ed Leaves (111) rtebrates (E ilfide Odor zospheres Reduced Ir Reduction i	(B9) (exce 313) (C1) along Livi on (C4) n Plowed	ept NW coa	Secondar Secondar Water Spars Dry-S Satura Satura Shallo Frost-	y Indicators -Stained L ely Vegeta age Patters eason Was ation Visible orphic Pos w Aquitaro Heave Hui	s (2 or more reeaves (B9) (Noted Concave ens (B10) ter Table (C2) e on Aerial Instition (D2) if (D3) mmocks (D4)	IW coast Surface (
Depth (inches): _emarks: DROLOGY Compary Indicators (a Surface Water (a High Water Table) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Algal Mat or Cruel Iron Deposits (B3)	Indicators: Iny one indicators (A2) Inits (B2) Inits (B4) Inits (B4)	il bi	ient) Water-Staine Salt Crust (B Aquatic Invei Hydrogen St Oxidized Rhi Presence of Recent Iron I	ed Leaves (111) rtebrates (E ilfide Odor zospheres Reduced Ir Reduction i tressed Pla	(B9) (exce 313) (C1) along Livi on (C4) n Plowed nts (D1) (l	ept NW coa	Secondar Secondar Water Spars Drain Dry-S Satur Shallo Frost- FAC-I	y Indicatore -Stained Lely Vegeta age Pattern eason War ation Visible rorphic Pose w Aquitare Heave Hui	s (2 or more reeaves (B9) (Noted Concave in Section (D2) if (D3) in mocks (D4) ist (D5)	IW coast Surface (nagery (C
Depth (inches): _emarks: DEPTH	Indicators: Iny one indicators: (A2) (B2) (B4) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	tor is suffic	ient) Water-Staine Salt Crust (B Aquatic Invei Hydrogen St Oxidized Rhi Presence of Recent Iron I Stunted or St Other (Explai	ed Leaves (111) rtebrates (E ilfide Odor zospheres Reduced Ir Reduction i tressed Pla	(B9) (exce 313) (C1) along Livi on (C4) n Plowed nts (D1) (l	ept NW coa	Secondar Secondar Water Spars Drain Dry-S Satur Shallo Frost- FAC-I	y Indicatore -Stained Lely Vegeta age Pattern eason War ation Visible rorphic Pose w Aquitare Heave Hui	s (2 or more reeaves (B9) (Noted Concave ens (B10) ter Table (C2) e on Aerial Instition (D2) if (D3) mmocks (D4)	IW coast Surface (nagery (C
Depth (inches): _emarks: DROLOGY etland Hydrology imary Indicators (a Surface Water (A High Water Tabl Saturation (A3) Water Marks (B1 Sediment Deposits (B1 Algal Mat or Crul Iron Deposits (B2 Surface Soil Cral Inundation Visible	Indicators: Indicators: Iny one indicators: Indicators: International indicators: Indicato	tor is suffic	ient) Water-Staine Salt Crust (B Aquatic Invei Hydrogen St Oxidized Rhi Presence of Recent Iron I Stunted or St Other (Explai	ed Leaves (111) rtebrates (E ilfide Odor zospheres Reduced Ir Reduction i tressed Pla	(B9) (exce 313) (C1) along Livi on (C4) n Plowed nts (D1) (l	ept NW coa	Secondar Secondar Water Spars Drain Dry-S Satur Shallo Frost- FAC-I	y Indicatore -Stained Lely Vegeta age Pattern eason War ation Visible rorphic Pose w Aquitare Heave Hui	s (2 or more reeaves (B9) (Noted Concave in Section (D2) if (D3) in mocks (D4) ist (D5)	IW coast Surface (nagery (Cs
Depth (inches): _emarks: DROLOGY etland Hydrology imary Indicators (a Surface Water (a High Water Tabl) Saturation (A3) Water Marks (B1 Sediment Deposits (B Algal Mat or Cru Iron Deposits (B Surface Soil Cra Inundation Visible	Indicators: Indicators: Iny one indicators (A2) Indicators: Iny one indicators (B2) Indicators: Iny one indicators (B2) Indicators: Iny one indicators (B2) Indicators: Indica	tor is suffic	ient) Water-Staine Salt Crust (B Aquatic Invertigation Hydrogen Stain Oxidized Rhit Presence of Recent Iron I Stunted or Stained Other (Explain	ed Leaves (111) rtebrates (E ulfide Odor zospheres Reduced Ir Reduction i tressed Pla in in Remai	(B9) (exce 313) (C1) along Livi on (C4) n Plowed nts (D1) (I	ept NW coa ing Roots (C Soils (C6) LRR A)	Secondar Secondar Water Spars Drain Dry-S Satur Shallo Frost- FAC-I	y Indicatore -Stained Lely Vegeta age Pattern eason War ation Visible rorphic Pose w Aquitare Heave Hui	s (2 or more reeaves (B9) (Noted Concave in Section (D2) if (D3) in mocks (D4) ist (D5)	IW coast Surface (nagery (Cs
Depth (inches): _emarks:	Indicators: Invertical Indicators: Invertical Indicators: Invoice indicators: Invoice indicators: Invoice indicators: Invertical	tor is suffic	ient) Water-Staine Salt Crust (B Aquatic Invertigation of the control of the con	ed Leaves (111) rtebrates (E Ilfide Odor zospheres Reduced Ir Reduction in tressed Pla in in Remai	(B9) (exce 313) (C1) along Livi on (C4) n Plowed nts (D1) (I	ing Roots (C Soils (C6) LRR A)	Secondar Secondar Water Spars Drain Dry-S Satur Shallo Frost- FAC-I	y Indicatore -Stained Lely Vegeta age Pattern eason War ation Visible rorphic Pose w Aquitare Heave Hui	s (2 or more reeaves (B9) (Noted Concave in Section (D2) if (D3) in mocks (D4) ist (D5)	IW coast Surface (nagery (Cs
Depth (inches): _ emarks: DROLOGY etland Hydrology etland Hydrology etland Hydrology etland Hydrology high Water Table Saturation (A3) Water Marks (B1 Sediment Deposits (B2 Algal Mat or Cru. Iron Deposits (B3 Surface Soil Cra. Inundation Visible etla Observations: irace Water Presentater Table Presentater that I water that I water	Indicators: Iny one indica A1) e (A2) iits (B2) 3) st (B4) b) cks (B6) e on Aerial Im nt? Yes	tor is suffice	ient) Water-Staine Salt Crust (B Aquatic Inver Hydrogen St Oxidized Rhi Presence of Recent Iron I Stunted or St Other (Explaine) Depth (inc	ed Leaves (111) rtebrates (E ulfide Odor zospheres Reduced Ir Reduction in tressed Pla in in Reman	(B9) (exce 313) (C1) along Livi on (C4) n Plowed nts (D1) (I	ept NW coaling Roots (CSoils (C6)	Secondar Secondar Water Spars Dry-S Satur Satur Shallo Frost FAC-I Raise	y Indicators y Indicators -Stained L ely Vegeta age Patters eason Was ation Visibl orphic Pos w Aquitaro Heave Hus Neutral Tes d Ant Mour	s (2 or more reeaves (B9) (Noted Concave ns (B10) ter Table (C2) te on Aerial Implication (D2) (D3) mmocks (D4) ter (D5) ands (D6) (LRF	IW coast Surface (nagery (Cs
Depth (inches): _emarks: DEPTH (inches): _emar	Indicators: Invertical Indicators: Invertical Indicators: Invoice indicators: Invoice indicators: Invoice indicators: Invertical Inve	tor is suffice	ient) Water-Staine Salt Crust (B Aquatic Invertigation Hydrogen Staine Oxidized Rhit Presence of Recent Iron I Stunted or Stained or Stained Other (Explained) Depth (incomplete) Depth (incomplete)	ed Leaves (111) rtebrates (E ulfide Odor zospheres Reduced Ir Reduction in tressed Pla in in Reman	(B9) (exce 313) (C1) along Livi on (C4) n Plowed nts (D1) (I	ing Roots (C Soils (C6) LRR A)	Secondar Secondar Water Spars Drain Dry-S Satur Shallo Frost- Raise	y Indicators y Indicators -Stained L ely Vegeta age Patters eason Was ation Visibl orphic Pos w Aquitaro Heave Hus Neutral Tes d Ant Mour	s (2 or more reeaves (B9) (Noted Concave ns (B10) ter Table (C2) te on Aerial Implication (D2) (D3) mmocks (D4) ter (D5) ands (D6) (LRF	IW coast Surface (nagery (C
Depth (inches): _emarks: DEPTH (inches): _emar	Indicators: Invertical Indicators: Invertical Indicators: Invoice indicators: Invoice indicators: Invoice indicators: Invertical Inve	tor is suffice	ient) Water-Staine Salt Crust (B Aquatic Inver Hydrogen St Oxidized Rhi Presence of Recent Iron I Stunted or St Other (Explaine) Depth (inc	ed Leaves (111) rtebrates (E ulfide Odor zospheres Reduced Ir Reduction in tressed Pla in in Reman	(B9) (exce 313) (C1) along Livi on (C4) n Plowed nts (D1) (I	ing Roots (C Soils (C6) LRR A)	Secondar Secondar Water Spars Drain Dry-S Satur Shallo Frost- Raise	y Indicators y Indicators -Stained L ely Vegeta age Patters eason Was ation Visibl orphic Pos w Aquitaro Heave Hus Neutral Tes d Ant Mour	s (2 or more reeaves (B9) (Noted Concave ns (B10) ter Table (C2) te on Aerial Implication (D2) (D3) mmocks (D4) ter (D5) ands (D6) (LRF	IW coast Surface (nagery (C

WEILAND DETERMINATION DATA FORM					
Project/Site: Mathy 100 d	City/County:	Fuseka/Hx	Nbo of Sampling	Date: 9/9/	08_
Applicant/Owner: KCAA / Quella Coff	1 Course	State:	A Sampling	Point: UPI-	3
Investigator(s):	Section, Tow	nship, Range:	·		
Landform (hillslope, terrace, etc.): +evvace	Local relief (concave, convex, none)	concave	Slope (%): <u>&</u>	2_
Subregion (LRR): Lat:					
Soil Map Unit Name:		N	IWI classification:		
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes	(If no, e	explain in Remarks.)		
Are Vegetation, Soil, or Hydrology significa	antly disturbed? 🖍	✓ Are "Normal Circur	mstances" present? Y	res No _	
Are Vegetation, Soil, or Hydrology naturally	y problematic? 🏌		any answers in Rema	,	
SUMMARY OF FINDINGS – Attach site map show	ring sampling				etc.
Hydrophytic Vegetation Present? Yes No					
Hydric Soil Present? Yes No		Sampled Area a Wetland?	Van Na	X	
Wetland Hydrology Present? Yes No	Wittin	a vvetiand:	Yes No _		
Remarks:					
					_
VEGETATION				_	
Absol	lute Dominant I	ndicator Dominance	Test worksheet:		
1 = -	over Species?	Status	Dominant Species	· · · · · · · · · · · · · · · · · · ·	
1			BL, FACW, or FAC:	(/	A)
2		Total Numbe	er of Dominant	\circ	
3		Species Acre	oss All Strata:	(B)
4 Total Cover: Sapling/Shrub Stratum		Percent of D That Are OB	oominant Species BL, FACW, or FAC: _	ち0 (A/B)
1		Prevalence	Index worksheet:	w	
2			_	Multiply by:	
3			s x1:		
4		FACW speci	ies x 2 :	=	
5		FAC species			
Total Cover: Herb Stratum			es x4=		
	OYF	UPL species			
2. Hypochaeris rodicita 10		NL Column rota	als: (A)		(B)
3.	L		ence Index = B/A = _		
4			c Vegetation Indicato	rs:	
5			nce Test is >50%		
6			nce Index is ≤3.0 ¹		
7			logical Adaptations ¹ (P in Remarks or on a se _l		g
8Total Cover:	<u>r — </u>	Wetland	,	'	
Woody Vine Stratum	<u>V</u>		natic Hydrophytic Vege		
1			f hydric soil and wetlar	nd hydrology mus	st
2		be present.			
Total Cover:		Hydrophytic Vegetation	;	1	
% Bare Ground in Herb Stratum		Present?	Yes	No X	
Remarks:				v	
		•			

soil Martins	ilovan	9/9/08		ĺ	LW+K	Sampling F	Point: UD 13
Profile Description: (De				or confirm	the absence of	indicators.)	
Depth M (inches) Color (mo	atrix pist) %	Color (moist)	x Features				
6 6		Coloi (moist)	%Type ¹ _	Loc²	<u>Texture</u>	Rema	rks
<u> </u>	2 7		- = = = = = = = = = = = = = = = = = = =		SL	soil col	cr mixor
8-15 10 YR	3/4 <u>100</u> 9	2 —			SL	when,	dru
							0
							
							· · · · · · · · · · · · · · · · · · ·
		·	·		<u> </u>		
	<u> </u>						
Type: C=Concentration, I	D=Depletion, RM=	Reduced Matrix.	² Location: PL=Por	e Lining, RO	C=Root Channel.	M=Matrix	<u> </u>
Hydric Soil Indicators: (A	Applicable to all I	LRRs, unless other	wise noted.)		Indicators	or Problematic H	lydric Soils ³ :
Histosol (A1)		Sandy Redox (•		2 cm M		•
Histic Epipedon (A2)		Stripped Matrix				rent Material (TF2)
Black Histic (A3)Hydrogen Sulfide (A4)	, -	Loamy Mucky N	lineral (F1) (except	MLRA 1)	Other (Explain in Remark	s)
Prydrogen Suilide (A4) Depleted Below Dark :	Surface (A11)	Loamy Gleyed I Depleted Matrix					
Thick Dark Surface (A		Bepleted Matrix Redox Dark Sui					
Sandy Mucky Mineral		Depleted Dark S			3Indicators	e budunula et a	
Sandy Gleyed Matrix (S4)	Redox Depress			wetland	of hydrophytic vego nydrology must be	etation and
Restrictive Layer (if prese	ent):					lydrology must be	present.
Type:							
Depth (inches):					Hydric Soil Pre	sent? Yes	No 🗸
Remarks: Location of F							
VDDOL OOV			· · · · · · · · · · · · · · · · · · ·				
YDROLOGY			·				
Vetland Hydrology Indica					Secondary I	ndicators (2 or mo	re required)
Primary Indicators (any one	indicator is suffic				Water-S	tained Leaves (B9) (NW coast)
_ Surface Water (A1)			d Leaves (B9) (exce	pt NW coa	st) Sparsel	Vegetated Conc	ave Surface (B8)
High Water Table (A2) Saturation (A3)		Salt Crust (B1	•		Drainag	Patterns (B10)	
Water Marks (B1)		Aquatic Invert				son Water Table (
_ Sediment Deposits (B2		Hydrogen Sul			Saturati	on Visible on Aeria	ıl Imagery (C9)
_ Drift Deposits (B3)	,		ospheres along Livi	ng Roots (C		phic Position (D2)	*
Algal Mat or Crust (B4)			Reduced Iron (C4)	0 11 (00)		Aquitard (D3)	
_ Iron Deposits (B5)			eduction in Plowed essed Plants (D1) (l			ave Hummocks (I	D4)
_ Surface Soil Cracks (Bo	5)	Other (Explain		LKK A)		utral Test (D5)	
_ Inundation Visible on A	•		in Remarks)	•	Raised A	Ant Mounds (D6) (LRR A)
eld Observations:	3., (2.)						
urface Water Present?	Yes N	Depth (inc	hes):				
/ater Table Present?			hes):	_			
aturation Present?		,	hes):	- 1			
ncludes capillary fringe)				-	d Hydrology Pro	esent? Yes	No_ <u></u>
escribe Recorded Data (st	ream gauge, mon	itoring well, aerial pl	notos, previous insp	ections), if a	available:		
emarks:							
omana.							
•	•						
							•

WETLAND DETERMINATION DATA FOI	RM – Wes	tern Mountai	ins, Valleys and Coast Region (DRAFT)
Project/Site: Martin Stough			
Applicant/Owner:		Journal John	State: A Sampling Point: WEST
Investigator(s): LW KS			ange:
Landform (hillslope, terrace, etc.): Storplain	Loca	l relief (concave	convex papa): liaca -// myex
Subregion (LRR):	at-	richer (concave,	
<u> </u>			Long: Datum: NWI classification:
Are climatic / hydrologic conditions on the site typical for this tim	ne of year? V	os V No	INVVI classification:
Are Vegetation, Soil, or Hydrology signif	ficantly dietur		
Are Vegetation, Soil, or Hydrology natur			"Normal Circumstances" present? Yes No
	• •	· · · · ·	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map sho	wing sam	pling point l	locations, transects, important features, etc
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Wetland Mydrology Present? Wetland Mydrology Present? Wetland Mydrology Present? Wetland Mydrology Present? Wetland Mydrology Present?	\times		nd? Yes NoX
/EGETATION			
Tree Stratum (Use scientific names.) % 1	Cover Spec	inant Indicator cies? Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2			Total Number of Dominant Species Across All Strata: (B)
Sapling/Shrub Stratum Total Cover:		_	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
1			Prevalence Index worksheet:
23			Total % Cover of: Multiply by:
3			OBL species x1 =
5			FACW species x 2 = FAC species x 3 =
Total Cover:			FACU species x 4 =
Herb Stratum		/ 15x av -	UPL species x 5 =
1. Lolium perenne	10 – 1	FACI	Column Totals: (A) (B)
3. Poa armua	2	111	
4 tolcus lamatus	2 - (FACW-	Prevalence Index = B/A =
5. Hypochaeris radiata	ボー		Dominance Test is >50%
6		— -	Prevalence Index is ≤3.0¹
7			Morphological Adaptations ¹ (Provide supporting
8			data in Remarks or on a separate sheet)
Woody Vine Stratum Total Cover: $\overline{f C}$	10		Wetland Bryophytes ¹
1		<i>:</i>	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must
2.			be present.
Total Cover: % Bare Ground in Herb Stratum			Hydrophytic Vegetation
Remarks:			Present? Yes No No
			, ·

Profile Description: (Describe to the depth needed to document the	indicator or confirm the absence of indicators.)
Depth Matrix Redox Feature	•
(inches) Color (moist) % Color (moist) %	
0-15+ 10YR4/z 100%	<u> </u>
Type: C-Consentation D-Depleties DM-D-Issue (* 2)	
ype: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location / dric Soil Indicators: (Applicable to all LRRs, unless otherwise not	
•	· · · · · · · · · · · · · · · · · · ·
_ Histosol (A1) Sandy Redox (S5) _ Histic Epipedon (A2) Stripped Matrix (S6)	2 cm Muck (A10)
Black Histic (A3) Complete Matrix (30) Loamy Mucky Mineral (F	Red Parent Material (TF2)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2	1) (except MLRA 1) Other (Explain in Remarks)
Depleted Below Dark Surface (A11) Depleted Matrix (F3)	- /
_ Thick Dark Surface (A12) Redox Dark Surface (F6)	
Sandy Mucky Mineral (S1) Depleted Dark Surface (F	F7) ³ Indicators of hydrophytic vegetation and
Sandy Gleyed Matrix (S4) Redox Depressions (F8)	wetland hydrology must be present.
estrictive Layer (if present):	
Type:	
Depth (inches):	Hydric Soil Present? Yes No
DROLOGY	
etland Hydrology Indicators:	Secondary Indicators (2 or more required)
etland Hydrology Indicators: imary Indicators (any one indicator is sufficient)	Water-Stained Leaves (B9) (NW coast)
etland Hydrology Indicators: imary Indicators (any one indicator is sufficient) Surface Water (A1) Water-Stained Leaves	Water-Stained Leaves (B9) (NW coast) (B9) (except NW coast) Sparsely Vegetated Concave Surface (B8)
etland Hydrology Indicators: imary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Water-Stained Leaves Salt Crust (B11)	Water-Stained Leaves (B9) (NW coast) (B9) (except NW coast) — Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)
etland Hydrology Indicators: imary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Salt Crust (B11) Aquatic Invertebrates (Water-Stained Leaves (B9) (NW coast) (B9) (except NW coast) — Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2)
Tetland Hydrology Indicators: Timary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Salt Crust (B11) Saturation (A3) Water Marks (B1) Hydrogen Sulfide Odor	Water-Stained Leaves (B9) (NW coast) (B9) (except NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) (B13) Dry-Season Water Table (C2) r (C1) Saturation Visible on Aerial Imagery (C9)
rimary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Welliam Sufficient Water-Stained Leaves Salt Crust (B11) Aquatic Invertebrates (Hydrogen Sulfide Odor	Water-Stained Leaves (B9) (NW coast) (B9) (except NW coast) — Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) (B13) — Dry-Season Water Table (C2) r (C1) — Saturation Visible on Aerial Imagery (C9) s along Living Roots (C3) — Geomorphic Position (D2)
rimary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Water Marks (B1) Presence of Reduced (A2) Water Marks (B3) Presence of Reduced (A3) Water Marks (B4) Presence of Reduced (A4) Water Marks (B4) Presence of Reduced (A4) Water Marks (B4) Water Marks (B4) Presence of Reduced (A4) Water Marks (B4) Presence of Reduced (A4) Water Marks (B4) Presence of Reduced (A4) Water Stained Leaves Salt Crust (B41) Aquatic Invertebrates (A4) Water Marks (B4) Presence of Reduced (A4)	Water-Stained Leaves (B9) (NW coast) (B9) (except NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) (B13) Dry-Season Water Table (C2) r (C1) Saturation Visible on Aerial Imagery (C9) s along Living Roots (C3) Geomorphic Position (D2) Iron (C4) Shallow Aquitard (D3)
Tetland Hydrology Indicators: rimary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Salt Crust (B11) Aquatic Invertebrates (Hydrogen Sulfide Odor Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Recent Iron Reduction	Water-Stained Leaves (B9) (NW coast) (B9) (except NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) (B13) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Salong Living Roots (C3) Geomorphic Position (D2) Iron (C4) Shallow Aquitard (D3) In Plowed Soils (C6) Frost-Heave Hummocks (D4)
Tetland Hydrology Indicators: rimary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Salt Crust (B11) Aquatic Invertebrates (Hydrogen Sulfide Odor Water Marks (B1) Hydrogen Sulfide Odor Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Stunted or Stressed Pl	Water-Stained Leaves (B9) (NW coast) (B9) (except NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) (B13) Dry-Season Water Table (C2) r (C1) Saturation Visible on Aerial Imagery (C9) s along Living Roots (C3) Geomorphic Position (D2) Iron (C4) Shallow Aquitard (D3) in Plowed Soils (C6) Frost-Heave Hummocks (D4) lants (D1) (LRR A) FAC-Neutral Test (D5)
rimary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Salt Crust (B11) Saturation (A3) Water Marks (B1) Hydrogen Sulfide Odor Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Water Any Water Marks Hydrogen Sulfide Odor Oxidized Rhizospheres Presence of Reduced I Recent Iron Reduction Stunted or Stressed Pl	Water-Stained Leaves (B9) (NW coast) (B9) (except NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) (B13) Dry-Season Water Table (C2) (C1) Saturation Visible on Aerial Imagery (C9) s along Living Roots (C3) Geomorphic Position (D2) Iron (C4) Shallow Aquitard (D3) in Plowed Soils (C6) Frost-Heave Hummocks (D4) ants (D1) (LRR A) FAC-Neutral Test (D5)
etland Hydrology Indicators: imary Indicators (any one indicator is sufficient) Surface Water (A1)	Water-Stained Leaves (B9) (NW coast) (B9) (except NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) (B13) Dry-Season Water Table (C2) r (C1) Saturation Visible on Aerial Imagery (C9) s along Living Roots (C3) Geomorphic Position (D2) Iron (C4) Shallow Aquitard (D3) in Plowed Soils (C6) Frost-Heave Hummocks (D4) lants (D1) (LRR A) FAC-Neutral Test (D5)
rimary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Salt Crust (B11) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves Salt Crust (B11) Aquatic Invertebrates (Hydrogen Sulfide Odor Oxidized Rhizospheres Presence of Reduced in Recent Iron Reduction Stunted or Stressed Plant of Cracks (B6) Inundation Visible on Aerial Imagery (B7)	Water-Stained Leaves (B9) (NW coast) (B9) (except NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) (B13) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) s along Living Roots (C3) Geomorphic Position (D2) Iron (C4) Shallow Aquitard (D3) in Plowed Soils (C6) Frost-Heave Hummocks (D4) lants (D1) (LRR A) FAC-Neutral Test (D5) arks) Raised Ant Mounds (D6) (LRR A)
rimary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Salt Crust (B11) Aquatic Invertebrates (Hydrogen Sulfide Odor Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water Any Water Any Water Any One indicator is sufficient) Water-Stained Leaves Salt Crust (B11) Aquatic Invertebrates (Hydrogen Sulfide Odor Oxidized Rhizospheres Presence of Reduced In Recent Iron Reduction Stunted or Stressed Pleater (Explain in Remainded Control of the Control of Control o	Water-Stained Leaves (B9) (NW coast) (B9) (except NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) (B13) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) s along Living Roots (C3) Geomorphic Position (D2) Iron (C4) Shallow Aquitard (D3) in Plowed Soils (C6) Frost-Heave Hummocks (D4) lants (D1) (LRR A) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
rimary Indicators (any one indicator is sufficient) Surface Water (A1)	Water-Stained Leaves (B9) (NW coast) (B9) (except NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) r (C1) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Iron (C4) Shallow Aquitard (D3) in Plowed Soils (C6) Errost-Heave Hummocks (D4) Interpretable (C2) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) Raised Ant Mounds (D6) (LRR A)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Field Observations: urface Water Present? Attraction (A3) Aquatic Invertebrates (B1) Presence of Reduced (B2) Recent Iron Reduction Stunted or Stressed Pl Other (Explain in Remainded (B7) Depth (inches): Attraction Present? Yes No Depth (inches): Depth (inches):	Water-Stained Leaves (B9) (NW coast) (B9) (except NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) (B13) Dry-Season Water Table (C2) r (C1) Saturation Visible on Aerial Imagery (C9) s along Living Roots (C3) Geomorphic Position (D2) Iron (C4) Shallow Aquitard (D3) in Plowed Soils (C6) Frost-Heave Hummocks (D4) lants (D1) (LRR A) FAC-Neutral Test (D5) arks) Raised Ant Mounds (D6) (LRR A)
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Vetland Hydrology Indicators: rimary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Salt Crust (B11) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Vetage And Angle Present? Ves No Depth (inches): Vater Table Present? Ves No Depth (inches):	Water-Stained Leaves (B9) (NW coast) (B9) (except NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) (B13) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) s along Living Roots (C3) Geomorphic Position (D2) Iron (C4) Shallow Aquitard (D3) in Plowed Soils (C6) Frost-Heave Hummocks (D4) lants (D1) (LRR A) FAC-Neutral Test (D5) arks) Raised Ant Mounds (D6) (LRR A) Wetland Hydrology Present? Yes No
rimary Indicators (any one indicator is sufficient) Surface Water (A1)	Water-Stained Leaves (B9) (NW coast) (B9) (except NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) (B13) Dry-Season Water Table (C2) r (C1) Saturation Visible on Aerial Imagery (C9) s along Living Roots (C3) Geomorphic Position (D2) Iron (C4) Shallow Aquitard (D3) in Plowed Soils (C6) Frost-Heave Hummocks (D4) lants (D1) (LRR A) FAC-Neutral Test (D5) arks) Raised Ant Mounds (D6) (LRR A) Wetland Hydrology Present? Yes No evious inspections), if available:
Vetland Hydrology Indicators: rimary Indicators (any one indicator is sufficient)	Water-Stained Leaves (B9) (NW coast) (B9) (except NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) (B13) Dry-Season Water Table (C2) r (C1) Saturation Visible on Aerial Imagery (C9) s along Living Roots (C3) Geomorphic Position (D2) Iron (C4) Shallow Aquitard (D3) in Plowed Soils (C6) Frost-Heave Hummocks (D4) lants (D1) (LRR A) FAC-Neutral Test (D5) arks) Raised Ant Mounds (D6) (LRR A) Wetland Hydrology Present? Yes No

WEILAND DETERMINATION DATA FOR	KIVI – VVES	tern Moui	ntains, Valleys and Coast Region (DRAFT)
Project/Site: Martin Slough	City/(County: <u></u>	reka/Humbott Sampling Date: 9/9/08
Applicant/Owner:			State: CA Sampling Point: Wi5-1-
Investigator(s): WILS	Secti	ion, Townshi	n Range
Landform (hillslope, terrace, etc.):) Loca	al relief (conc	cave, convex, none): linear Slope (%):
Subregion (LRR): L			
Soil Map Unit Name:			
Are climatic / hydrologic conditions on the site typical for this tim			
Are Vegetation, Soil, or Hydrology signif			
Are Vegetation, Soil, or Hydrology natur			
SUMMARY OF FINDINGS - Attach site map sho			•
Hydrophytic Vegetation Present? Yes No		Is the Sam	npled Area
Hydric Soil Present? Wetland Hydrology Present? Yes No Yes No	 · .	within a W	Vetland? Yes No No
Remarks:			
<u>.</u>			
VEGETATION			
	solute Don Cover Spe	ninant Indica	110
1	Covei Ope		- Number of Dominant Species
2.			
3			Total Number of Dominant Species Across All Strata: (B)
4			Percent of Dominant Species
Total Cover: Sapling/Shrub Stratum			That Are OBL, FACW, or FAC:
1			Prevalence Index worksheet:
2.			Total % Cover of:Multiply by:
3			OBL species x 1 =
4			FACW species x 2 =
5			FACURACION X 3 =
Total Cover:		(-A	FACU species x 4 = UPL species x 5 =
1. Agrostis Stolonifera =	<u> </u>		
2. Poa annua 2	_()	+ FACN	<u>v</u>
3. Trifolium repens	10	FEC	
4. Ranunculus repens	10	× FAC	Hydrophytic Vegetation Indicators: Dominance Test is >50%
6			Prevalence Index is ≤3.0¹
7			Morphological Adaptations ¹ (Provide supporting
8			data in Remarks or on a separate sheet)
Total Cover:	10_		Wetland Bryophytes ¹
1			Problematic Hydrophytic Vegetation ¹ (Explain) 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:			riesent: 1es / No
•			

OIL MO	artins Slo	uolh	9/9/0	28		LLW+K	Sampling Point: <u>up15</u>
	ription: (Describe	to the dep			ator or conf	irm the absence of	of indicators.)
Depth inches)	Matrix Color (moist)	%	Rec	lox Features	1	_ ,	
			Color (moist)		pe ¹ Loc ²	Texture	Remarks
-15+	104R4/2	70%	7,54R 4/6	_ <u>10% C</u>	<u>* M</u>		
							· ·
							
	·						
			<u> </u>				
							
/pe: C=Co	ncentration, D=Dep	letion. RM=	=Reduced Matrix	² l ocation: Pl =	Pore Lining	RC=Root Channe	I DA-DA-hii
dric Soil Ir	ndicators: (Applic	able to all	LRRs, unless other	erwise noted.)	T OF Litting,		s for Problematic Hydric Soils ³ :
Histosol (Sandy Redox	•			Muck (A10)
	pedon (A2)		Stripped Matri	. ,			Parent Material (TF2)
Black His				Mineral (F1) (ex	cept MLRA		(Explain in Remarks)
	Sulfide (A4)		Loamy Gleyed			0.1101	(Explain in Remarks)
	Below Dark Surface	e (A11)	Depleted Matr	ix (F3) ←			
	k Surface (A12)	•	Redox Dark S		•		
	ıcky Mineral (S1)		Depleted Dark	٠,		³ Indicators	of hydrophytic vegetation and
Sandy Gi	eyed Matrix (S4) ayer (if present):		Redox Depres	sions (F8)		wetland	hydrology must be present.
	ayer (if present):						
Type:							
Depth (inch	nes):						
marks:	Ohromo	\ WI	redox r	vear 31	AGCE	Hydric Soil P	
lcw	Ohromo	\ WI	redox r	var 31	rFCC		
marks: LCW DROLOG	ON romo	\ WI	redox r	vou 31	NFOCE	->hyd	ric soil.
DROLOG	ONTOMO			var 31	rface	->hydl	Indicators (2 or more required)
DROLOG etland Hydr	iY rology Indicators: tors (any one indica		cient)			Secondary Water	Indicators (2 or more required) -Stained Leaves (B9) (NW coast)
DROLOG etland Hydr mary Indica Surface W	iY rology Indicators: tors (any one indicators)		cient) Water-Staine	ed Leaves (B9) (Secondary Water- coast) Sparse	Indicators (2 or more required) -Stained Leaves (B9) (NW coast) ely Vegetated Concave Surface (B8)
DROLOG etland Hydr mary Indica Surface W High Wate	iY rology Indicators: tors (any one indicators (A1) er Table (A2)		cient) Water-Staind Salt Crust (E	ed Leaves (B9) (Secondary Water- coast) Sparse Draina	Indicators (2 or more required) -Stained Leaves (B9) (NW coast) ely Vegetated Concave Surface (B8) age Patterns (B10)
DROLOG etland Hydr mary Indica Surface W High Wate Saturation	rology Indicators: tors (any one indicators (A1) er Table (A2)		cient) Water-Staine Salt Crust (E Aquatic Inve	ed Leaves (B9) (6 311) rtebrates (B13)		Secondary Water- coast) Sparse Draina Dry-Se	Indicators (2 or more required) -Stained Leaves (B9) (NW coast) ely Vegetated Concave Surface (B8) age Patterns (B10) eason Water Table (C2)
DROLOG etland Hydr mary Indica Surface W High Wate Saturation Water Mal	rology Indicators: tors (any one indicator (A1) er Table (A2) (A3) rks (B1)		cient) Water-Staine Salt Crust (E Aquatic Inve Hydrogen Se	ed Leaves (B9) (311) rtebrates (B13) ulfide Odor (C1)	except NW (Secondary — Water- coast) — Sparse — Draina — Dry-Se — Satura	Indicators (2 or more required) -Stained Leaves (B9) (NW coast) ely Vegetated Concave Surface (B8) age Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9)
DROLOG etland Hydr mary Indica Surface W High Wate Saturation Water Man Sediment	ology Indicators: tors (any one indicators (A1) er Table (A2) (A3) rks (B1) Deposits (B2)		cient) Water-Staine Salt Crust (E Aquatic Inve Hydrogen Se	ed Leaves (B9) (311) rtebrates (B13) ulfide Odor (C1) izospheres along	except NW o	Secondary Water- coast) Sparse Draina Dry-Se Satura s (C3) Geom	Indicators (2 or more required) -Stained Leaves (B9) (NW coast) ely Vegetated Concave Surface (B8) ge Patterns (B10) eason Water Table (C2) tition Visible on Aerial Imagery (C9) orphic Position (D2)
DROLOG Surface W High Water Saturation Water Man Sediment Drift Depo	Fology Indicators: tors (any one indicators) tor Table (A2) (A3) rks (B1) Deposits (B2) sits (B3)		cient) Water-Staine Salt Crust (E Aquatic Inve Hydrogen Se Oxidized Rh Presence of	ed Leaves (B9) (B11) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C	except NW of Living Root	Secondary Water- coast) Sparse Draina Dry-Se Satura s (C3) Geom	Indicators (2 or more required) -Stained Leaves (B9) (NW coast) ely Vegetated Concave Surface (B8) age Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3)
DROLOG Surface W High Water Saturation Water Man Sediment Drift Depo	iy rology Indicators: tors (any one indicators (A1) er Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4)		cient) Water-Staine Salt Crust (E Aquatic Inve Hydrogen So Oxidized Rh Presence of Recent Iron	ed Leaves (B9) (311) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plo	Except NW of Living Root 4) Wed Soils (C	Secondary Water- coast) Sparse Draina Dry-Se Satura s (C3) Geom Shallo	Indicators (2 or more required) -Stained Leaves (B9) (NW coast) ely Vegetated Concave Surface (B8) age Patterns (B10) eason Water Table (C2) ation Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) Heave Hummocks (D4)
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DROLOG Stland Hydr Mary Indica Surface W High Water Saturation Water Mary Sediment Drift Depo Algal Mat Iron Depois	rology Indicators: tors (any one indicators: tar (A1) or Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6)	ator is suffic	water-Staine Water-Staine Salt Crust (E Aquatic Inve Hydrogen So Oxidized Rh Presence of Recent Iron Stunted or S Other (Expla	ed Leaves (B9) (311) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plo	Except NW of Living Root 4) Wed Soils (C	Secondary Water- Coast) Sparse Draina Dry-Se Satura s (C3) Geom Shallo Frost-l	Indicators (2 or more required) -Stained Leaves (B9) (NW coast) ely Vegetated Concave Surface (B8) age Patterns (B10) eason Water Table (C2) ation Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) Heave Hummocks (D4)
DROLOG Stland Hydr Mary Indica Surface W High Wate Saturation Water Mal Sediment Drift Depo Algal Mat Iron Depoi Surface Si Inundation	rology Indicators: tors (any one indicators (A1) er Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) I Visible on Aerial In	ator is suffic	water-Staine Water-Staine Salt Crust (E Aquatic Inve Hydrogen So Oxidized Rh Presence of Recent Iron Stunted or S Other (Expla	ed Leaves (B9) (6 311) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plot tressed Plants (E	Except NW of Living Root 4) Wed Soils (C	Secondary Water- Coast) Sparse Draina Dry-Se Satura s (C3) Geom Shallo Frost-l	Indicators (2 or more required) -Stained Leaves (B9) (NW coast) ely Vegetated Concave Surface (B8) age Patterns (B10) eason Water Table (C2) tition Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) Heave Hummocks (D4) leutral Test (D5)
DROLOG etland Hydr mary Indica Surface W High Water Saturation Water Man Sediment Drift Depo Algal Mat Iron Depoi Surface Sediment Inundation Id Observa	rology Indicators: tors (any one indicators (A1) er Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) I Visible on Aerial Indicons:	ator is suffic	cient) Water-Staine Salt Crust (E Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain	ed Leaves (B9) (311) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plot tressed Plants (D in in Remarks)	Except NW of Living Root 4) Wed Soils (C	Secondary Water- Coast) Sparse Draina Dry-Se Satura s (C3) Geom Shallo Frost-l	Indicators (2 or more required) -Stained Leaves (B9) (NW coast) ely Vegetated Concave Surface (B8) age Patterns (B10) eason Water Table (C2) tition Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) Heave Hummocks (D4) leutral Test (D5)
DROLOG etland Hydre mary Indica Surface Water Mar Sediment Drift Depo Algal Mat Iron Depoi Surface So Inundation Id Observation	rology Indicators: tors (any one indicators: /ater (A1) er Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) Visible on Aerial Indicators: Present? Ye	nagery (B7	Cient) Water-Staine Salt Crust (E Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain	ed Leaves (B9) (6311) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plot tressed Plants (I in in Remarks)	Except NW of Living Root 4) Wed Soils (C	Secondary Water- Coast) Sparse Draina Dry-Se Satura s (C3) Geom Shallo Frost-l	Indicators (2 or more required) -Stained Leaves (B9) (NW coast) ely Vegetated Concave Surface (B8) age Patterns (B10) eason Water Table (C2) tition Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) Heave Hummocks (D4) leutral Test (D5)
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DROLOG etland Hydre imary Indica Surface W High Wate Saturation Water Mai Sediment Drift Depo Algal Mat Iron Depoi Surface Se Inundation eld Observator	rology Indicators: tors (any one indicators: /ater (A1) er Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) Visible on Aerial Indicators: Present? Yesent? Yesent? Yesent? Yesent?	nagery (B7	Cient) Water-Staine Salt Crust (E Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain	ed Leaves (B9) (6311) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plot tressed Plants (I in in Remarks) ches):	Except NW (Living Root 4) wed Soils (C 01) (LRR A)	Secondary Water- coast) Sparse Draina Dry-Se Satura S (C3) Geom Shallo FAC-N Raised	Indicators (2 or more required) Stained Leaves (B9) (NW coast) By Vegetated Concave Surface (B8) By Patterns (B10) By Patterns (B10) By Patterns (B2) By Patterns (B2) By Patterns (D2) By Aquitard (D3) By Aquitard (D3) By Aquitard (D3) By Aquitard (D5) By Ant Mounds (D6) (LRR A) Present? Yes No
DROLOG Etland Hydre mary Indica Surface Water Mail Sediment Drift Depo Algal Mater Iron Depois Surface Sediment Iron Depois Surface Sediment Iron Depois Surface Sediment Iron Depois Surface Sediment Iter Table Personal Sediment President President Sediment President President Sediment Sedi	rology Indicators: tors (any one indicators (a	nagery (B7	cient) Water-Staine Salt Crust (E Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain) Depth (in Depth (in Depth (in Depth (in Staine))	ed Leaves (B9) (and the state of the state o	Except NW (Living Root 4) Wed Soils (C 01) (LRR A)	Secondary Water- Coast) Sparse Draina Dry-Se Satura S (C3) Geom Shallo FAC-N Raised	Indicators (2 or more required) -Stained Leaves (B9) (NW coast) ely Vegetated Concave Surface (B8) age Patterns (B10) eason Water Table (C2) tition Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) -leave Hummocks (D4) leutral Test (D5) d Ant Mounds (D6) (LRR A)
DROLOG etland Hydr mary Indica Surface W High Water Mar Sediment Drift Depo Algal Mat Iron Depo: Surface Selinundation Id Observater Table Proceedings Capiller Uration Presidudes capiller	rology Indicators: tors (any one indicators: /ater (A1) er Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) Visible on Aerial Indicators: Present? Yesent? Yesent? Yesent? Yesent?	nagery (B7	cient) Water-Staine Salt Crust (E Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain) Depth (in Depth (in Depth (in Depth (in Staine))	ed Leaves (B9) (and the state of the state o	Except NW (Living Root 4) Wed Soils (C 01) (LRR A)	Secondary Water- Coast) Sparse Draina Dry-Se Satura S (C3) Geom Shallo FAC-N Raised	Indicators (2 or more required) Stained Leaves (B9) (NW coast) By Vegetated Concave Surface (B8) By Patterns (B10) By Patterns (B10) By Patterns (B2) By Patterns (B2) By Patterns (D2) By Aquitard (D3) By Aquitard (D3) By Aquitard (D3) By Aquitard (D5) By Ant Mounds (D6) (LRR A) Present? Yes No
DROLOG etland Hydr mary Indica Surface W High Water Man Sediment Drift Depo Algal Mat Iron Depoi Surface So Inundation Id Observat face Water ter Table Pouration Presidudes capill scribe Reco	rology Indicators: tors (any one indicators (any one indicators (any one indicators (atter (A1)) or Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) of Visible on Aerial Indicators: Present? Present? Yesent? Yesent? Yesent? Yesent? Yesent? Yesent? Yesent? Yesent?	nagery (B7	cient) Water-Staine Salt Crust (E Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain) Depth (in	ed Leaves (B9) (and the states (B13) and the states	Living Root 4) wed Soils (C 01) (LRR A) Wet inspections)	Secondary Water- Coast) Sparse Draina Dry-Se Satura s (C3) Geom Shallo FAC-N Raised	Indicators (2 or more required) -Stained Leaves (B9) (NW coast) ely Vegetated Concave Surface (B8) ge Patterns (B10) eason Water Table (C2) tition Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) Heave Hummocks (D4) leutral Test (D5) d Ant Mounds (D6) (LRR A) Present? Yes No
DROLOG Etland Hydre mary Indica Surface Water Mail Sediment Drift Depo Algal Mater Iron Depois Surface Sediment Iron Depois Surface Sediment Iron Depois Surface Sediment Iron Depois Surface Sediment Iter Table Personal Sediment President President Sediment President President Sediment Sedi	rology Indicators: tors (any one indicators (any one indicators (any one indicators (atter (A1)) or Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) of Visible on Aerial Indicators: Present? Present? Yesent? Yesent? Yesent? Yesent? Yesent? Yesent? Yesent? Yesent?	nagery (B7	cient) Water-Staine Salt Crust (E Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain) Depth (in	ed Leaves (B9) (and the states (B13) and the states	Living Root 4) wed Soils (C 01) (LRR A) Wet inspections)	Secondary Water- Coast) Sparse Draina Dry-Se Satura s (C3) Geom Shallo FAC-N Raised	Indicators (2 or more required) Stained Leaves (B9) (NW coast) By Vegetated Concave Surface (B8) By Patterns (B10) By Patterns (B10) By Patterns (B2) By Patterns (D2) By Aquitard (D3) By Heave Hummocks (D4) By Heave Hummocks (D4) By Ant Mounds (D6) (LRR A) Present? Yes No

WEILAND DETERMINATION DATA				(1)		Γ)
Project/Site: Martin Somum	(City/Cou	ntv: EWV	ka/fumboldt	_ Sampling Date: 9/9	Ins
Applicant/Owner: RCAA 0				/ - 1	Sampling Point: UP	
Investigator(s): LN KS		Section,	Township, R	ange:		<u> </u>
Landform (hillslope, terrace, etc.):				convex, none):	Mr Slope (%	1. 2
	-			Long:		
Soil Map Unit Name:				NWI classific		
Are climatic / hydrologic conditions on the site typical for this						
Are Vegetation, Soil, or Hydrologys				"Normal Circumstances"	_	No
Are Vegetation, Soil, or Hydrologyn			_	eeded, explain any answe	, ,	· · · · · · · · · · · · · · · · · · ·
SUMMARY OF FINDINGS – Attach site map						
Attach site map		Sampi	mg bomt	iocations, transects	i, important feature	es, etc
	o	İs	the Sample	d Area		
Hydric Soil Present? Yes No		- 1	ithin a Wetla		No X	
Wetland Hydrology Present? Yes No Remarks:)					
· Contained						
VEGETATION						
Tree Stratum (Use scientific names.)			int Indicator	Dominance Test work	sheet:	·
•			s? Status	Number of Dominant Sp		
1				That Are OBL, FACW, o	or FAC:	_ (A)
3				Total Number of Domin Species Across All Stra	ant S	(D)
4						_ (B)
Total Cover: Sapling/Shrub Stratum				Percent of Dominant Sp That Are OBL, FACW, o		(A/B)
1				Prevalence Index worl	ksheet:	
2			_	Total % Cover of:	Multiply by:	_
3					x 1 =	
4					x 2 =	
Total Cover:					x 3 = x 4 =	
Horh Stratum		. ,	سيد	UPL species	A Committee of the Comm	_
1. Hypochula is radiata	15.	__	<u> _ W1_</u>	Column Totals:		(B)
2. testica avandinação	<u> 33</u> -		- FAC-	;		(5)
3. Intus corniculatis 4. Agrostis Capilaris	 -	77	- FAC	Prevalence Index		
5.	30		NI	Hydrophytic Vegetatio Dominance Test is		
6. Lolium Perenne	10	7	FAC	Prevalence Index is		
7.			- 41/1		s =3.0 otations ¹ (Provide suppor	rtina
8			_	data in Remarks	or on a separate sheet)	ung
Total Cover:	95			Wetland Bryophytes		
Woody Vine Stratum					phytic Vegetation ¹ (Expla	
1				'Indicators of hydric soil be present.	and wetland hydrology r	nust
Z	<u> </u>	_				
Total Cover:	75		i	Hydrophytic Vegetation	\checkmark	
% Bare Ground in Herb Stratum				Present? Yes	No	
Remarks:						

soil Martin	68kunk	9/9/08	LLW+ KS Sampling Point: LID 16
Profile Description: (D	escribe to the d	epth needed to document the indicator of	or confirm the absence of indicators.)
Depth Color (n	Matrix noist) %	Redox Features Color (moist) % Type¹	
\ \			Loc ² Texture Remarks
0- P 10 1K	24/2 100%		LS - barely holds ball
			J
	·		
¹ Type: C=Concentration,	D=Depletion RM	M=Reduced Matrix 2 accition: DI =Doro	Lining DO. D. 7 O.
Hydric Soil Indicators:	(Applicable to a	II LRRs, unless otherwise noted.)	Lining, RC=Root Channel, M=Matrix.
Histosol (A1)		Sandy Redox (S5)	Indicators for Problematic Hydric Soils ³ :
Histic Epipedon (A2)		Stripped Matrix (S6)	2 cm Muck (A10)
Black Histic (A3)	•	Loamy Mucky Mineral (F1) (except I	Red Parent Material (TF2)
Hydrogen Sulfide (A4		Loamy Gleyed Matrix (F2)	MLRA 1) Other (Explain in Remarks)
Depleted Below Dark		Depleted Matrix (F3)	
Thick Dark Surface (/		Redox Dark Surface (F6)	
Sandy Mucky Minera		Depleted Dark Surface (F7)	³ Indicators of hydrophytic vegetation and
Sandy Gleyed Matrix		Redox Depressions (F8)	wetland hydrology must be present.
Restrictive Layer (if pres	sent):		
Type:		·	
Depth (inches):			Hydric Soil Present? Yes No
VDDOL OOY			
YDROLOGY			
Wetland Hydrology Indic			Secondary Indicators (2 or more required)
Primary Indicators (any on	e indicator is suf		Water-Stained Leaves (B9) (NW coast)
Surface Water (A1)		Water-Stained Leaves (B9) (excep	ot NW coast) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2))	Salt Crust (B11)	Drainage Patterns (B10)
Saturation (A3)		Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)
Water Marks (B1)		Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)
Sediment Deposits (B	2)	Oxidized Rhizospheres along Living	g Roots (C3) Geomorphic Position (D2)
Drift Deposits (B3)		Presence of Reduced Iron (C4)	Shallow Aquitard (D3)
Algal Mat or Crust (B4)	Recent Iron Reduction in Plowed S	oils (C6) Frost-Heave Hummocks (D4)
Iron Deposits (B5)		Stunted or Stressed Plants (D1) (LI	RR A) FAC-Neutral Test (D5)
Surface Soil Cracks (E	•	Other (Explain in Remarks)	Raised Ant Mounds (D6) (LRR A)
Inundation Visible on A	Aerial Imagery (B	7)	,
ield Observations:			
Surface Water Present?		No Depth (inches):	
Vater Table Present?	Yes	No Depth (inches):	
Saturation Present?	Yes		Wetland Hydrology Present? Yes No
includes capillary fringe) Describe Recorded Data (s	stream gauge mo	onitoring well, aerial photos, previous inspe	
the state of the s	sam gauge, 1110	princing well, aerial priotos, previous inspe	ctions), if available:
Remarks:			
	-		
			·

WETLAND DETERMINATION DATA	A FORM -	Western	Mountai	ins, Valleys and Coast Region (DRAFT)
				,
Applicant/Owner DCMA/Server for	Court	City/County	: Tu	eka/HomboH Sampling Date: 9/25/C State: CA Sampling Point: U1775-L
Applicant/Owner: COPPT SCATTON	CONU			
Investigator(s):		Section, To	wnship, Ra	ange:
Landform (hillslope, terrace, etc.): TOE Will 510	pe	Local relie	f (concave,	convex, none): CONCONC Slope (%): \C
Subregion (LRR):	Lat:			Long: Datum:
Soil Map Unit Name:				NWI classification: (If no, explain in Remarks.)
Are climatic / hydrologic conditions on the site typical for	this time of ye	ar? Yes _	∠ _{No} ¹	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	significantly	disturbed?	N Are	"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology	naturally pro	hlematic?	(If n	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site ma	p showing	samplin	g point l	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	$_{No}$ \times			
Hydric Soil Present? Yes			e Sampleo	
Wetland Hydrology Present? Yes	No X	with	in a Wetla	nd? Yes No
Remarks:				
		•		
VEGETATION				
Troo Charles (III and a significant		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Use scientific names.)	% Cover	Species?	_Status_	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
34				Species Across All Strata: (B)
Total Cov				Percent of Dominant Species 2
Sapling/Shrub Stratum .	ы			That Are OBL, FACW, or FAC: (A/B)
1. Baccharis phylaris		_/_	WI	Prevalence Index worksheet:
2. Chamnus purshiana	5_		Mt,	Total % Cover of:Multiply by:
3 Rubis discolor	5_		FACW	OBL species x 1 =
4				FACW species x 2 =
5				FAC species x 3 =
Herb Stratum Total Cov	er:			FACU species x 4 =
1. Anthranthum odoratum	20		TACH	UPL species x 5 =
2. Polystichum munitar	- <u>N</u>		WIL	Column Totals: (A) (B)
3. Fostica arundiraron	- 30		FAC-	Prevalence Index = B/A = _
4. Heracleum lanatum	- 50/	New	FACIA	Hydrophytic Vegetation Indicators:
5. Achillea millefolium		Concrete.	TACIA	Dominance Test is >50%
6. Equisetum arvense		·	TACU	Prevalence Index is ≤3.0 ¹
7. DUBLING PHILASUK	_ 5	<u></u>	OBL	Morphological Adaptations ¹ (Provide supporting
8. Stachys Dalystris	5		OBL	data in Remarks or on a separate sheet)
Plantigo lanceolato Total Cove	er:			Wetland Bryophytes ¹
Woody Vine Stratum	90			Problematic Hydrophytic Vegetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetland hydrology must be present.
2				·
Total Cove	er:			Hydrophytic Vegetation
% Bare Ground in Herb Stratum		•		Present? Yes No
Remarks:			<u>.</u>	

SOIL Martins Slovan	9125108	LLWAKS Sampling Point: VIFTS
Profile Description: (Describe to the de	pth needed to document the indicator or	confirm the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹	Loc ² Texture Remarks
0-4 104R3/2 100%		soil mixed
4-15 104R312 100%		L god mixed
	· · · · · · · · · · · · · · · · · · ·	
¹ Type: C=Concentration, D=Depletion, RN	M=Reduced Matrix 2 ocation: PI =Poro I	ining PC=Pack Channel M. M. J.
Hydric Soil Indicators: (Applicable to al	LRRs, unless otherwise noted.)	ining, RC=Root Channel, M=Matrix. Indicators for Problematic Hydric Soils³:
Histosol (A1)	Sandy Redox (S5)	
Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MI	LRA 1) Other (Explain in Remarks)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	/ = stor (=Ap.sati in Formano)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	•
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)	Depleted Dark Surface (F7)Redox Depressions (F8)	³ Indicators of hydrophytic vegetation and
Restrictive Layer (if present):	Redox Depressions (F8)	wetland hydrology must be present.
Type:)
Depth (inches):		
Remarks:		Hydric Soil Present? Yes No _v
1 sontate at for a		
addian id a	meanto dividued rediv	1000 tree moterial - brit
red color Looks	else reconstruction	wood tree material-brit
		and the second
IVDDOLOGY		
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is suff		Water-Stained Leaves (B9) (NW coast)
Surface Water (A1)	Water-Stained Leaves (B9) (except	NW coast) Sparsely Vegetated Concave Surface (B8)
High Water Table.(A2)	Salt Crust (B11)	Drainage Patterns (B10)
Saturation (A3)	Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)
Sediment Deposits (B2)	Oxidized Rhizospheres along Living	Roots (C3) Geomorphic Position (D2)
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)
Algal Mat or Crust (B4)	Recent Iron Reduction in Plowed So	
Iron Deposits (B5)	Stunted or Stressed Plants (D1) (LR	
Surface Soil Cracks (B6)	Other (Explain in Remarks)	Raised Ant Mounds (D6) (LRR A)
Inundation Visible on Aerial Imagery (B Field Observations:	(1)	
	/	
Surface Water Present? Yes		
	No Depth (inches):	
Saturation Present? Yes (includes capillary fringe)	No Depth (inches):	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, previous inspec	tions) if available:
(mapec	autonoj, ii avaliabie.
Remarks:		
PH & 5-Ft From tro	VC 0-1	
THE STATE HOW TY	ni ixCL	

				ns, Valleys and Coast Region (DRAFT)
		City/County	y: Dure	ka/Humbokt Sampling Date: 9/25/0
Applicant/Owner: Sen a Straro				State: CA Sampling Point: WIFTS-L
Investigator(s): LW ((S			ownship, Ra	
				convex, none): CONCOUC. Slope (%):
		<u> </u>		Long: Datum:
Soil Map Unit Name:				NWI classification:
Are climatic / hydrologic conditions on the site typical f				
Are Vegetation, Soil, or Hydrology			Are "	Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology	naturally pro	blematic?	(If ne	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site n	nap showing	samplin	ng point le	ocations, transects, important features, etc.
	No No No	2 1	ne Sampled nin a Wetlar	
VEGETATION				
Tree Stratum (Use scientific names.) 1.	% Cover	Dominant Species?		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4.				Percent of Dominant Species × 2
Sapling/Shrub Stratum	Cover:		ا . ' . سور	That Are OBL, FACW, or FAC: (A/B)
1. Rubis discolor		10	FACW	Prevalence Index worksheet:
2 PCUBUS WYSINGS	<u> </u>			Total % Cover of: Multiply by:
3.				OBL species x 1 =
4				FACW species x 2 =
5				FACULTURE X 3 =
Horb Stratum	Cover:			FACU species x 4 =
1. Festura arundinarea			FAC-	UPL species x 5 = Column Totals: (A) (B)
2. <u>Fauisetum</u>	5_		FACW	Column Totals (A) (B)
3. Stachus	5_		OBL	Prevalence Index = B/A =
4. Achillea			FACU	Hydrophytic Vegetation Indicators:
5	<u> </u>			∑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			. ———	Wetland Bryophytes ¹
Total C Woody Vine Stratum	Cover:			Problematic Hydrophytic Vegetation¹ (Explain)
12.				¹ Indicators of hydric soil and wetland hydrology must be present.
	 Cover:			Hydrophytic
	,over			Vegetation
% Bare Ground in Herb Stratum		·		Present? Yes No
Remarks:				

SOIL Martins Slanh	9/25/08	LLWHKS Sampling Point: <u>UIFT5-W</u>
Profile Description: (Describe to the depth r	needed to document the indicator or confirm	n the absence of indicators.)
Depth Matrix (inches) Color (moist) %	Redox Features	real fields
	Color (moist) % Type ¹ Loc ²	Texture Remarks
	CVOV4	
5-15+ 10 4R3/2 90% 1	07R4/6 1096 C M	
¹ Type: C=Concentration, D=Depletion, RM=Rec	June d Matrice 21	
Hydric Soil Indicators: (Applicable to all LRR		
Histosol (A1)	Sandy Redox (S5)	Indicators for Problematic Hydric Soils ³ :
Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Other (Explain in Remarks)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	
Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	Øepleted Matrix (F3) Redox Dark Surface (F6)	
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	³ Indicators of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	wetland hydrology must be present.
Restrictive Layer (if present):		33
Type:		
Depth (inches):		Hydric Soil Present? Yes No
law Unroma Wre	anx near surface	-> hydroc 3011
HYDROLOGY		
Wetland Hydrology Indicators:	1 d	Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient	<u>) </u>	Water-Stained Leaves (B9) (NW coast)
Surface Water (A1)	_ Water-Stained Leaves (B9) (except NW co	
High Water Table (A2)	_ Salt Crust (B11)	Drainage Patterns (B10)
Saturation (A3)	_ Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)
Water Marks (B1)	_ Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)
Sediment Deposits (B2) Drift Deposits (B3)	_ Oxidized Rhizospheres along Living Roots (
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)
Iron Deposits (B5)	Recent Iron Reduction in Plowed Soils (C6)Stunted or Stressed Plants (D1) (LRR A)	Frost-Heave Hummocks (D4) X FAC-Neutral Test (D5)
Surface Soil Cracks (B6)	Other (Explain in Remarks)	Raised Ant Mounds (D6) (LRR A)
Inundation Visible on Aerial Imagery (B7)		(Kaloda / III. Modilida (Bo) (EKK A)
Field Observations:	/	
Surface Water Present? Yes No	Depth (inches):	
Water Table Present? Yes No 👱	Depth (inches):	
Saturation Present? Yes No <u>v</u> (includes capillary fringe)	Depth (inches): Wetla	and Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitori	ng well, aerial photos, previous inspections), it	f available:
Remarks:		
Pit & 4-ft from tran		
Hydrology assume	d based on prens	ence at redoct veg species

WETLAND DETERMINATION DATA	FORM -	Western	Mountai	ns, Valleys and Coast Region (DRAFT)
Project/Site: Martin Slough		City/Count	y: Fure	Ka/Humbold+ Sampling Date: 9/25/09
Applicant/Owner: Senestraro				State: CA Sampling Point: 47T10-L
Investigator(s): LW/KS				inge:
Landform (hillslope, terrace, etc.): TOR MISS	ne	Local relie	ef (concave	convex none) COCANY Slone (%): \Z
Subregion (LRR):	•			
Soil Map Unit Name:				NWI classification:
Are climatic / hydrologic conditions on the site typical for thi	a tima af va	ar? Voo	V No.	//f no ambining Danada)
			4	
Are Vegetation, Soil, or Hydrology s			()	"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology r			•	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing	samplir	ng point l	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes N	, X			
Hydric Soil Present? Yes N			he Sampled	
Wetland Hydrology Present? Yes N		with	hin a Wetlar	nd? YesNo
Remarks:				
		·		
VEGETATION		- "		
Tree Stratum (Use scientific names.)	Absolute		t Indicator	Dominance Test worksheet:
1	% Cover	Species :	<u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2.			•	That Are OBL, FACW, or FAC:(A)
3.				Total Number of Dominant Species Across All Strata: (B)
4				
Total Cover				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum 1. Dicea Citchensis	2%		ta A	
			THU	Prevalence Index worksheet:
3				
4				FACW species x 2 =
5.				FAC species x 3 =
Total Cover	:			FACU species x 4 =
Herb Stratum	110	M	± 1014	UPL species x 5 =
1. Anthoxanthum odoratom	40	<u> </u>	FACH	Column Totals: (A) (B)
3. Rumor arothe shir	10	7	FAC	B
3. Kumox aleticella 4. Astor chilenses	70		-/VI	Prevalence Index = B/A = Hydrophytic Vegetation Indicators:
5. Linium	20			Dominance Test is >50%
6. Hypochaeris radiata	=	4	11	Prevalence Index is ≤3.0¹
7.				Morphological Adaptations¹ (Provide supporting
8.				data in Remarks or on a separate sheet)
Total Cover				Wetland Bryophytes ¹
Woody Vine Stratum				Problematic Hydrophytic Vegetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetland hydrology must be present.
2				<u>'</u>
Total Cover:				Hydrophytic Vegetation
% Bare Ground in Herb Stratum				Present? Yes No
Remarks:				

soil Mactins Slank	9/75/08	LLW+KS Sampling Point: UI+T10-
Profile Description: (Describe to the c	depth needed to document the indicator or confirm	
Depth Matrix	Redox Features	·
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0-8 104R3/2 1009	0	LISL soil mixed due tosk
8-15 10YR4/4 100	%	1/51 more coulmixed
		ayue The Think I The
	· .	
¹ Type: C=Concentration, D=Depletion, R	PM—Doduced Matrix 21 anning Di Dan Livia D	
Hydric Soil Indicators: (Applicable to	RM=Reduced Matrix. ² Location: PL=Pore Lining, R	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	
Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Other (Explain in Remarks)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	³ Indicators of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	wetland hydrology must be present.
Restrictive Layer (if present):		
Type:	·	
Depth (inches):		Hydric Soil Present? Yes No
Remarks:		
YDROLOGY		
Wetland Hydrology Indicators:	,	Socondary Indicators (2 as see as it is
Primary Indicators (any one indicator is su	ufficient)	Secondary Indicators (2 or more required)
Surface Water (A1)	-	Water-Stained Leaves (B9) (NW coast)
High Water Table (A2)	Water-Stained Leaves (B9) (except NW co	· · · · · · · · · · · · · · · · · · ·
Saturation (A3)	Salt Crust (B11)	Drainage Patterns (B10)
Water Marks (B1)	Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Oxidized Rhizospheres along Living Roots (, , , ,
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)
Iron Deposits (B5)	Recent Iron Reduction in Plowed Soils (C6)	
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LRR A)	FAC-Neutral Test (D5)
Inundation Visible on Aerial Imagery (Other (Explain in Remarks)	Raised Ant Mounds (D6) (LRR A)
Field Observations:	(87)	
Surface Water Present? Yes		
Vater Table Present? Yes		
Saturation Present? Yes includes capillary fringe)	No V Depth (inches): Wetla	ind Hydrology Present? Yes No
		,
rescribe recorded Data (stream dange, r	monitoring well, aerial photos, previous inspections), it	f available:
pescribe Recorded Data (stream gauge, r	monitoring well, aerial photos, previous inspections), if	f available:
	nonitoring well, aerial photos, previous inspections), if	f available:
Remarks:		f available:
Remarks:		f available:
· ·		f available:

·				ns, Valleys and Coast Region (DRAFT)
Project/Site: Martin Slowsh		City/County	, FINCE	Ka/Hvmboldt Sampling Date: 9/25/ State: CA Sampling Point: W7710
Applicant/Owner: Senestraro		عادي والماري	.2	State: CA Sampling Point: WITTIN
				ange:
Landform (hillslope, terrace, etc.): ta willsloy	20	Local relie	f (concave	convey none): CONCAIN Slane (9(1): 5
Subregion (LRR):	-			
Soil Map Unit Name:				
Are climatic / hydrologic conditions on the site typical for th				
Are Vegetation, Soil, or Hydrology			_	
				· · · · · · · · · · · · · · · · · · ·
Are Vegetation, Soil, or Hydrology			•	
SUMMARY OF FINDINGS – Attach site map	showing	samplin	g point l	ocations, transects, important features, etc
Hydric Soil Present? Yes 1	No No No		ne Sampleo nin a Wetla	
Neillains.				
/EGETATION				
<u>Tree Stratum</u> (Use scientific names.) 1.	Absolute % Cover	Dominant Species?		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2 3				Total Number of Dominant Species Across All Strata: (B)
Conling/Chruh Ctrotum	er:	'		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
1. Lonicera in voluciata	10		FAC	Prevalence Index worksheet:
3				OBL species x 1 =
4				FACW species x 2 =
5				FAC species x 3 =
Total Cove Herb Stratum	r:(FACU species x 4 =
1. Festica arundinacea	10		FAC-	UPL species x 5 =
2. Anthoxanthum odoration	30	$\overline{}$	FACU	Column Totals: (A) (B)
3. Farisetum	10	$\overline{}$	FACU	Prevalence Index = B/A =
4. Holcus lanatus	20		FAC	Hydrophytic Vegetation Indicators: Dominance Test is >50%
S				Prevalence Index is ≤3.0 ¹
7				Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
3	- an			Wetland Bryophytes ¹
Total Cove	r: <u>10 </u>			Problematic Hydrophytic Vegetation ¹ (Explain)
2.				¹ Indicators of hydric soil and wetland hydrology must be present.
Total Cove	or:			Hydrophytic (1
% Bare Ground in Herb Stratum				Vegetation Present? Yes No
				resNO
Remarks:				rieseilt. tes . No

SOIL Mortins Slove	7h 9/25/08	LLW+KSsampling Point: <u>UI7-T10</u>
Profile Description: (Describe to the de	epth needed to document the indicator or confi	rm the absence of indicators.)
Depth <u>Matrix</u>	Redox Features	
(inches) Color (moist) %	Color (moist) % Type¹ Loc²	Texture Remarks
	7.542 68 5% C M	
8-15+ 1040-42 85%	5104R4/3 1506 C M	Leels buttery + Sandy
	-	
¹ Type: C=Concentration, D=Depletion, RN	#=Reduced Matrix 2 ocation: PL =Pore Lining	DC-Doot Charry I M I I I
Hydric Soil Indicators: (Applicable to al	I LRRs, unless otherwise noted.)	RC=Root Channel, M=Matrix. Indicators for Problematic Hydric Soils³:
Histosol (A1)	Sandy Redox (S5)	
Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1) Other (Explain in Remarks)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	✓ Redox Dark Surface (F6)	
Sandy Gleyed Matrix (S4)	Depleted Dark Surface (F7) Redox Depressions (F8)	³ Indicators of hydrophytic vegetation and
Restrictive Layer (if present):	Redox Depressions (Fo)	wetland hydrology must be present.
Type:	•	11 15 -11 11-10 (5) 5 - 5 - 4
Depth (inches):		0-8" (8-15"=) redox our efcirit) Hydric Soil Present? Yes No
Remarks:		Hydric Soil Present? Yes V No
	olredox near guifa	ice → hydric soul
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is suff		Water-Stained Leaves (B9) (NW coast)
Surface Water (A1)	Water-Stained Leaves (B9) (except NW co	oast) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	Sait Crust (B11)	Drainage Patterns (B10)
Saturation (A3)	Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)
Sediment Deposits (B2) Drift Deposits (B3)	Oxidized Rhizospheres along Living Roots	(C3) Geomorphic Position (D2)
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)
Iron Deposits (B5)	Recent Iron Reduction in Plowed Soils (C6)	
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LRR A)	FAC-Neutral Test (D5)
Inundation Visible on Aerial Imagery (B)	Other (Explain in Remarks)	Raised Ant Mounds (D6) (LRR A)
Field Observations:	,	
Confere Met B	No V Depth (inches):	
Water Table Present? Yes		
Saturation Present? Yes		
(includes capillary fringe)		and Hydrology Present? Yes V No
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, previous inspections), i	if available:
Remarks:		
DL Or-lin 1-1. IF OI	Con tongo - 1	
Pitapproximately 15-ft	now housest.	
Hydrology assun	nod based on prenseno	e & redort ver sperior

WETLAND DETERMINATION DATA FORM -- Western Mountains, Valleys and Coast Region (DRAFT) Project/Site: Markin Starch City/County: Applicant/Owner: RCAA /Sonostraro ______ State: C Investigator(s): ______ Section, Township, Range: _____ Landform (hillslope, terrace, etc.): top. hilklope Local relief (concave, convex, none): Concave. Slope (%): 5 ______ Lat: ______ Long: ______ Datum: _____ Subregion (LRR): ____ Soil Map Unit Name: ____ NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No _____ (If no, explain in Remarks.) Are Vegetation _____, Soil ____, or Hydrology ____ significantly disturbed? N Are "Normal Circumstances" present? Yes X No ____ Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: VEGETATION Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Use scientific names.) % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species Total Cover: That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x 1 = ____ FACW species _____ x 2 = ____ FAC species _____ x 3 = ____ FACU species _____ x 4 = ____ Festica arundinaceae UPL species _____ x 5 = ____ Column Totals: _____ (A) ____ (B) 2. Anthoxanthum odoratum 3. DAUCUS Carota Prevalence Index = B/A = Hydrophytic Vegetation Indicators: ___ Dominance Test is >50% Prevalence Index is ≤3.0¹ ___ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) ___ Wetland Bryophytes¹ Total Cover: Woody Vine Stratum Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present. Total Cover: ____ Hydrophytic Vegetation % Bare Ground in Herb Stratum ____ Present?

Remarks:

Profile Description: (Describe to the did	Redox Features	•
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	
7-6 104R3/2 100		
0-15 7,543/2 100)	1 100
213 1-12 100		- L Soil MIXED WH
	– <u></u>	,
	<u> </u>	
Type: C=Concentration; D=Depletion, R lydric Soil Indicators: (Applicable to a	M=Reduced Matrix.	RC=Root Channel, M=Matrix.
Histosol (A1)	· · · · · · · · · · · · · · · · · · ·	Indicators for Problematic Hydric Soils ³ :
Histic Epipedon (A2)	Sandy Redox (S5)	2 cm Muck (A10)
Black Histic (A3)	Stripped Matrix (S6) Loamy Mucky Mineral (F1) (except MLRA 1	Red Parent Material (TF2)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)) Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	
_ Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	³ Indicators of hydrophytic vegetation and
_ Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	wetland hydrology must be present.
estrictive Layer (if present):		
Type:		
Depth (inches):emarks:		Hydric Soil Present? Yes No
emarks:		Hydric Soil Present? Yes No
emarks: 'DROLOGY		
PROLOGY etland Hydrology Indicators:		Secondary Indicators (2 or more required)
emarks: 'DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is su		Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast)
PETATE STATE OF THE PROPERTY O	Water-Stained Leaves (B9) (except NW c	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) oast) Sparsely Vegetated Concave Surface (B8)
PETAIL PROLOGY TOROLOGY Tolontology Indicators: Tolontology Indicators: Tolontology Indicators: Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) (except NW cSalt Crust (B11)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) oast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)
emarks: 'DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is sur Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (except NW c Salt Crust (B11) Aquatic Invertebrates (B13)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2)
emarks: DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is sur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except NW c Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
emarks: DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is sur _ Surface Water (A1) _ High Water Table (A2) _ Saturation (A3) _ Water Marks (B1) _ Sediment Deposits (B2)	 Water-Stained Leaves (B9) (except NW c Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots 	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2)
emarks: DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is sur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	 Water-Stained Leaves (B9) (except NW c Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) 	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3)
emarks: DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is sur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	 Water-Stained Leaves (B9) (except NW c Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6) 	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4)
emarks: TDROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is sur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	 Water-Stained Leaves (B9) (except NW c Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6 Stunted or Stressed Plants (D1) (LRR A) 	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5)
emarks: "DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is sur _ Surface Water (A1) _ High Water Table (A2) _ Saturation (A3) _ Water Marks (B1) _ Sediment Deposits (B2) _ Drift Deposits (B3) _ Algal Mat or Crust (B4) _ Iron Deposits (B5) _ Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except NW c Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4)
emarks: "DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is sur _ Surface Water (A1) _ High Water Table (A2) _ Saturation (A3) _ Water Marks (B1) _ Sediment Deposits (B2) _ Drift Deposits (B3) _ Algal Mat or Crust (B4) _ Iron Deposits (B5) _ Surface Soil Cracks (B6) _ Inundation Visible on Aerial Imagery (B	Water-Stained Leaves (B9) (except NW c Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5)
emarks: DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is sur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Edd Observations:	Water-Stained Leaves (B9) (except NW c Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5)
emarks: TDROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is sur Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Beld Observations: Inface Water Present? Yes	Water-Stained Leaves (B9) (except NW c Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5)
POROLOGY Torontology Indicators: Imary Indicators (any one indicator is sure) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Beld Observations: Inface Water Present? Yes Inter Table Present?	Water-Stained Leaves (B9) (except NW c Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No Depth (inches): Depth (inches):	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
emarks: TDROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is sur _ Surface Water (A1) _ High Water Table (A2) _ Saturation (A3) _ Water Marks (B1) _ Sediment Deposits (B2) _ Drift Deposits (B3) _ Algal Mat or Crust (B4) _ Iron Deposits (B5) _ Surface Soil Cracks (B6) _ Inundation Visible on Aerial Imagery (Beld Observations: urface Water Present? Yes ater Table Present? Yes turation Present? Yes	Water-Stained Leaves (B9) (except NW c Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No Depth (inches): Depth (inches):	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5)
emarks: DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is suitant product of the pr	Water-Stained Leaves (B9) (except NW c Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No Depth (inches): No Depth (inches): Wetl	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
emarks: DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is suitant product of the pr	Water-Stained Leaves (B9) (except NW c Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6 Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No Depth (inches): Depth (inches):	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
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WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys and Coast Region (DRAFT) Project/Site: ________ Sampling Date: 912610 Applicant/Owner: RCAR Kenostraro _____State: CA Investigator(s): LWKS _____ Section, Township, Range: ____ hills line Local relief (concave, convex, none): Concrue Slope (%): 65% Landform (hillslope, terrace, etc.): Lat: Long: _____ Datum: Subregion (LRR): ___ Soil Map Unit Name: NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No ____ (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No ___ Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? No Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Yes_ Remarks: **VEGETATION** Absolute Dominant Indicator **Dominance Test worksheet:** <u>Tree Stratum</u> (Use scientific names.) % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species Total Cover: That Are OBL, FACW, or FAC: alin scoulerana Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x 1 = ____ FACW species _____ x 2 = ____ FAC species ____ x 3 = ____ Total Cover: FACU species _____ x 4 = ____ UPL species _____ x 5 = ____ Column Totals: _____ (A) ____ (B) Prevalence Index = B/A = ____ Hydrophytic Vegetation Indicators: Nominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Wetland Bryophytes¹ Total Cover: つり Woody Vine Stratum Problematic Hydrophytic Vegetation¹ (Explain) 1. ¹Indicators of hydric soil and wetland hydrology must be present. Total Cover: Hydrophytic Vegetation % Bare Ground in Herb Stratum _____ Present? Remarks:

OIL Marting 5 Profile Description: (Describe to the	126/08 10 depth needed to document the indicate	or or confirm the absence	of indicators)
Depth Matrix	Redox Features		or mulcators.)
	% Color (moist) % Type	Loc ² Texture	Remarks
0-6 2,349/2 10		analyticana	soumixed whom
2-15 2574/2 as	5% 107R4/6 5% C	M	JOST TIME (CARRY)
20,77	10 10 10 O		
Type: C=Concentration, D=Depletion	n, RM=Reduced Matrix. ² Location: PL=Po	ore Lining, RC=Root Chann	el, M=Matrix.
	to all LRRs, unless otherwise noted.)	Indicato	s for Problematic Hydric Soils ³ :
_ Histosol (A1)	Sandy Redox (S5)	2 cm	Muck (A10)
_ Histic Epipedon (A2)	Stripped Matrix (S6)		Parent Material (TF2)
_ Black Histic (A3)	Loamy Mucky Mineral (F1) (excep	pt MLRA 1) Othe	r (Explain in Remarks)
Hydrogen Sulfide (A4)Depleted Below Dark Surface (A1	Loamy Gleyed Matrix (F2)		
_ Depleted Below Dark Surface (A1 _ Thick Dark Surface (A12)	1) Depleted Matrix (F3) Redox Dark Surface (F6)		
_ Sandy Mucky Mineral (S1)	Redox Dark Surface (F6) Depleted Dark Surface (F7)	3,	a of building the state of the
_ Sandy Gleyed Matrix (S4)	Redox Depressions (F8)		s of hydrophytic vegetation and
estrictive Layer (if present):	(i o)	wellar	d hydrology must be present.
Type:			· •
Depth (inches):		Hudria Cail I	Present? Yes No
omorko:	whredox nears		
emarks: Iow Chromo	whredox nears		
emarks: LOW CNYOMON DROLOGY	whedox nears	Burface ->1	nydric Soil
emarks: LOW CONTON DROLOGY etland Hydrology Indicators:		Burface -> 1	y Indicators (2 or more required)
emarks: LCW CNYCMC DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is	s sufficient)	Surface -> f Secondar Wate	y Indicators (2 or more required) r-Stained Leaves (B9) (NW coast)
emarks: COYCOMO DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is Surface Water (A1)	s sufficient) Water-Stained Leaves (B9) (exc	Secondar Secondar Wate Cept NW coast) Spars	y Indicators (2 or more required) r-Stained Leaves (B9) (NW coast) sely Vegetated Concave Surface (B8)
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				ns, Valleys and Coast Region (DRAFT)
Project/Site: Martin Slough		Citv/Coun	tv: Eure	ka Hymboldt Sampling Date: 9/25/0
				State: CA Sampling Point: UNT1-U
111/1/				ange:
Landform (hillslope, terrace, etc.): Alluna plai	<u> </u>	l ocal reli	ef (concave	convex none): 1 in an AC Slone (9/): N'-
Subregion (LRR):	l at:	Localiten	er (concave,	Long:
Soil Map Unit Name:				· · · · · · · · · · · · · · · · · · ·
Are climatic / hydrologic conditions on the site typical for this	time of us	ar2 Vaa	X No.	INVVI classification:
				1
Are Vegetation, Soil, or Hydrologys Are Vegetation, Soil, or Hydrologyn				
SUMMARY OF FINDINGS – Attach site map	showing	sampli	ng point l	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes N	。×			
Hydric Soil Present? Yes N			the Sampled thin a Wetlan	
Wetland Hydrology Present? Yes N	<u> </u>	Wil	ann a vvena	illur resNo
Remarks:				
VEGETATION				
VEGETATION	Absolute	Dominar	nt Indicator	Dominance Test worksheet:
Tree Stratum (Use scientific names.)	% Cover			Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2			<u> </u>	Total Number of Dominant
3		-		Species Across All Strata: (B)
4		•		Percent of Dominant Species
Total Cover:	<i>U</i>			That Are OBL, FACW, or FAC: (A/B)
1				Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
3				OBL species x 1 =
4			-	FACW species x 2 =
5		e=		FAC species x 3 =
Total Cover:		. 1		FACU species x 4 = UPL species x 5 =
1. Agrostis stolonifiera	30		FACW	
2. Dactylis glomerato	10	_4_	FACU	Column Totals: (A) (B)
3. Itolou's langtys	19		FAC	Prevalence Index = B/A =
4. Hypochaeric radiata	15	_ Y _	_WI	Hydrophytic Vegetation Indicators:
5. Zirsium Vulgaris		$-\chi$	FACH	Dominance Test is >50%
6. Trifolium repens			PACM	Prevalence Index is ≤3.0 ¹
0			-	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
Total Cover:	$1/\Omega$			Wetland Bryophytes ¹
Woody Vine Stratum	_100_			Problematic Hydrophytic Vegetation ¹ (Explain)
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:				
				l

SOIL Martins Slang	9125708	LLWHKS Sampling Point: UIGTI
	th needed to document the indicator or con	firm the absence of indicators.)
Depth Matrix (inches) Color (moist) %	Redox Features Color (moist) % Type¹ Loc²	2
5-15+ 104R 3/2 1009/0		Texture Remarks
<u> </u>		UIL
	·	•
Type: C=Concentration, D=Depletion, RM=	Reduced Matrix. ² Location: PL=Pore Lining	g, RC=Root Channel, M=Matrix.
lydric Soil Indicators: (Applicable to all I	RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
_ Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA	Other (Explain in Remarks)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
_ Thick Dark Surface (A12)	Redox Dark Surface (F6)	
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)	Depleted Dark Surface (F7)	³ Indicators of hydrophytic vegetation and
estrictive Layer (if present):	Redox Depressions (F8)	wetland hydrology must be present.
Type:		
Depth (inches):	·	
emarks:		Hydric Soil Present? Yes No
(DDOLOGY		
/DROLOGY		
etland Hydrology Indicators:		Secondary Indicators (2 or more required)
rimary Indicators (any one indicator is suffic		Water-Stained Leaves (B9) (NW coast)
_ Surface Water (A1)	Water-Stained Leaves (B9) (except NW	coast) Sparsely Vegetated Concave Surface (B8)
_ High Water Table (A2)	Salt Crust (B11)	Drainage Patterns (B10)
_ Saturation (A3)	Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)
_ Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)
Sediment Deposits (B2)	Oxidized Rhizospheres along Living Roo	ts (C3) Geomorphic Position (D2)
_ Drift Deposits (B3)	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)
_ Algai Mat or Crust (B4)	Recent Iron Reduction in Plowed Soils (C	C6) Frost-Heave Hummocks (D4)
_ Iron Deposits (B5)	Stunted or Stressed Plants (D1) (LRR A)	FAC-Neutral Test (D5)
_ Surface Soil Cracks (B6)	Other (Explain in Remarks)	Raised Ant Mounds (D6) (LRR A)
_ Inundation Visible on Aerial Imagery (B7)	<u> </u>	
eld Observations:		
	Depth (inches):	
	Depth (inches):	
aturation Present? Yes No	Depth (inches): We	etland Hydrology Present? Yes No
ncludes capillary fringe) escribe Recorded Data (stream gauge, mon	itoring well, aerial photos, previous inspections	
Table 1. 1000. God Data (Sheath gauge, 1101)	normy wen, aeriai priotos, previous inspections	i), if available:
emarks:		
R+ 2 5 + Fran		· · · · · · · · · · · · · · · · · · ·
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111	transect	
	transect	

WEILAND DETERMINATION DATA FORM – Western Mounta	ins, Valleys and Coast Region (DRAFT)
Project/Site: Math Sloush City/County: Fund	eka/Humbold Sampling Date: 9/25/0
Applicant/Owner: Vroman O	State: CA Sampling Point: UISTI-I
Investigator(s): Section, Township, R	
, VII , U 00 °	convex, none): INCOV Slope (%)
Subregion (LRR): Lat:	Long: Datum:
Soil Map Unit Name:	NWI classification:
Soil Map Unit Name: Are climatic / hydrologic conditions on the site typical for this time of year? Yes No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed? \int Are	"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problematic? (If n	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point	
	inportant reatures, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Yes No No Is the Sample	d Area
Hydric Soil Present? Wetland Hydrology Present? Yes X No within a Wetland No	nd? YesNo
Remarks:)
VECETATION	
VEGETATION	T =
Absolute Dominant Indicator <u>Tree Stratum</u> (Use scientific names.) Absolute Dominant Indicator <u>% Cover Species? Status</u>	Dominance Test worksheet:
1	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2	Total Number of Dominant
3	Species Across All Strata: (B)
Total Cover:	Percent of Dominant Species
Sapling/Shrub Stratum	That Are OBL, FACW, or FAC: (A/B)
1	Prevalence Index worksheet:
2	Total % Cover of: Multiply by:
3	OBL species x1=
4	FACW species x 2 = FAC species x 3 =
Total Cover:	FACU species x 4 =
Herb Stratum	UPL species x 5 =
	Column Totals: (A) (B)
2.1 of un perenne 10 Y FAC 3. Tritolium repens 10 Y FACIA	Prevalence Index = B/A =
4. Lotos corniculatos & Y FAC.	Hydrophytic Vegetation Indicators:
5. PruneMa vulgaris & V PAC	Dominance Test is >50%
6. Hybochaeric radiata 10 4 NI	Prevalence Index is ≤3.0¹
7. Febrica avundinacia y FAC-	Morphological Adaptations ¹ (Provide supporting
8.	data in Remarks or on a separate sheet)
Woody Vine Stratum	Wetland Bryophytes ¹
1	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must
2	be present.
Total Cover:	Hydrophytic
% Bare Ground in Herb Stratum	Vegetation 🗸
Remarks:	Present? Yes No

Depth Matrix		needed to docum	x Features	.01 01 0011111	III tile abseile	e of mulcators.)
nches) Color (moist)		Color (moist)	% Type	e ¹ Loc ²	Texture	Remarks *
)-9 by R3/2	95%	107R416	5% C	M	SIL	2
1-15T 104R3/2	90%	104R416 5	\$10°/0159691	Milelton	SII	
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	· ——— —					
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· · · · · · · · · · · · · · · · · · ·						
	1					•
ype: C=Concentration, D=Dep	letion, RM=F	leduced Matrix.	² Location: PL=F	Pore Lining,	RC=Root Char	nnel. M=Matrix.
dric Soil Indicators: (Applic				اقسي.		ors for Problematic Hydric Soils ³ :
Histosol (A1)		_ Sandy Redox (S	*		2 c	m Muck (A10)
Histic Epipedon (A2)		_ Stripped Matrix (d Parent Material (TF2)
_ Black Histic (A3) _ Hydrogen Sulfide (A4)	_	I∕oamy Mucky M /Loamy Gleyed N		ept MLRA 1) Oth	ner (Explain in Remarks)
Depieted Below Dark Surface	e (A11)	Depleted Matrix				
Thick Dark Surface (A12)	` `	Redox Dark Sur				
Sandy Mucky Mineral (S1)	_	_ Depleted Dark S	• •		³ Indicat	ors of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)		_ Redox Depressi	ons (F8)		wetla	and hydrology must be present.
-4-1-41 (!£						
_				*		
Type:		<u>. </u>			lladia o	
Type:		- - - - - - - - - - - - - - - - - - -	Surface	2->1		il Present? Yes No No
Type:		_ 	Surface	2 -> 1		
Type: Depth (inches): emarks: Council Connection Connectica Connection Connection Connection Connection Connection Connectica Connection Connection Connection Connection Connection Connectica Con		- 0x noor	Surface	2->1		
Type: Depth (inches): marks: CONTON DROLOGY		- - - - - - - - - - - - - - - - - - -	Surface	2 ->1	nydric	
Type:	y redu		Surfac	2 -> 1	nychric Second	Soil
Depth (inches): Depth (inches): DROLOGY Setland Hydrology Indicators: mary Indicators (any one indicators) Surface Water (A1)	y redu	ent)	SV(Face		Second Wa	ary Indicators (2 or more required)
Depth (inches):	y redu	ent) Water-Stained Salt Crust (B1	d Leaves (B9) (e		Second Wasoast) Spa	lary Indicators (2 or more required) tter-Stained Leaves (B9) (NW coast)
Depth (inches): marks: DROLOGY etland Hydrology Indicators: mary Indicators (any one indicators) Surface Water (A1) High Water Table (A2) Saturation (A3)	y redu	ent) Water-Stained Salt Crust (B1 Aquatic Invert	d Leaves (B9) (e 1) ebrates (B13)		Second Wascoast) Spa Dra Dry	lary Indicators (2 or more required) hter-Stained Leaves (B9) (NW coast) harsely Vegetated Concave Surface (B8 hinage Patterns (B10) hr-Season Water Table (C2)
Depth (inches): marks: DROLOGY etland Hydrology Indicators: mary Indicators (any one indicators) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	y redu	ent) Water-Stained Salt Crust (B1 Aquatic Invert Hydrogen Sul	d Leaves (B9) (e 1) ebrates (B13) fide Odor (C1)	except NW (Second Wascoast) Spa Dra Dry Sat	lary Indicators (2 or more required) hter-Stained Leaves (B9) (NW coast) harsely Vegetated Concave Surface (B8 hinage Patterns (B10) h-Season Water Table (C2) hturation Visible on Aerial Imagery (C9)
Depth (inches): marks: DROLOGY etland Hydrology Indicators: mary Indicators (any one indicators) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	y redu	ent) Water-Stained Salt Crust (B1 Aquatic Invert Hydrogen Sul	d Leaves (B9) (e 1) ebrates (B13) fide Odor (C1) cospheres along	except NW o	Second Wa coast) Spa Dra Dry Sat s (C3) Ge	lary Indicators (2 or more required) htter-Stained Leaves (B9) (NW coast) harsely Vegetated Concave Surface (B8 hinage Patterns (B10) h-Season Water Table (C2) httration Visible on Aerial Imagery (C9) homorphic Position (D2)
Depth (inches): marks: DROLOGY etland Hydrology Indicators: mary Indicators (any one indicators): High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	y redu	ent) Water-Stained Salt Crust (B1 Aquatic Invert Hydrogen Sull Oxidized Rhiz Presence of R	d Leaves (B9) (e 1) ebrates (B13) fide Odor (C1) cospheres along Reduced Iron (C4	except NW of Living Root	Second Wascoast) Spa Dra Dry Sat S (C3) Gee Sha	lary Indicators (2 or more required) hter-Stained Leaves (B9) (NW coast) arsely Vegetated Concave Surface (B8 hinage Patterns (B10) /-Season Water Table (C2) huration Visible on Aerial Imagery (C9) omorphic Position (D2) allow Aquitard (D3)
Depth (inches):	y redu	ent) Water-Stained Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of R	d Leaves (B9) (e 1) tebrates (B13) fide Odor (C1) tospheres along Reduced Iron (C4 teduction in Plow	Except NW of Living Root 4) ved Soils (C	Second Wa Spa Dra Dry Sat Sat Sha Sh	lary Indicators (2 or more required) hter-Stained Leaves (B9) (NW coast) arsely Vegetated Concave Surface (B8 ainage Patterns (B10) /-Season Water Table (C2) turation Visible on Aerial Imagery (C9) omorphic Position (D2) allow Aquitard (D3) est-Heave Hummocks (D4)
Depth (inches): marks: DROLOGY etland Hydrology Indicators: mary Indicators (any one indicators) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	y redu	ent) Water-Stained Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of R	d Leaves (B9) (e 1) tebrates (B13) fide Odor (C1) tospheres along Reduced Iron (C4 teduction in Plow ressed Plants (D	Except NW of Living Root 4) ved Soils (C	Second Wascoast) Spa Dra Dry Sat s (C3) Ge Sha 6) Fro	lary Indicators (2 or more required) hter-Stained Leaves (B9) (NW coast) arsely Vegetated Concave Surface (B8 hinage Patterns (B10) /-Season Water Table (C2) huration Visible on Aerial Imagery (C9) comorphic Position (D2) hallow Aquitard (D3) hist-Heave Hummocks (D4) C-Neutral Test (D5)
Depth (inches):	I redu	ent) Water-Stained Salt Crust (B1 Aquatic Invert Hydrogen Sull Oxidized Rhiz Presence of R Recent Iron R Stunted or Str	d Leaves (B9) (e 1) tebrates (B13) fide Odor (C1) tospheres along Reduced Iron (C4 teduction in Plow ressed Plants (D	Except NW of Living Root 4) ved Soils (C	Second Wascoast) Spa Dra Dry Sat s (C3) Ge Sha 6) Fro	lary Indicators (2 or more required) hter-Stained Leaves (B9) (NW coast) arsely Vegetated Concave Surface (B8 ainage Patterns (B10) /-Season Water Table (C2) turation Visible on Aerial Imagery (C9) omorphic Position (D2) allow Aquitard (D3) est-Heave Hummocks (D4)
Depth (inches): marks: DROLOGY etland Hydrology Indicators: mary Indicators (any one indicators) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial In	I redu	ent) Water-Stained Salt Crust (B1 Aquatic Invert Hydrogen Sull Oxidized Rhiz Presence of R Recent Iron R Stunted or Str	d Leaves (B9) (e 1) tebrates (B13) fide Odor (C1) tospheres along Reduced Iron (C4 teduction in Plow ressed Plants (D	Except NW of Living Root 4) ved Soils (C	Second Wascoast) Spa Dra Dry Sat s (C3) Ge Sha 6) Fro	lary Indicators (2 or more required) hter-Stained Leaves (B9) (NW coast) arsely Vegetated Concave Surface (B8 hinage Patterns (B10) /-Season Water Table (C2) huration Visible on Aerial Imagery (C9) comorphic Position (D2) hallow Aquitard (D3) hist-Heave Hummocks (D4) C-Neutral Test (D5)
Depth (inches): marks: CW CN CO etland Hydrology Indicators: mary Indicators (any one indicators) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Inclid Observations:	I redu	ent) Water-Stained Salt Crust (B1 Aquatic Invert Hydrogen Sull Oxidized Rhiz Presence of R Recent Iron R Stunted or Str	d Leaves (B9) (e 1) tebrates (B13) fide Odor (C1) tospheres along Reduced Iron (C4 teduction in Plow ressed Plants (D	Living Root 4) ved Soils (C	Second Wascoast) Spa Dra Dry Sat s (C3) Ge Sha 6) Fro	lary Indicators (2 or more required) hter-Stained Leaves (B9) (NW coast) arsely Vegetated Concave Surface (B8 hinage Patterns (B10) /-Season Water Table (C2) huration Visible on Aerial Imagery (C9) comorphic Position (D2) hallow Aquitard (D3) hist-Heave Hummocks (D4) C-Neutral Test (D5)
Depth (inches):	ator is sufficient	water-Stained Salt Crust (B1 Aquatic Invert Hydrogen Sult Oxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explain	d Leaves (B9) (e 1) rebrates (B13) fide Odor (C1) cospheres along Reduced Iron (C4 reduction in Plow ressed Plants (D	Living Root 4) ved Soils (C	Second Wascoast) Spa Dra Dry Sat s (C3) Ge Sha 6) Fro	lary Indicators (2 or more required) hter-Stained Leaves (B9) (NW coast) arsely Vegetated Concave Surface (B8 hinage Patterns (B10) /-Season Water Table (C2) huration Visible on Aerial Imagery (C9) comorphic Position (D2) hallow Aquitard (D3) hist-Heave Hummocks (D4) C-Neutral Test (D5)
Depth (inches): Depth (inches): Demarks: DROLOGY DROLOGY Detland Hydrology Indicators: Imary Indicators (any one indicators) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Incided Observations: Inface Water Present? Surface Water Present? Surface Table Present?	magery (B7)	ent) Water-Stained Salt Crust (B1 Aquatic Invert Hydrogen Sult Oxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explain	d Leaves (B9) (e 1) tebrates (B13) fide Odor (C1) tospheres along Reduced Iron (C4 teduction in Plow ressed Plants (D n in Remarks)	Living Root 4) ved Soils (C 1) (LRR A)	Second Wascoast) Spa Dra Dry Sat s (C3) Ge Sha 6) Fro	lary Indicators (2 or more required) hter-Stained Leaves (B9) (NW coast) arsely Vegetated Concave Surface (B8 hinage Patterns (B10) Season Water Table (C2) huration Visible on Aerial Imagery (C9) homorphic Position (D2) hallow Aquitard (D3) hist-Heave Hummocks (D4) C-Neutral Test (D5) hised Ant Mounds (D6) (LRR A)
Depth (inches):	magery (B7) es No es No	water-Stained Salt Crust (B1 Aquatic Invert Hydrogen Sult Oxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explain Depth (inc	d Leaves (B9) (e 1) tebrates (B13) fide Odor (C1) tospheres along Reduced Iron (C4) teduction in Plow ressed Plants (D n in Remarks) thes):	Living Root 4) ved Soils (C 1) (LRR A)	Second Wasoast) — Spa Dra Dry Satistics (C3) — Ge Sha Fro FAI Rai	lary Indicators (2 or more required) hter-Stained Leaves (B9) (NW coast) arsely Vegetated Concave Surface (B8 hinage Patterns (B10) Season Water Table (C2) huration Visible on Aerial Imagery (C9) homorphic Position (D2) hallow Aquitard (D3) hist-Heave Hummocks (D4) C-Neutral Test (D5) hised Ant Mounds (D6) (LRR A)
Depth (inches): emarks: CON	magery (B7) es No es No	water-Stained Salt Crust (B1 Aquatic Invert Hydrogen Sult Oxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explain Depth (inc	d Leaves (B9) (e 1) tebrates (B13) fide Odor (C1) tospheres along Reduced Iron (C4) teduction in Plow ressed Plants (D n in Remarks) thes):	Living Root 4) ved Soils (C 1) (LRR A)	Second Wasoast) — Spa Dra Dry Sat State Sha Fro FAI Rai	lary Indicators (2 or more required) hter-Stained Leaves (B9) (NW coast) arsely Vegetated Concave Surface (B8 hinage Patterns (B10) Season Water Table (C2) huration Visible on Aerial Imagery (C9) homorphic Position (D2) hallow Aquitard (D3) hist-Heave Hummocks (D4) C-Neutral Test (D5) hised Ant Mounds (D6) (LRR A)

WEILAND DETERMINATION DATA FORM – Western Mountain	
Project/Site: Mwth Slowh City/County: Ewro	ekal Humboldtsampling Date: 9/25/c
	State: CA Sampling Point: UI9T1-V
Investigator(s): Section Township Pr	ange:
Landform (hillslope, terrace, etc.): Allunial Plain Local relief (concave,	convex none): LIN 20 F Slone (%): O-1
Subregion (LRR): Lat:	Loud. Datum.
Soil Map Unit Name:	NIMI classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _	(If no explain in Remarks)
Are Vegetation, Soil, or Hydrology significantly disturbed? Y	
	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point	•
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes No Yes No Is the Sampled within a Wetland Wetland Hydrology Present?	d Area
VEGETATION	
Tree Stratum (Use scientific names.) Absolute Dominant Indicator % Cover Species? Status 1	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2	Total Number of Dominant Species Across All Strata: (B)
Sapling/Shrub Stratum Total Cover:	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
1	Prevalence Index worksheet:
2	Total % Cover of: Multiply by:
3	OBL species x1 =
5	FACW species x 2 = FAC species x 3 =
Total Cover:	FACU species x4 =
Herb Stratum	UPL species x 5 =
1. Tritolium repens 25 / Fich	Column Totals: (A) (B)
2. Lolium perenne 20 V FAC 3. Cirsium Vulgaris 15 V FACH	
4. Halcus langus	Prevalence Index = B/A = Hydrophytic Vegetation Indicators:
5. Hypochaeris radiata 10 NI	Dominance Test is >50%
6	Prevalence Index is ≤3.0¹
7	Morphological Adaptations ¹ (Provide supporting
8	data in Remarks or on a separate sheet)
Total Cover: 100	Wetland Bryophytes ¹
Woody Vine Stratum	Problematic Hydrophytic Vegetation ¹ (Explain)
1	Indicators of hydric soil and wetland hydrology must be present.
2	Hydrophytic Vegetation
% Bare Ground in Herb Stratum	Present? Yes No
Remarks:	·

	Redox Features	
nches) Color (moist) 9 -8 10 Y R 3/7 100		Texture Remarks
		_ SIL
-151 10413121a	210	SIL.
rpe: C=Concentration, D=Depletion,	RM=Reduced Matrix. ² Location: PL=Pore Lining, o all LRRs, unless otherwise noted.)	RC=Root Channel, M=Matrix.
Histosol (A1)	•	Indicators for Problematic Hydric Soils ³ :
Histic Epipedon (A2)	Sandy Redox (S5) Stripped Matrix (S6)	2 cm Muck (A10)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA	Red Parent Material (TF2)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	1) Other (Explain in Remarks)
Depleted Below Dark Surface (A11	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	³ Indicators of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	wetland hydrology must be present.
strictive Layer (if present):		
Type:		·
Dooth /inches).		·
Depth (inches):		Hydric Soil Present? Yes No
emarks:		Hydric Soil Present? Yes No
marks: DROLOGY		
DROLOGY etland Hydrology Indicators:	Sufficient	Secondary Indicators (2 or more required)
marks: DROLOGY etland Hydrology Indicators: mary Indicators (any one indicator is		Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast)
DROLOGY etland Hydrology Indicators: mary Indicators (any one indicator is Surface Water (A1)	Water-Stained Leaves (B9) (except NW of	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coas t) Coast) Sparsely Vegetated Concave Surface (B
DROLOGY etland Hydrology Indicators: mary Indicators (any one indicator is Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) (except NW of Salt_Crust (B11)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (Bi Drainage Patterns (B10)
DROLOGY etland Hydrology Indicators: mary Indicators (any one indicator is Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (except NW of Salt Crust (B11)Aquatic Invertebrates (B13)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8 Drainage Patterns (B10) Dry-Season Water Table (C2)
DROLOGY etland Hydrology Indicators: mary Indicators (any one indicator is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	 Water-Stained Leaves (B9) (except NW of Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) 	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (Bi Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
DROLOGY etland Hydrology Indicators: mary Indicators (any one indicator is Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (except NW of Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (Bi Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) s (C3) Geomorphic Position (D2)
DROLOGY Itland Hydrology Indicators: mary Indicators (any one indicator is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) (except NW of Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (Bi Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) s (C3) Geomorphic Position (D2) Shallow Aquitard (D3)
DROLOGY etland Hydrology Indicators: mary Indicators (any one indicator is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (B9) (except NW of Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (Bi Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) s (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4)
DROLOGY etland Hydrology Indicators: mary Indicators (any one indicator is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (B9) (except NW of Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (Bi Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) S (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5)
DROLOGY Itland Hydrology Indicators: mary Indicators (any one indicator is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B9) (except NW of Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) s (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4)
DROLOGY Itland Hydrology Indicators: mary Indicators (any one indicator is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imager	Water-Stained Leaves (B9) (except NW of Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (Bi Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) S (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5)
DROLOGY etland Hydrology Indicators: mary Indicators (any one indicator is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imager Id Observations:	Water-Stained Leaves (B9) (except NW of Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (Bi Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) S (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5)
emarks: DROLOGY etland Hydrology Indicators: mary Indicators (any one indicator is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imager Ild Observations: rface Water Present? Yes	Water-Stained Leaves (B9) (except NW of Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) y (B7) Depth (inches):	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (Bi Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) S (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5)
PROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imager eld Observations: rface Water Present? yes ater Table Present? Yes turation Present? Yes turation Present? Yes	Water-Stained Leaves (B9) (except NW of Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) y (B7) No Depth (inches): Depth (inches):	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (Bi Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) S (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
emarks: DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imager eld Observations: rface Water Present? yes ater Table Present? yes cludes capillary fringe)	Water-Stained Leaves (B9) (except NW of Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) y (B7) No Depth (inches): No Depth (inches): Wet	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) S (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
emarks: DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imager eld Observations: rface Water Present? ter Table Present? yes turation Present? yes cludes capillary fringe)	Water-Stained Leaves (B9) (except NW of Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) y (B7) No Depth (inches): Depth (inches):	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) S (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
emarks: DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imager eld Observations: rface Water Present? ter Table Present? yes turation Present? yes cludes capillary fringe)	Water-Stained Leaves (B9) (except NW of Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) y (B7) No Depth (inches): No Depth (inches): Wet	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (Bi Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) S (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)

WETLAND DETERMINATION DATA FO	RM – W	/estern	Mountair	ns, Valleys and Coast Region (DRAFT)	
				cal Humboldt Sampling Date: 9/25	Ing
Applicant/Owner: RCAA (Sitc= Sinestro	{	ity/Count	y: <u>FWIEK</u>	Sampling Date: V 25	100
				State: CA Sampling Point: VI9T	1-V
	~ s	Section, To	ownship, Ra	inge:	~ ~
Landform (hillslope, terrace, etc.): Alluval plan					
	_at:			Long: Datum:	
Soil Map Unit Name:				NWI classification:	
Are climatic / hydrologic conditions on the site typical for this tin				(If no, explain in Remarks.)	
Are Vegetation, Soil, or Hydrology signi	ificantly di	isturbed?	ν Are "	'Normal Circumstances" present? Yes No	
Are Vegetation, Soil, or Hydrology natu	rally prob	lematic?	V (If ne	eeded, explain any answers in Remarks.)	
SUMMARY OF FINDINGS - Attach site map she	owina s	samplir	na point le	ocations transects important features	oto
			- Politic		, e.c.
Hydrophytic Vegetation Present? Yes X No _		ls th	ne Sampled	Area	
Hydric Soil Present? Yes No_			in a Wetlan	~	
Wetland Hydrology Present? Yes X No Remarks:					
Tremans.					
VEGETATION					
Ak	solute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Use scientific names.) %	Cover	Species?	Status	Number of Dominant Species	
1					(A)
2				Total Number of Dominant	
3	 -			l /	(B)
4	<u></u>	****		Percent of Dominant Species (1	
Total Cover: Sapling/Shrub Stratum				That Are OBL, FACW, or FAC:	(A/B)
1		-		Prevalence Index worksheet:	
2				Total % Cover of: Multiply by:	
3				OBL species x 1 =	i
4				FACW species x 2 =	
5	71 -			FAC species x 3 =	
Total Cover:	<u>U</u>			FACU species x 4 =	
1. Holcus bunatus	20	·V	FAC	UPL species x 5 =	
2. Lolium perenne :	<u> 20</u> -	-	PAC	Column Totals: (A)	(B)
3. Hypochaeris radiat	16		MI	Prevalence Index = B/A =	
4. Lotus comiculatis	10		FAC	Hydrophytic Vegetation Indicators:	
5. Agrostis stolonifera	10 -		FARW	Dominance Test is >50%	
6. THATIUM repens	15 -	V	FACI	Prevalence Index is ≤3.0 ¹	
7				Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)	g
8	<u> </u>			Wetland Bryophytes ¹	
Total Cover: _ <u>[[</u> Woody Vine Stratum	<u> </u>			Problematic Hydrophytic Vegetation ¹ (Explain)	.
1				¹ Indicators of hydric soil and wetland hydrology mus	
2				be present.	
Total Cover:	0	•		Hydrophytic /	
% Bare Ground in Herb Stratum	_ _			Vegetation Present? Yes No	İ
Remarks:				Present? Yes V No No	
					. [

SOIL M	lartins Slow	nh 9125108	`	LLW+KS Sampling Point: UIQTI-W
Profile Descr	iption: (Describe to the dep	th needed to document the indic	ator or confirm	the absence of indicators.)
Depth .	Matrix	Redox Features		
(inches)	Color (moist) %	AAN IO III.	/pe ¹ Loc ²	<u>Texture</u> Remarks
0-15-	10 Y 2 3/2 90%	104R4/6 1086 (- Mit	OLL (news surface only) YSIL
9-15+	10483280%	10 YP46 2010 (C M	SIL Redox features become much long
<u> </u>				
	· · · · · · · · · · · · · · · · · · ·			
Type: C=Con	centration, D=Depletion, RM=	Reduced Matrix 21 ocation: DI	-Doro Lining D	O-Po-t-Ol
Hydric Soil In	dicators: (Applicable to all L	RRs, unless otherwise noted.)	-Fore Lilling, Ri	C=Root Channel, M=Matrix.
Histosol (A		Sandy Redox (S5)		Indicators for Problematic Hydric Soils ³ :
	edon (A2)	Stripped Matrix (S6)		2 cm Muck (A10)
Black Hist		Loamy Mucky Mineral (F1) (ex	cent MI PA 1)	Red Parent Material (TF2)
3	Sulfide (A4)	Loamy Gleyed Matrix (F2)	cept MLIA ()	Other (Explain in Remarks)
	Below Dark Surface (A11)	Depleted Matrix (F3)		
	Surface (A12)	Redox Dark Surface (F6)		
Sandy Mu	cky Mineral (S1)	Depleted Dark Surface (F7)		³ Indicators of hydrophytic vegetation and
	yed Matrix (S4)	Redox Depressions (F8)		wetland hydrology must be present.
Restrictive La	yer (if present):			music be present.
Type:				
Depth (inch	es):			Hydric Soil Present? Yes No
Remarks:				Hydric Soil Present? Yes No
. '				
	•			
HYDROLOG				<u></u>
	ology Indicators:			Secondary Indicators (2 or more required)
	ors (any one indicator is suffici		<u> </u>	Water-Stained Leaves (B9) (NW coast)
Surface W		Water-Stained Leaves (B9)	(except NW coa	ast) Sparsely Vegetated Concave Surface (B8)
	r Table (A2)	Salt Crust (B11)		Drainage Patterns (B10)
Saturation	·	Aquatic Invertebrates (B13)		Dry-Season Water Table (C2)
Water Mark		Hydrogen Sulfide Odor (C1)		Saturation Visible on Aerial Imagery (C9)
	Deposits (B2)	Oxidized Rhizospheres alon	g Living Roots (0	C3) Geomorphic Position (D2)
Drift Depos	sits (B3)	Presence of Reduced Iron (0		Shallow Aquitard (D3)
	r Crust (B4)	Recent Iron Reduction in Plo	wed Soils (C6)	Frost-Heave Hummocks (D4)
Iron Depos		Stunted or Stressed Plants (FAC-Neutral Test (D5)
Surface So	il Cracks (B6)	Other (Explain in Remarks)	,	Raised Ant Mounds (D6) (LRR A)
Inundation	Visible on Aerial Imagery (B7)	•		Value of the mounds (Bo) (Eith A)
Field Observat	ions:			
Surface Water I	Present? Yes No	Depth (inches):		
Water Table Pro				
Saturation Pres	-			
(includes capilla	ary fringe)			nd Hydrology Present? Yes V No No
Describe Recor	ded Data (stream gauge, mon	itoring well, aerial photos, previous	s inspections). if	available:
	•		, , , , , , , , , , , , , , , , , , , ,	
Remarks:				
DH	D 10-A	. 1 Josephoret		
111	\approx 10-ft from	M Transfer		sainers now + von Survives
Hydr	ology assum	ed based on	prens	ence of redox a veg species.
	0.0			

	stern Mountains, valleys and Coast Region (DRAFT)
Project/Site: Markin Sloush City	County: Eureka / Humbold Sampling Date: 9 25/03 State: CA Sampling Point: U1975-1
Applicant/Owner: RCAA //r man	State: CA Sampling Point: (19T5-1
Investigator(s): 1 xVI V S	ction, Township, Range:
Landform (hillslope, terrace, etc.): allwial plain Lou	cal relief (concave, convex, none): IIVear Slope (%):
· · · · · · · · · · · · · · · · · · ·	Long: Datum:
Soil Map Unit Name:	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year?	
Are Vegetation, Soil, or Hydrology significantly dist	
Are Vegetation, Soil, or Hydrology naturally problem	. —
	impling point locations, transects, important features, etc.
×	mping point routions, transcotts, important routiness, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? Wetland Hydrology Present? Yes No No	within a Wetland? Yes No
Remarks:	
VEGETATION	
	perinant Indicator pecies? Status Number of Deminant Spaniage 1 1 1 1 1 1 1 1 1 1
1	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2	
3	Total Number of Dominant Species Across All Strata: (B)
4	Percent of Dominant Species
Total Cover: Sapling/Shrub Stratum	That Are OBL, FACW, or FAC: (A/B)
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Prevalence Index worksheet:
2. / 10 / 10 / 10 / 10 / 10 / 10 / 10 / 1	
3.	OBI aposics
4.	FACW species x 2 =
5	FAC species x 3 =
Total Cover:	FACU species x 4 =
1. Holcus lanatus 25 1	UPL species x 5 = (B) (B)
2. Agrostis stolonitera 15	Column Totals: (A) (B)
3. Destura avundinacea 15	Prevalence Index = B/A =
1. Dactylis of Omerata 10	Hydrophytic Vegetation Indicators:
5 Tritolium repence 10	Dominance Test is >50%
6. Lolin perent 10	Prevalence Index is ≤3.0¹ Marphalaginal Adaptations¹ (Provide guaranting
8. Hupochaeris Dadiata 5	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
Total Cover: 100	Wetland Bryophytes ¹
Woody Vine Stratum	Problematic Hydrophytic Vegetation ¹ (Explain)
1	Indicators of hydric soil and wetland hydrology must be present.
2	
Total Cover:	Hydrophytic Vegetation
% Bare Ground in Herb Stratum	Present? Yes No
Remarks:	
·	

DepthMatrix	lepth needed to document the indicator or confirm Redox Features	· · · · · · · · · · · · · · · · · · ·
nches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
-15 10YR4/3 1009	The second secon	211
		A B limeter
<u> </u>		
O-Constation D. D. L. C.	2.	
ype: C=Concentration, D=Depletion, R ydric Soil Indicators: (Applicable to a	M=Reduced Matrix. ² Location: PL=Pore Lining, F	
Histosol (A1)		Indicators for Problematic Hydric Soils ³ :
_ Histic Epipedon (A2)	Sandy Redox (S5) Stripped Matrix (S6)	2 cm Muck (A10)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Red Parent Material (TF2) Other (Explain in Remarks)
_ Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
_ Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
_ Thick Dark Surface (A12)	Redox Dark Surface (F6)	
_ Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	³ Indicators of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	wetland hydrology must be present.
estrictive Layer (if present):		
Type:		
Depth (inches):		I Unidate Call Danassic N
emarks:		Hydric Soil Present? Yes No V
emarks:		nyuric Soil Present? Yes No V
emarks: 'DROLOGY		
emarks: DROLOGY etland Hydrology Indicators:		Secondary Indicators (2 or more required)
emarks: DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is su		Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast)
PETT OF THE PROPERTY OF THE PR	Water-Stained Leaves (B9) (except NW co	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Dast) Sparsely Vegetated Concave Surface (B
emarks: DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is so Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) (except NW co Salt Crust (B11)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B Drainage Patterns (B10)
emarks: DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is st Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (except NW company)Salt Crust (B11)Aquatic Invertebrates (B13)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B Drainage Patterns (B10) Dry-Season Water Table (C2)
PETAIL PROPERTY TOROLOGY Tetland Hydrology Indicators: Timary Indicators (any one indicator is stormary Indicator (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	 Water-Stained Leaves (B9) (except NW co Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) 	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
emarks: DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is su _ Surface Water (A1) _ High Water Table (A2) _ Saturation (A3) _ Water Marks (B1) _ Sediment Deposits (B2)	 Water-Stained Leaves (B9) (except NW constructions) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots 	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 (C3) Geomorphic Position (D2)
emarks: DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is su _ Surface Water (A1) _ High Water Table (A2) _ Saturation (A3) _ Water Marks (B1) _ Sediment Deposits (B2) _ Drift Deposits (B3)	Water-Stained Leaves (B9) (except NW compared Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3)
rDROLOGY retland Hydrology Indicators: rimary Indicators (any one indicator is standard in the standard in th	Water-Stained Leaves (B9) (except NW comparison Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4)
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PERMARKS: PERMARKS:	Water-Stained Leaves (B9) (except NW colors) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (E Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4)
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WETLAND DETERMINATION DATA FORM	l – Western	Mountair	is, Valleys and Coa	ist Region (D	RAFT)
Project/Site: Martin Slough	City/Coun	ry: Eurck	a/Humbold+ State: CA	Sampling Date:	9/25/0
Applicant/Owner: RCAA / OVroman			State: CA	Sampling Point:	41975-1
Investigator(s): LW/KS	Section, T	ownship, Rai	nge:		
Landform (hillslope, terrace, etc.): 4 wia Nam	Local reli	ef (concave, o	convex, none): 100	ar si	ope (%): 🔼
Subregion (LRR): Lat:					
Soil Map Unit Name:			NWI classific	ation:	
Are climatic / hydrologic conditions on the site typical for this time o	of year? Yes _	<u></u> №_	(If no, explain in R	temarks.)	
Are Vegetation, Soil, or Hydrology significa	ntly disturbed?	Are "	Normal Circumstances" p	oresent? Yes 🗋	<u> </u>
Are Vegetation, Soil, or Hydrology naturally	problematic?	(If ne	eded, explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS - Attach site map show	ing sampli	ng point le	ocations, transects	, important f	eatures, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes X No Yes X No No No No No No No No No No No No No	_ wit	the Sampled thin a Wetlan	Area ves ves	× No	
VEGETATION					
	ute Dominar		Dominance Test work	1	ر
1. NA			Number of Dominant S That Are OBL, FACW,		<u> </u>
2			Total Number of Domin		1
3			Species Across All Stra		1 (B)
4 Total Cover: Sapling/Shrub Stratum			Percent of Dominant Sp That Are OBL, FACW,		(A/B)
1			Prevalence Index wor	ksheet:	
2			Total % Cover of:	Multip	oly by:
3			OBL species	x 1 =	
4			FACW species		
5			FAC species		
Total Cover:			FACU species		
1. Acroch's atribonitera 50	$^{\circ}$	FACW	UPL species Column Totals:		
2 Fastrica avundinacea 21	0	FAC-	Column Totals:	(A)	(B)
3. Holcus lanatus 10	0	FAC	Prevalence Index	= B/A =	
4 Dacty is glamerata =	<u> </u>	FACU	Hydrophytic Vegetation	on Indicators:	
5. Rumex Crispus	<u> </u>	FACW-	Dominance Test is		
6			Prevalence Index i		
7			Morphological Ada	ıptations¹ (Provide s or on a separate	e supporting
8			Wetland Bryophyte		s sneety
Total Cover: 90	<u>5 </u>		Problematic Hydro		ı¹ (Explain)
1			¹ Indicators of hydric soi be present.		
Total Cover:			Hydrophytic Vegetation Present? Ye	es No_	
Remarks:	,				
	•				

Profile Desi	cription: (Describe	to the depth				or confirm	the absence	of indicators	.)	
Depth	<u>Matrix</u>			x Features						
(inches)	Color (moist)	- % -	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	<u> </u>
0-157	101575	_45%_	10115-16	090	<u> </u>	14	011-	<u> (107</u> R	27/2	<u>) </u>
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		·								
	oncentration, D=De					e Lining, R	C=Root Char	nel, M=Matrix.		
lydric Soil	Indicators: (Applie	cable to all Li	RRs, unless other	wise note	d.)		Indicat	ors for Proble	matic Hydi	ic Soils³:
Histoso		_	_ Sandy Redox (S	•				m Muck (A10)		
	pipedon (A2)		_ Stripped Matrix				-	d Parent Mater		
	istic (A3)	_	_ Loamy Mucky M			MLRA 1)	Oth	er (Explain in I	Remarks)	
	en Sulfide (A4) d Below Dark Surfac	_ 	Loamy Gleyed Notrix							
	ark Surface (A12)	JC (ATT)	Redox Dark Sur							
	Mucky Mineral (S1)		Depleted Dark S		7)		3Indicat	ors of hydrophy	vtic vegetat	ion and
Sandy (Gleyed Matrix (S4)		Redox Depress	-				and hydrology		
Restrictive	Layer (if present):									
Type:			<u> </u>						/	
Depth (in	iches):	14 1					Hydric Soi	l Present?	Yes <u>√</u>	No
3l							_			
LCU.	Chron	nac W	/redox	nea	(S)	vrfac	J	nydrig	530	J
la		nac W	Y redox	nea	rsi	vrfac	J	hydric	250	
JCU.)GY		Y redox	rea	rsi	vrfac		J	- X	
YDROLO	DGY rdrology Indicators	:		rea	(SI	vrfac	Second	ary Indicators		
YDROLC Wetland Hy	OGY rdrology Indicators icators (any one indi	:	ent)				SecondWa	ary Indicators of	aves (B9) (NW coast)
YDROLO Wetland Hy Primary Indi Surface	OGY rdrology Indicators icators (any one indi v Water (A1)	:	ent) Water-Staine	d Leaves (Second War	ary Indicators of ter-Stained Learsely Vegetate	aves (B9) (led Concave	NW coast)
YDROLO Vetland Hy Primary Indi Surface High W	OGY rdrology Indicators icators (any one indi v Water (A1) ater Table (A2)	:	ent) Water-Staine Salt Crust (B	d Leaves (B9) (exc		Second War Dast) Dra	ary Indicators (ter-Stained Le arsely Vegetate inage Patterns	aves (B9) (led Concave (B10)	NW coast) Surface (B8)
YDROLO Wetland Hy Primary Indi Surface High W Saturat	OGY rdrology Indicators icators (any one indi Water (A1) ater Table (A2) ion (A3)	:	ent) Water-Staine Salt Crust (B Aquatic Inver	d Leaves (11) tebrates (E	B9) (exc 313)		Second War Drast) Dra Dry	ary Indicators of ter-Stained Learsely Vegetate sinage Patterns r-Season Wate	aves (B9) (led Concave (B10) r Table (C2	NW coast) Surface (B8)
YDROLC Wetland Hy Primary Indi Surface High W Saturat Water M	oGY rdrology Indicators icators (any one indi Water (A1) ater Table (A2) ion (A3) Marks (B1)	:	ent) Water-Staine Salt Crust (B Aquatic Inver Hydrogen Su	d Leaves (11) tebrates (E	B9) (exc 313) (C1)	ept NW co	Second War Draw Draw Dry Sat	ary Indicators of ter-Stained Learsely Vegetate sinage Patterns -Season Wate uration Visible	aves (B9) (led Concave s (B10) r Table (C2 on Aerial Ir	NW coast) Surface (B8)
YDROLO Wetland Hy Primary Indi Surface High W Saturat Water M Sedime	ordrology Indicators icators (any one indicators (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2)	:	ent) Water-Staine Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi	d Leaves (11) tebrates (E Ilfide Odor zospheres	B9) (exc 313) (C1) along Liv	ept NW co	Second War Drast) Spa Dry Sat (C3) Ge	ary Indicators of ter-Stained Learsely Vegetate sinage Patterns -Season Wate uration Visible omorphic Posit	aves (B9) (led Concave (B10) r Table (C2 on Aerial Ir	NW coast) Surface (B8)
YDROLO Wetland Hy Primary Indi Surface High W Saturat Water M Sedime Drift De	ordrology Indicators icators (any one indicators (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3)	:	ent) Water-Staine Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhii Presence of I	d Leaves (11) tebrates (E Ilfide Odor zospheres Reduced Ir	B9) (exc 313) (C1) along Liv on (C4)	ept NW co	Second War Draw Draw Dry Sat (C3) Ge Sh	ary Indicators of ter-Stained Learsely Vegetate inage Patterns -Season Wate curation Visible omorphic Positallow Aquitard	aves (B9) (led Concave (B10) r Table (C2 on Aerial Ir ion (D2) (D3)	NW coast) Surface (B8) magery (C9)
YDROLO Wetland Hy Primary Indi Surface High W Saturat Water M Sedime Drift De Algai M	ordrology Indicators icators (any one indicators (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) at or Crust (B4)	:	ent) Water-Staine Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhii Presence of I	d Leaves (11) tebrates (E Ilfide Odor zospheres Reduced Ir Reduction i	B9) (exc 313) (C1) along Liv ron (C4) n Plowed	ept NW coving Roots	Second Wa past) Dra Dry Sat (C3) Ge Sh:) Fro	ary Indicators of ter-Stained Learsely Vegetate inage Patterns -Season Wate uration Visible omorphic Positiallow Aquitard st-Heave Hum	aves (B9) (led Concave (B10) r Table (C2 on Aerial Ir ion (D2) (D3) mocks (D4)	NW coast) Surface (B8) magery (C9)
YDROLC Vetland Hy Primary Indi Surface High W Saturat Water M Sedime Drift De Algai M Iron De	ordrology Indicators icators (any one indicators (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3)	:	ent) Water-Staine Salt Crust (Bound of the context	d Leaves (11) tebrates (E Ifide Odor zospheres Reduced Ir Reduction i tressed Pla	B9) (exc 313) (C1) along Liv ron (C4) in Plower ants (D1)	ept NW coving Roots	Second War Drast) Spi Dra C(C3) Ge Shi Fro FA	ary Indicators of ter-Stained Learsely Vegetate inage Patterns r-Season Wate ouration Visible omorphic Positiallow Aquitard st-Heave Hum C-Neutral Test	aves (B9) (led Concave s (B10) r Table (C2 on Aerial Ir ion (D2) (D3) mocks (D4) (D5)	NW coast) Surface (B8) magery (C9)
YDROLC Vetland Hy Primary Indi Surface High W Saturat Water M Sedime Drift De Algai M Iron De Surface	ordrology Indicators icators (any one indicators (any one indicators) we Water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) iat or Crust (B4) posits (B5)	: cator is suffici	ent) Water-Staine Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhii Presence of I	d Leaves (11) tebrates (E Ifide Odor zospheres Reduced Ir Reduction i tressed Pla	B9) (exc 313) (C1) along Liv ron (C4) in Plower ants (D1)	ept NW coving Roots	Second War Drast) Spi Dra C(C3) Ge Shi Fro FA	ary Indicators of ter-Stained Learsely Vegetate inage Patterns -Season Wate uration Visible omorphic Positiallow Aquitard st-Heave Hum	aves (B9) (led Concave s (B10) r Table (C2 on Aerial Ir ion (D2) (D3) mocks (D4) (D5)	NW coast) Surface (B8) magery (C9)
YDROLC Wetland Hy Primary Indi Surface High W Saturat Water M Sedime Drift De Algai M Iron De Surface Inundat	ordrology Indicators icators (any one indicators (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) at or Crust (B4) posits (B5) e Soil Cracks (B6) ition Visible on Aerial	: cator is suffici	ent) Water-Staine Salt Crust (Bound of the context	d Leaves (11) tebrates (E Ifide Odor zospheres Reduced Ir Reduction i tressed Pla	B9) (exc 313) (C1) along Liv ron (C4) in Plower ants (D1)	ept NW coving Roots	Second War Drast) Spi Dra C(C3) Ge Shi Fro FA	ary Indicators of ter-Stained Learsely Vegetate inage Patterns r-Season Wate ouration Visible omorphic Positiallow Aquitard st-Heave Hum C-Neutral Test	aves (B9) (led Concave s (B10) r Table (C2 on Aerial Ir ion (D2) (D3) mocks (D4) (D5)	NW coast) Surface (B8) magery (C9)
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	estern Mountains, Valleys and Coast Region (DRAFT)
Project/Site: Mrs Stores Cit	y/County: Fuireka/Humbold Sampling Date: 9(26/08
Applicant/Owner: 1CAA / School or o	State: OA Sampling Point: W20T2-U
Investigator(s): LW KS	ction, Township, Range:
Landform (hillslope, terrace, etc.): TOE Wills WAR Lo	cal relief (concave, convex, none): Slope (%): 3
V	Long: Datum:
	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year?	
Are Vegetation, Soil, or Hydrology significantly dis	\
Are Vegetation, Soil, or Hydrology naturally proble	
SUMMARY OF FINDINGS – Attach site map showing sa	ampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks:	Is the Sampled Area within a Wetland? Yes No
•	
VEGETATION	
Tree Stratum (Use scientific names.) % Cover S	ominant Indicator pecies? Status Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2	Total Number of Dominant
4	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum	
1. NONO.	
2	
3. 4.	
5.	FAC species x 3 =
Total Cover:	FACU species x 4 =
Herb Stratum	UPL species x 5 =
1. Festica wundingreae 60	
2. Anthoxanthum odoration 25.	<u> </u>
3. Plantago lanceolata 5	Prevalence Index = B/A =
4. Prinella valoris 5	Hydrophytic Vegetation Indicators:
5. (IVSium vulgaris 5	FACU Dominance Test is >50%
6. Hypochaeris Vadiata 5	Prevalence Index is ≤3.0¹
7	Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
8	Wetland Bryophytes ¹
Woody Vine Stratum	Problematic Hydrophytic Vegetation ¹ (Explain)
1.	¹Indicators of hydric soil and wetland hydrology must
2.	be present.
Total Cover:	Hydrophytic
	Vegetation
% Bare Ground in Herb Stratum	Present? Yes No
Remarks:	
	,

Depth Matrix		Redo	x Features			
(inches) Color (moist)	%	Color (moist)	<u>% Type</u> 1	Loc ²	<u>Texture</u>	Remarks
0-13 104R4/2	2100%				٢	Sail mixedu
12-15 2544/2	85%	101R4/6	150/c C	\overline{M}	1_	more clay than pr
	_ <u></u>	10 12 10	- <u>- 1379</u> —			THE CITY WILL A
	·					
			·			
¹ Type: C=Concentration, D=De			² Location: PL=Por	 e Lining, R		
Hydric Soil Indicators: (Appli	cable to all Lf		•			ors for Problematic Hydric Soils ³ :
Histosol (A1)	_	_ Sandy Redox (S	•			n Muck (A10)
Histic Epipedon (A2) Black Histic (A3)	•	Stripped Matrix Loamy Mucky N	(So) /lineral (F1) (except	MIRA 1		l Parent Material (TF2) er (Explain in Remarks)
Hydrogen Sulfide (A4)		_ Loamy Gleyed I		WILLIAM 1)	Our	or (Explain in Nemarks)
Depleted Below Dark Surfa	ce (A11)	Depleted Matrix	(F3)		"	
Thick Dark Surface (A12)	. /	_ Redox Dark Sui	rface (F6) へった しょ	in top	12	
Sandy Mucky Mineral (S1)		_ Depleted Dark S	Surface (F7)		³ Indicate	ors of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)	<u> </u>	_ Redox Depress	ions (F8)		wetla	nd hydrology must be present.
Restrictive Layer (if present):						
Type:						
Depth (inches):Remarks:					Hydric Soil	Present? Yes No
			···		Hydric Soil	Present? Yes No V
					Hydric Soil	Present? Yes No
Remarks:						Present? Yes No
Remarks: YDROLOGY Wetland Hydrology Indicators Primary Indicators (any one indi	:				Seconda	ary Indicators (2 or more required) er-Stained Leaves (B9) (NW coas t)
YDROLOGY Wetland Hydrology Indicators Primary Indicators (any one indi Surface Water (A1)	:	Water-Staine	d Leaves (B9) (exce	ept NW co	<u>Seconda</u> Wal ast) Spa	ary Indicators (2 or more required) er-Stained Leaves (B9) (NW coast) rsely Vegetated Concave Surface (l
YDROLOGY Wetland Hydrology Indicators Primary Indicators (any one indi Surface Water (A1) High Water Table (A2)	:	Water-Staine Salt Crust (B	11)	ept NW co	<u>Seconda</u> Wat ast) Spa Dra	ary Indicators (2 or more required) er-Stained Leaves (B9) (NW coast) rsely Vegetated Concave Surface (I nage Patterns (B10)
YDROLOGY Wetland Hydrology Indicators Primary Indicators (any one indi Surface Water (A1) High Water Table (A2) Saturation (A3)	:	Water-Staine Salt Crust (B Aquatic Inver	11) tebrates (B13)	ept NW co	<u>Seconda</u> Wat ast) Spa Dra Dry.	ery Indicators (2 or more required) er-Stained Leaves (B9) (NW coast) rsely Vegetated Concave Surface (I nage Patterns (B10) Season Water Table (C2)
YDROLOGY Wetland Hydrology Indicators Primary Indicators (any one indi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	:	Water-Staine Salt Crust (B' Aquatic Inver Hydrogen Su	11) tebrates (B13) Ifide Odor (C1)		<u>Seconda</u> Wat ast) Spa Dra Dry Sati	ery Indicators (2 or more required) er-Stained Leaves (B9) (NW coast ; rsely Vegetated Concave Surface (Inage Patterns (B10) Season Water Table (C2) uration Visible on Aerial Imagery (C5
YDROLOGY Wetland Hydrology Indicators Primary Indicators (any one indi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	:	Water-Staine Salt Crust (B' Aquatic Inver Hydrogen Su Oxidized Rhiz	11) tebrates (B13) Ifide Odor (C1) zospheres along Liv		Seconda 	ary Indicators (2 or more required) er-Stained Leaves (B9) (NW coast) rsely Vegetated Concave Surface (Inage Patterns (B10) Season Water Table (C2) uration Visible on Aerial Imagery (Cs) morphic Position (D2)
YDROLOGY Wetland Hydrology Indicators Primary Indicators (any one indi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	:	Water-Staine Salt Crust (B' Aquatic Inver Hydrogen Su Oxidized Rhiz	11) tebrates (B13) lfide Odor (C1) zospheres along Liv Reduced Iron (C4)	ing Roots (Seconda Seconda Spa ast) Spa Dra Dry Satu (C3) Gec Sha	ary Indicators (2 or more required) er-Stained Leaves (B9) (NW coast) rsely Vegetated Concave Surface (I nage Patterns (B10) Season Water Table (C2) uration Visible on Aerial Imagery (Cs) morphic Position (D2) Illow Aquitard (D3)
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YDROLOGY Wetland Hydrology Indicators Primary Indicators (any one indi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Field Observations: Surface Water Present?	cator is sufficie	Water-Staine Salt Crust (B' Aquatic Inver Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Stunted or St Other (Explai	ntebrates (B13) Ifide Odor (C1) Ifide Odor (C1) Itospheres along Liv Reduced Iron (C4) Reduction in Plowed Iressed Plants (D1) In in Remarks) In thes):	ing Roots (Soils (C6) (LRR A)	Seconds 	ary Indicators (2 or more required) er-Stained Leaves (B9) (NW coast) rsely Vegetated Concave Surface (I nage Patterns (B10) Season Water Table (C2) uration Visible on Aerial Imagery (C3 umorphic Position (D2) Illow Aquitard (D3) st-Heave Hummocks (D4) C-Neutral Test (D5)
YDROLOGY Wetland Hydrology Indicators Primary Indicators (any one indi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Field Observations: Surface Water Present?	: cator is sufficie Imagery (B7) Yes No Yes No	Water-Staine Salt Crust (B' Aquatic Inver Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Stunted or St Other (Explai	ntebrates (B13) Ifide Odor (C1) ing Roots (Soils (C6) (LRR A)	Seconda Seconda Spa Dra Dry Satu (C3) Gec Sha Fros Rais	ery Indicators (2 or more required) er-Stained Leaves (B9) (NW coast) rsely Vegetated Concave Surface (I nage Patterns (B10) Season Water Table (C2) uration Visible on Aerial Imagery (Cs) uration Position (D2) Illow Aquitard (D3) st-Heave Hummocks (D4) C-Neutral Test (D5) sed Ant Mounds (D6) (LRR A)	
YDROLOGY Wetland Hydrology Indicators Primary Indicators (any one indi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Field Observations: Surface Water Present? Water Table Present?	: cator is sufficie Imagery (B7) Yes No Yes No	Water-Staine Salt Crust (B' Aquatic Inver Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Stunted or St Other (Explai	ntebrates (B13) Ifide Odor (C1) Ifide Odor (C1) Itospheres along Liv Reduced Iron (C4) Reduction in Plowed Iressed Plants (D1) In in Remarks) In thes):	ing Roots (Soils (C6) (LRR A)	Seconda Seconda Spa Dra Dry Satu (C3) Gec Sha Fros Rais	ary Indicators (2 or more required) er-Stained Leaves (B9) (NW coast) rsely Vegetated Concave Surface (I nage Patterns (B10) Season Water Table (C2) uration Visible on Aerial Imagery (C3 umorphic Position (D2) Illow Aquitard (D3) st-Heave Hummocks (D4) C-Neutral Test (D5)
YDROLOGY Wetland Hydrology Indicators Primary Indicators (any one indi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Field Observations: Surface Water Present?	: cator is sufficie Imagery (B7) Yes No Yes No Yes No	Water-Staine Salt Crust (B' Aquatic Inver Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Stunted or St Other (Explain Depth (inc	ntth) tebrates (B13) lfide Odor (C1) zospheres along Liv Reduced Iron (C4) Reduction in Plowed ressed Plants (D1) in in Remarks) ches): ches):	ing Roots (Soils (C6) (LRR A)	Seconda Seconda Wat ast) Spa Dra Dry Satu (C3) Gec Sha Fros Rais	ery Indicators (2 or more required) er-Stained Leaves (B9) (NW coast) rsely Vegetated Concave Surface (I nage Patterns (B10) Season Water Table (C2) uration Visible on Aerial Imagery (Cs) uration Position (D2) Illow Aquitard (D3) st-Heave Hummocks (D4) C-Neutral Test (D5) sed Ant Mounds (D6) (LRR A)
YDROLOGY Wetland Hydrology Indicators Primary Indicators (any one indi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Field Observations: Surface Water Present? Water Table Present? Saturation Present?	: cator is sufficie Imagery (B7) Yes No Yes No Yes No	Water-Staine Salt Crust (B' Aquatic Inver Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Stunted or St Other (Explain Depth (inc	ntth) tebrates (B13) lfide Odor (C1) zospheres along Liv Reduced Iron (C4) Reduction in Plowed ressed Plants (D1) in in Remarks) ches): ches):	ing Roots (Soils (C6) (LRR A)	Seconda Seconda Wat ast) Spa Dra Dry Satu (C3) Gec Sha Fros Rais	ery Indicators (2 or more required) er-Stained Leaves (B9) (NW coast) rsely Vegetated Concave Surface (I nage Patterns (B10) Season Water Table (C2) uration Visible on Aerial Imagery (Cs) uration Position (D2) Illow Aquitard (D3) st-Heave Hummocks (D4) C-Neutral Test (D5) sed Ant Mounds (D6) (LRR A)

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys and Coast Region (DRAFT) City/County: _____ Sampling Date: 9/26/08 State: Sampling Point: U.20T2-Applicant/Owner: ___ Section, Township, Range: ____ Investigator(s): _____ Local relief (concave, convex, none): 1 rear Slope (%): Landform (hillslope, terrace, etc.): The Subregion (LRR): ____ ____ Lat: _____ Long: _____ NWI classification: Soil Map Unit Name: _____ Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No _____ (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? No _____ Are "Normal Circumstances" present? Yes ____ No ____ Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? N (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. × No ____ Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: **VEGETATION** Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Use scientific names.) % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species Across All Strata: (B) Percent of Dominant Species Total Cover: That Are OBL, FACW, or FAC: Sapling/Shrub Stratum Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x 1 = _____ FACW species x 2 = FAC species _____ x3=____ FACU species _____ x 4 = _____ Total Cover: Herb Stratum UPL species _____ x 5 = ____ 1. Fostuca arundinaceae Column Totals: _____ (A) ____ (B) 2. Anthoxanthum oforotom Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.01 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) ___ Wetland Bryophytes¹ Total Cover: 100 Problematic Hydrophytic Vegetation¹ (Explain) Woody Vine Stratum ¹Indicators of hydric soil and wetland hydrology must be present. Hydrophytic Vegetation % Bare Ground in Herb Stratum Present? Remarks:

soil Martins Slovan 9/26/08	LLW+ KS Sampling Point: U2072
Profile Description: (Describe to the depth needed to document the indicator or confirm	m the absence of indicators.)
Depth Matrix Redox Features	Testore
(inches) Color (moist) % Color (moist) % Type¹ Loc²	Texture Remarks
0-4 10483/2 98% 10483/6 2% C RC	
14-15 2,5/3/2 80% INVR3/6 2016 C M	<u> </u>
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, I	RC=Root Channel, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1) Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2) Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1	
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	
Depleted Below Dark Surface (A11)	
Thick Dark Surface (A12) Redox Dark Surface (F6)	
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7)	³ Indicators of hydrophytic vegetation and
Sandy Gleyed Matrix (S4) Redox Depressions (F8)	wetland hydrology must be present.
Restrictive Layer (if present):	
Type:	
Depth (inches):	Hydric Soil Present? Yes V No No
Remarks: Lieu Chroma WI redo near Surface	shirthic Soul
TOO GUILLIOU OU VECTES NOW DO LOCA	- Tipper Coop
)
HYDROLOGY	
	_
Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient)	Water-Stained Leaves (B9) (NW coast)
Surface Water (A1) Water-Stained Leaves (B9) (except NW c	oast) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Salt Crust (B11)	Drainage Patterns (B10)
Saturation (A3) Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)
Sediment Deposits (B2) Oxidized Rhizospheres along Living Roots	
	• • • • • • • • • • • • • • • • • • • •
Drift Deposits (B3) Presence of Reduced Iron (C4)	Shallow Aquitard (D3)
Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Plowed Soils (C6	Shallow Aquitard (D3) Frost-Heave Hummocks (D4)
Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5)
Drift Deposits (B3) Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6 Iron Deposits (B5) Surface Soil Cracks (B6) Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Shallow Aquitard (D3) Frost-Heave Hummocks (D4)
Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Plowed Soils (C6 Iron Deposits (B5) Stunted or Stressed Plants (D1) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5)
Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Plowed Soils (C6 Iron Deposits (B5) Stunted or Stressed Plants (D1) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Field Observations:	Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5)
Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Plowed Soils (C6 Iron Deposits (B5) Stunted or Stressed Plants (D1) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Field Observations: Surface Water Present? Yes No Depth (inches):	Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5)
Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Plowed Soils (C6 Iron Deposits (B5) Stunted or Stressed Plants (D1) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Field Observations:	Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5)
Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Plowed Soils (C6 Iron Deposits (B5) Stunted or Stressed Plants (D1) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Field Observations: Surface Water Present? Yes No Depth (inches): Depth (inches):	Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5)
Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Plowed Soils (C6 Iron Deposits (B5) Stunted or Stressed Plants (D1) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Wet (includes capillary fringe)	Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) land Hydrology Present? Yes No
Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Plowed Soils (C6 Iron Deposits (B5) Stunted or Stressed Plants (D1) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Wet	Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) land Hydrology Present? Yes No
Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Plowed Soils (C6 Iron Deposits (B5) Stunted or Stressed Plants (D1) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Wet (includes capillary fringe)	Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) land Hydrology Present? Yes No
Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Plowed Soils (C6 Iron Deposits (B5) Stunted or Stressed Plants (D1) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Wet (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections)	Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) land Hydrology Present? Yes No
Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Plowed Soils (C6 Iron Deposits (B5) Stunted or Stressed Plants (D1) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Wet (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections)	Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) land Hydrology Present? Yes No
Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Plowed Soils (C6 Iron Deposits (B5) Stunted or Stressed Plants (D1) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Wet (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections)	Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) land Hydrology Present? Yes No

WEILAND DETERMINATION DATA FORM – We	estern Mountair	ns, Valleys and Coast R	legion (DRAFT)
Project/Site: May Hy Slough Cit	v/County: Flux	eka.CA sam	inling Date 9 30 08
Applicant/Owner: KOAA / Yoman	· •		
Investigator(s): LW K5	ction, Township, Rai	nae:	1
Landform (hillslope, terrace, etc.): walstone Lo	ocal relief (concave, o	convex, none): Conco	Je Slope (%): 12
Subregion (LRR): Lat:			
Soil Map Unit Name:		NWI classification:	
Soil Map Unit Name:Are climatic / hydrologic conditions on the site typical for this time of year?	Yes No	(If no, explain in Remark	ks.)
Are Vegetation, Soil, or Hydrology significantly dis			\ /
Are Vegetation, Soil, or Hydrology naturally proble			• • •
SUMMARY OF FINDINGS – Attach site map showing sa		•	•
Z/		ocations, transects, imp	Joriani leatures, etc.
Hydrophytic Vegetation Present? Yes No	is the Sampled	Area	
Hydric Soil Present? Yes No	within a Wetlan		No <u>X</u>
Wetland Hydrology Present? Yes No _X			_
Tremaine.			
VEGETATION			
	ominant Indicator Species? Status	Dominance Test worksheet	·
1		Number of Dominant Species That Are OBL, FACW, or FA	
2			J (A)
3		Total Number of Dominant Species Across All Strata:	(B)
4		Percent of Dominant Species	110
Total Cover: Sapling/Shrub Stratum		That Are OBL, FACW, or FAC	
1		Prevalence Index workshee	et:
2		Total % Cover of:	Multiply by:
3		OBL species	
4		FACW species	
5		FACILIPACION	
Herb Stratum	. 73	FACU species UPL species	x 4 = x 5 =
1. Agrostis stolonitura 20_	7 FACW	Column Totals:	· · · · · · · · · · · · · · · · · · ·
2. Montago ancedata 10	T EVE-		
3. Arhill of milletotion 10	7 Tivin	Prevalence Index = B/A	
4. Piterialine as urlinum. 10	Y FACU	Hydrophytic Vegetation Ind	
5. Anthoxanthum odoranim 10 _	Y FACY	N Dominance Test is >50% — Prevalence Index is ≤3.0	•
7. FORMISETUM A CVENSE 5	Z AC	Morphological Adaptation	
8.		data in Remarks or or	
Total Cover: 75		Wetland Bryophytes ¹	
Woody Vine Stratum		Problematic Hydrophytic	- , , ,
1		¹ Indicators of hydric soil and was present.	wetland hydrology must
Z			
Total Cover:		Hydrophytic Vegetation	X
% Bare Ground in Herb Stratum		Present? Yes	No <u>/ \</u>
Remarks: 12' upslope from wetland	ine.		
•			

SOIL Martins Slavi	0 9 130/08 Synni	
Profile Description: (Describe to the del	th needed to document the indicator or o	confirm the absence of indicators.)
DepthMatrix	Redox Features	·
(inches) Color (moist) %		<u>_oc² Texture Remarks</u>
Q-8 10 YR 3/1 100%		SIL
8-15 104R3/2 100%		
		<u> </u>
1Tuno: C=Congentration D=Davistics DM		
¹ Type: C=Concentration, D=Depletion, RM= Hydric Soil Indicators: (Applicable to all	Reduced Matrix. *Location: PL=Pore Lin	ning, RC=Root Channel, M=Matrix.
	•	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2) Black Histic (A3)	Stripped Matrix (S6)	Red Parent Material (TF2)
Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1) (except MLLoamy Gleyed Matrix (F2)	.RA 1) Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	³ Indicators of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	wetland hydrology must be present.
Restrictive Layer (if present):		y regy mass so procent.
Type:	<u> </u>	
Depth (inches):		Hydric Soil Present? Yes No
Remarks:		
Dark matrix color	from surface horize	on due to high organic
No redox preser	t	commanure.
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is suffice	ient)	
Surface Water (A1)	Water-Stained Leaves (B9) (except N	Water-Stained Leaves (B9) (NW coast)
High Water Table (A2)	Salt Crust (B11)	, , , , , , , , , , , , , , , , , ,
Saturation (A3)	Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2)		Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)		Roots (C3) Geomorphic Position (D2)
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)Recent Iron Reduction in Plowed Soil	Shallow Aquitard (D3)
iron Deposits (B5)		• • • • • • • • • • • • • • • • • • • •
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LRF	
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Raised Ant Mounds (D6) (LRR A)
Field Observations:		
Surface Water Present? Yes N		``
Water Table Present? Yes N		
Saturation Present? Yes N	o V Depth (inches):	Wetland Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, mor	·	
besone resoluce bata (stream gauge, mor	morning well, aerial priotos, previous irispecti	ons), if available:
Domorkov		
Remarks:	,	
Pita 12-A fro	om transect.	

soil Martins Shun'		LLW+KS Sampling Point: U21T1
Profile Description: (Describe to the dept	needed to document the indicator or o	confirm the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist)	_oc²
0-6 10 YR 2/1 100%		SIL
6-12 104R2/1	10YR3/4	SILISICL Soil MIXQU
12 - 15+ 104R3/3 85%75	54R5(12.5Y27(5616%) C M	SILISICL Soil MIXON
12 10 10 10 10	211110	
	·	
¹ Type: C=Concentration, D=Depletion, RM=F	Reduced Matrix. ² Location: PL=Pore Li	ining, RC=Root Channel, M=Matrix.
Hydric Soil Indicators: (Applicable to all L		Indicators for Problematic Hydric Soils ³ :
	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MI	
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	, ,
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	³ Indicators of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	wetland hydrology must be present.
Restrictive Layer (if present):		
Type:		
Depth (inches):		Hydric Soil Present? Yes No
Remarks:		
Soil mixing - no	tredox low c	hromain soltare
in from Ora	Capic Parcitter	SOP NOUSON
15 110110	Joseph Milliams) >00 V(O(1208)
no reduce	d chroma ir	1 matrix
HYDROLOGY		
		Secondary Indicators (2 or more required)
Wetland Hydrology Indicators:	A	· · · · · · · · · · · · · · · · · · ·
Primary Indicators (any one indicator is suffici		Water-Stained Leaves (B9) (NW coast)
Surface Water (A1)	Water-Stained Leaves (B9) (except	. —
High Water Table (A2)	Salt Crust (B11)	Drainage Patterns (B10)
Saturation (A3)	Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)
Sediment Deposits (B2)	Oxidized Rhizospheres along Living	
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)
Algal Mat or Crust (B4)	Recent Iron Reduction in Plowed Sc	·
Iron Deposits (B5)	Stunted or Stressed Plants (D1) (LR	
Surface Soil Cracks (B6)	Other (Explain in Remarks)	Raised Ant Mounds (D6) (LRR A)
Inundation Visible on Aerial Imagery (B7)		
Field Observations:	/ /	
Surface Water Present? Yes N	o Depth (inches):	
Water Table Present? Yes N	o Depth (inches):	
Saturation Present? Yes N	o V Depth (inches):	Wetland Hydrology Present? Yes No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspec	ctions), if available:
Domorko:		
Remarks:	1	
*Pit ~ 2-ft from	om transect.	· ·

Applicant/Owner: Investigator(s): Landform (hillslope, terrace, etc.): Subregion (LRR): Soil Map Unit Name: Are climatic / hydrologic conditions on the site typical for this time of year? Yes Are Vegetation Soil Are Vegetation Soil Or Hydrology naturally problematic? SUMMARY OF FINDINGS — Attach site map showing sampling po	Cave, convex, none): CONCOUR. Slope (%): 8-1 Long: Datum: NWI classification: No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.) Dint locations, transects, important features, etc.
Investigator(s):	ip, Range:cave, convex, none): Slope (%): Slope (%): Datum: NWI classification: No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.) Dint locations, transects, important features, etc.
Subregion (LRR):	NWI classification: No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.) Dint locations, transects, important features, etc.
Subregion (LRR):	NWI classification: No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.) Dint locations, transects, important features, etc.
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.) pint locations, transects, important features, etc.
Are Vegetation, Soil, or Hydrology significantly disturbed? \\ Are Vegetation, Soil, or Hydrology naturally problematic? \\ SUMMARY OF FINDINGS - Attach site map showing sampling possible for the sample of the sample	Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.) Dint locations, transects, important features, etc.
Are Vegetation, Soil, or Hydrology naturally problematic? \ SUMMARY OF FINDINGS - Attach site map showing sampling possible for the sample of the sampl	(If needed, explain any answers in Remarks.) pint locations, transects, important features, etc.
SUMMARY OF FINDINGS — Attach site map showing sampling portation Present? Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: SWMLd Wetland Wetland Wetland Tree Stratum (Use scientific names.) 1. Absolute % Cover Species? State of the stratum of t	pint locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: ASSWARD WETLAND Tree Stratum (Use scientific names.) 1. Alphas Yubra 2. 3. 4. Sapling/Shrub Stratum 1. Kubr/S discolor 2. 3. 4. Total Cover: Herb Stratum 1. Pola Gover 1. Pola Gover: Herb Stratum 1. Fola Gover: Herb St	mpled Area
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: ASSWARD WETLAND Tree Stratum (Use scientific names.) 1. Alphas Yubra 2. 3. 4. Sapling/Shrub Stratum 1. Kubr/S discolor 2. 3. 4. Total Cover: Herb Stratum 1. Pola Gover 1. Pola Gover: Herb Stratum 1. Fola Gover: Herb St	mpled Area
Tree Stratum (Use scientific names.) 1. Absolute % Cover Species? Sta 1. Absolute % Cover Species? Sta 2. 3. 4.	
Tree Stratum (Use scientific names.) 1. Alwas rubra 2	
1. Alms rubra 2. 3. 4. Sapling/Shrub Stratum 1. Kubi/S discolor 2. 3. 4. 5. Total Cover: Herb Stratum 1. Folcus lands S 20 V F 2. Stockus 3. Scirous microcarous IS V Ol 4. Equisetim arvense IO V F 5.	tuo.
2	Number of Dominant Species
3	
Total Cover: Sapling/Shrub Stratum 1. KUN1/5 discolor 2. 3. 4. 5. Herb Stratum 1. FOCUS (anatys) 2. Stochus 3. Scirous Microcarous 4. Equisetim arvense 5.	I TOTAL NATIONAL OF DOLLING IN
Sapling/Shrub Stratum 1. KUDI/S DISCOLOR 2. 3. 4. 5. Total Cover: Herb Stratum 1. Holcus lands 20 V Pl 2. Stochus 3. Scirous micro carous 15 V Ol 4. Equisetim arvense 10 V Fl 5.	
2. 3. 4. 5. Herb Stratum 1. Holcus launits 20 V Fl 2. Stochus ZO V OL 3. Scirpus micro carous 15 V OL 4. Equisetim arvense 10 V Fl 5.	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
2. 3. 4. 5. Herb Stratum 1. Holcus launits 20 V Fl 2. Stochus ZO V OL 3. Scirpus micro carous 15 V OL 4. Equisetim arvense 10 V Fl 5.	W Prevalence Index worksheet:
3. 4. 5. Total Cover: Herb Stratum 1. Holcus lands 20 V FA 2. Stochus 20 V OV 3. Scirpus micro carous 15 V OV 4. Equischim arvense 10 V F	Total % Cover of: Multiply by:
Herb Stratum 1. Holcus lands 20 V Fl 2. Stachys 20 V Or 3. Scirpus microcarous 15 V Or 4. Equisetim arvense 10 V Fl 5.	
Herb Stratum 1. Holcus launitus 20 V FR 2. Stochus 3. Scirous micro carous 15 V 01 4. Equisetim arvense 10 V FR 5.	
Herb Stratum 1. Holcus lands 20 V FR 2. Stachus 3. Scirpus micro caçous 15 V OR 4. Equisetim arvense 10 V FR 5.	
1. Holcus lauritus 20 V FR 2. Stachus 20 V OV 3. Scirpus microcarous 15 V OV 4. Equisetim arvense 10 V F	FACU species x 4 =
2. Stochys 3. Scirpus microcacous 15 × 01 4. Equisetum arvense 10 × F	UPL species x 5 =
3. Scirpus microracous 15 v 0! 4. Equisetim arvense 10 v F	Column Totals: (A) (B)
4. Equisetim arvense 10 V F	Prevalence Index = B/A =
5	Hydrophytic Vegetation Indicators:
6	Dominance Test is >50%
	Prevalence Index is ≤3.0¹
7	Morphological Adaptations¹ (Provide supporting
8	data in Remarks or on a separate sheet)
Total Cover:	Wetland Bryophytes ¹
Woody Vine Stratum	Problematic Hydrophytic Vegetation ¹ (Explain)
1	Indicators of hydric soil and wetland hydrology must be present.
2	Livides also dia
Total Cover:	Hydrophytic Vegetation
% Bare Ground in Herb Stratum	vogetation
Remarks:	Present? Yes No

Profile Des	cription: (Describe	to the dep	th needed to document the indicator or	confirm the abse	nce of indicators.)
Depth	Matrix	•	Redox Features		,
(inches)	Color (moist)	%		Loc ² Texture	e Remarks
5-6	10YR2/2	90	61R 4/6 104R 5/4 7/3 C/RM 1	UM L	Rodox bonin @ 22 3-in
ن بر	104R5/4		7.54R5/8 7.54R3/1 10/10 C/10 N		ROOM MAJERIES PC, 20 VIII
0-12	101K99	_ &	427K-28 14,74K-21 10110 [10] 10		
					•
	,				·.
	·				
Tyne: C=C	oncentration, D=Dep	letion RM:	=Reduced Matrix. ² Location: PL=Pore L	ining RC=Root C	hannel M=Matrix
			LRRs, unless otherwise noted.)		cators for Problematic Hydric Soils ³ :
Histosol			Sandy Redox (S5)		2 cm Muck (A10)
	pipedon (A2)		Stripped Matrix (S6)		Red Parent Material (TF2)
	istic (A3)		Loamy Mucky Mineral (F1) (except MI		Other (Explain in Remarks)
	en Sulfide (A4)		Loamy Gleyed Matrix (F2)		Other (Explain in Nemarks)
	d Below Dark Surfac	e (A11)	Depleted Matrix (F3)		
	ark Surface (A12)	,	Redox Dark Surface (F6)		
	/lucky Mineral (S1)		Depleted Dark Surface (F7)	³Indi	cators of hydrophytic vegetation and
	Gleyed Matrix (S4)		Redox Depressions (F8)		etland hydrology must be present.
	Layer (if present):	4			, , , ,
Type:					/
Depth (in	ches):			Hydric 9	Soil Present? Yes V No No
Remarks:				,,	
			ace - hydric so	a	
YDROLO					ondary Indicators (2 or more required)
YDROLO	GY			Seco	ondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast)
YDROLO Vetland Hyo	GY drology Indicators:		cient)	<u>Secc</u>	Water-Stained Leaves (B9) (NW coast)
YDROLO Vetland Hyo Primary Indic Surface	GY drology Indicators: cators (any one indic Water (A1)		cient) Water-Stained Leaves (B9) (except	Secondary Second	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8)
YDROLO Vetland Hyo Primary India Surface High Wa	GY drology Indicators: cators (any one indic Water (A1) ater Table (A2)		cient) Water-Stained Leaves (B9) (except Salt Crust (B11)	NW coast)	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)
YDROLO Vetland Hyo Primary India Surface High Wa Saturatia	GY drology Indicators: cators (any one indic Water (A1) ater Table (A2) on (A3)		cient) Water-Stained Leaves (B9) (except Salt Crust (B11) Aquatic Invertebrates (B13)	Secc NW coast)	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2)
YDROLO Wetland Hydro Imary India Surface High Wa Saturatia Water M	GY drology Indicators: cators (any one indic Water (A1) ater Table (A2) on (A3) larks (B1)		cient) Water-Stained Leaves (B9) (except Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	NW coast)	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
YDROLO Vetland Hydromary Indic Surface High Wa Saturatic Water M Sedimer	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) farks (B1) on Deposits (B2)		cient) Water-Stained Leaves (B9) (except Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living	NW coast)	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
YDROLO Vetland Hyverimary Indice Surface High Wa Saturation Water M Sedimer Drift Dep	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) darks (B1) on Deposits (B2) posits (B3)		cient) Water-Stained Leaves (B9) (except Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4)	NW coast)	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
YDROLO Vetland Hyv Primary India Surface High Wa Saturatia Water M Sedimer Drift Dep	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4)		cient) Water-Stained Leaves (B9) (except Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Sc	NW coast) Roots (C3)	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4)
YDROLO Vetland Hyde Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) darks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5)		cient) Water-Stained Leaves (B9) (except Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Sc Stunted or Stressed Plants (D1) (LR	NW coast) Roots (C3) iils (C6) RR A)	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5)
YDROLO Vetland Hyd Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) Soil Cracks (B6)	ator is suffi	cient) Water-Stained Leaves (B9) (except Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Sc Stunted or Stressed Plants (D1) (LR Other (Explain in Remarks)	NW coast) Roots (C3) iils (C6) RR A)	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4)
YDROLO Vetland Hydrimary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Surface	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) Soil Cracks (B6) on Visible on Aerial I	ator is suffi	cient) Water-Stained Leaves (B9) (except Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Sc Stunted or Stressed Plants (D1) (LR Other (Explain in Remarks)	NW coast) Roots (C3) iils (C6) RR A)	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5)
YDROLO Vetland Hydrimary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Surface Inundatic	drology Indicators: cators (any one indicators) water (A1) ater Table (A2) on (A3) farks (B1) on Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) Soil Cracks (B6) on Visible on Aerial I	eator is suffi	cient) Water-Stained Leaves (B9) (except Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Sc Stunted or Stressed Plants (D1) (LR Other (Explain in Remarks)	NW coast) Roots (C3) iils (C6) RR A)	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5)
YDROLO Vetland Hyverimary India Surface High Water Marger Sedimer Drift Dep Algal Marger Iron Dep Surface Inundation	drology Indicators: cators (any one indicators) water (A1) ater Table (A2) on (A3) darks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) Soil Cracks (B6) on Visible on Aerial I vations: er Present?	eator is sufficient	cient) Water-Stained Leaves (B9) (except Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Sc Stunted or Stressed Plants (D1) (LR Other (Explain in Remarks) // No Depth (inches):	NW coast) Roots (C3) iils (C6) RR A)	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5)
YDROLO Vetland Hyverimary India Surface High Water Marger Sedimer Drift Dep Algal Marger Iron Dep Surface Inundation	drology Indicators: cators (any one indicators) water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) Soil Cracks (B6) on Visible on Aerial Invations: er Present? Y	eator is sufficient	cient) Water-Stained Leaves (B9) (except Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Sc Stunted or Stressed Plants (D1) (LR Other (Explain in Remarks) O Depth (inches):	Roots (C3)	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
YDROLO Vetland Hyverimary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Surface Inundation Gurface Water Water Table Saturation Prices	drology Indicators: cators (any one indicators) water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) Soil Cracks (B6) on Visible on Aerial Invations: er Present? Present? Y	eator is sufficient	cient) Water-Stained Leaves (B9) (except Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Sc Stunted or Stressed Plants (D1) (LR Other (Explain in Remarks) // No Depth (inches):	Roots (C3)	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5)
YDROLO Vetland Hydrimary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Surface Inundatio ield Observioriface Water Vater Table	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) darks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) Soil Cracks (B6) on Visible on Aerial I vations: er Present? Present? Y resent? Y resent? Y	eator is sufficient of the sum of	cient) Water-Stained Leaves (B9) (except Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Sc Stunted or Stressed Plants (D1) (LR Other (Explain in Remarks) 7) No Depth (inches): No Depth (inches):	NW coast) Roots (C3) iils (C6) R A) Wetland Hydro	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
YDROLO Vetland Hydrimary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Surface Inundatio ield Observioriface Water Vater Table	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) darks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) Soil Cracks (B6) on Visible on Aerial I vations: er Present? Present? Y resent? Y resent? Y	eator is sufficient of the sum of	cient) Water-Stained Leaves (B9) (except Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Sc Stunted or Stressed Plants (D1) (LR Other (Explain in Remarks) O Depth (inches):	NW coast) Roots (C3) iils (C6) R A) Wetland Hydro	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
YDROLO Vetland Hydromary Indic Surface High Water M Sedimer Drift Dep Algal Ma Iron Dep Surface Inundation Field Obsert Surface Water Table Saturation Princludes cap Describe Rec	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) darks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) Soil Cracks (B6) on Visible on Aerial I vations: er Present? Present? Y resent? Y resent? Y	eator is sufficient of the sum of	cient) Water-Stained Leaves (B9) (except Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Sc Stunted or Stressed Plants (D1) (LR Other (Explain in Remarks) 7) No Depth (inches): No Depth (inches):	NW coast) Roots (C3) iils (C6) R A) Wetland Hydro	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
YDROLO Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Surface Inundatio Field Obser Surface Water Table Saturation Princludes cap Describe Rec	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) darks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) Soil Cracks (B6) on Visible on Aerial I vations: er Present? Present? Y resent? Y resent? Y resent? Y resent? Y resent? Corded Data (stream	magery (B7	cient) Water-Stained Leaves (B9) (except Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Sc Stunted or Stressed Plants (D1) (LR Other (Explain in Remarks) // No Depth (inches): No Depth (inches): No Depth (inches): No Depth (inches):	NW coast) Roots (C3) iils (C6) R A) Wetland Hydro tions), if available	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
YDROLO Wetland Hy Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Surface Inundatio Field Obser Surface Water Table Saturation Princludes cap Describe Rec	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) Soil Cracks (B6) on Visible on Aerial I vations: er Present? Present? Y resent? Y	magery (B7) es 1 es 1 gauge, mo	cient) Water-Stained Leaves (B9) (except Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Sc Stunted or Stressed Plants (D1) (LR Other (Explain in Remarks) No Depth (inches): No Depth (inches): Initoring well, aerial photos, previous inspec	NW coast) Roots (C3) iils (C6) R A) Wetland Hydro tions), if available	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
YDROLO Wetland Hyverimary India Surface High Water M Sedimer Drift Dep Algal Ma Iron Dep Surface Inundation Surface Inundation Surface Surface Water Table Saturation Princludes cap Describe Rec	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) Soil Cracks (B6) on Visible on Aerial I vations: er Present? Present? Y resent? Y	magery (B7) es 1 es 1 gauge, mo	cient) Water-Stained Leaves (B9) (except Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Sc Stunted or Stressed Plants (D1) (LR Other (Explain in Remarks) No Depth (inches): No Depth (inches): Initoring well, aerial photos, previous inspec	NW coast) Roots (C3) iils (C6) R A) Wetland Hydro tions), if available	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
YDROLO Vetland Hyverimary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Surface Inundatio ield Observing Control in Control	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) Soil Cracks (B6) on Visible on Aerial I vations: er Present? Present? Y resent? Y	magery (B7) es 1 es 1 gauge, mo	cient) Water-Stained Leaves (B9) (except Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Sc Stunted or Stressed Plants (D1) (LR Other (Explain in Remarks) No Depth (inches): No Depth (inches): Initoring well, aerial photos, previous inspec	NW coast) Roots (C3) iils (C6) R A) Wetland Hydro tions), if available	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
YDROLO Vetland Hyverimary India Surface High Was Saturation Water M Sedimer Drift Dep Algal Mas Iron Dep Surface Inundation ield Observator Table saturation Procludes cap escribe Recession	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) Soil Cracks (B6) on Visible on Aerial I vations: er Present? Present? Y resent? Y	eator is sufficient of the sum of	cient) Water-Stained Leaves (B9) (except Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Sc Stunted or Stressed Plants (D1) (LR Other (Explain in Remarks) No Depth (inches): No Depth (inches): Initoring well, aerial photos, previous inspec	Secondary Second	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
YDROLO Vetland Hyverimary India Surface High Was Saturation Water M Sedimer Drift Dep Algal Mas Iron Dep Surface Inundation ield Observator Table saturation Procludes cap escribe Recession	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) Soil Cracks (B6) on Visible on Aerial I vations: er Present? Present? Y resent? Y	eator is sufficient of the sum of	cient) Water-Stained Leaves (B9) (except Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Sc Stunted or Stressed Plants (D1) (LR Other (Explain in Remarks) No Depth (inches): No Depth (inches): Initoring well, aerial photos, previous inspec	Secondary Second	Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)

WETLAND DETERMINATION DATA F						-
Project/Site: Martin Sloush	(City/County	: Ewrek	a/Hombold+	Sampling Date: 10	108
Applicant/Owner: RCAR / \/vornax^				State: <u>CA</u>	Sampling Point: <u>M</u>	P22
Investigator(s): W/K5	;	Section, To	wnship, Rai	nge:	1011 <u>van</u>	· .
Landform (hillslope, terrace, etc.): 10 hillslime		Local relief	(concave, d	convex, none):	Slope (%): <u>15</u>
Subregion (LRR):						
Soil Map Unit Name:Are climatic / hydrologic conditions on the site typical for this	time of yea	ar? Yes	X No	(If no, explain in Re	emarks.)	
Are Vegetation, Soil, or Hydrology sig	nificantly o	disturbed?	O Are "	Normal Circumstances" p	resent? Yes	No .
Are Vegetation, Soil, or Hydrology na				eded, explain any answer		
						roo oto
SUMMARY OF FINDINGS – Attach site map s	nowing	Sampiin	g point it	ocalions, transects,	, important leatt	res, etc
Hydrophytic Vegetation Present? Yes X No		ls th	e Sampled	Area	, mainte	
Hydrophytic Vegetation Present? Hydric Soil Present? Yes No Yes No Wetland Hydrology Present? Yes No	<u>×</u>		in a Wetlan	d? Yes CC	C No COE	
		<u> </u>				
Remarks:						
VEGETATION						
	Absolute	Dominant	Indicator	Dominance Test works	sheet:	
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Sp		
1				That Are OBL, FACW, o	or FAC:	(A)
2				Total Number of Domina		
3 4.				Species Across All Strat	ta:	(B)
Total Cover:	0			Percent of Dominant Sp		(A/B)
Sapling/Shrub Stratum				That Are OBL, FACW, o		(AVB)
1				Prevalence Index work		
2					Multiply by	
3				OBL species FACW species		<u> </u>
4				FAC species		
5 Total Cover:	\overline{O}			FACU species		
Herb Stratum	-/ -2		1	UPL species	x 5 =	
1. Harris Stolondera	<u> </u>	<u>/</u>	FACW	Column Totals:		
2. Plantian lance nata	70		EAC-	December of tradeur	- D/A -	
3. Holeus lahahis	1(.)		FAC	Hydrophytic Vegetation	= B/A =	
4. <u>Lotium nerenno</u> , 5. Lotus conficulatus	7		FIRE	Dominance Test is		
6. Anthoxanthum dorodin	1		FACTI	Prevalence Index is		
7	<u>" </u>			Morphological Adar	otations1 (Provide sup	porting
8.					or on a separate she	et)
Total Cover:	90			Wetland Bryophyte		
Woody Vine Stratum	,			Problematic Hydron		
1				¹ Indicators of hydric soil be present.	and wetland hydrolo	gy must
2				. •		
Total Cover:				Hydrophytic Vegetation	×	
% Bare Ground in Herb Stratum				Present? Yes	s/\No	_
Remarks:						

Depth Matrix (inches) Color (moist) % O-15 OYR 2/1 OT	Redox Features Color (moist) % Type¹ Loc²	Texture Remarks L/SIL Starting at 3-in 300 C in PL but di When wet (very)
Type: C=Concentration, D=Depletion, Hydric Soil Indicators: (Applicable to Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11)	o all LRRs, unless otherwise noted.) Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1) (except MLRA Loamy Gleyed Matrix (F2)	RC=Root Channel, M=Matrix. Indicators for Problematic Hydric Soils³: 2 cm Muck (A10) Red Parent Material (TF2) Other (Explain in Remarks)
Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)	Redox Dark Surface (F6)Depleted Dark Surface (F7)Redox Depressions (F8)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present.
Restrictive Layer (if present):		
Type: Depth (inches): Remarks:		Hydric Soil Present? Yes No
Depth (inches):		Hydric Soil Present? Yes No
Depth (inches): Remarks:		Hydric Soil Present? Yes No
Depth (inches):Remarks:	sufficient)	
Depth (inches):		Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast)
Depth (inches):	Water-Stained Leaves (B9) (except NW	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) coast) Sparsely Vegetated Concave Surface (B8)
Depth (inches):	Water-Stained Leaves (B9) (except NW Salt Crust (B11)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast)
Depth (inches):	Water-Stained Leaves (B9) (except NW	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2)
Depth (inches):	 Water-Stained Leaves (B9) (except NW Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) 	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Depth (inches):	Water-Stained Leaves (B9) (except NWSalt Crust (B11)Aquatic Invertebrates (B13)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Depth (inches):	 Water-Stained Leaves (B9) (except NW Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roo 	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) Geomorphic Position (D2) Shallow Aquitard (D3)
Depth (inches):	 Water-Stained Leaves (B9) (except NW Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) 	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4)
Depth (inches):	 Water-Stained Leaves (B9) (except NW Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C 	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4)
Depth (inches):	 Water-Stained Leaves (B9) (except NW Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) — Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5)
Depth (inches):	 Water-Stained Leaves (B9) (except NW Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) — Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5)
Depth (inches):	Water-Stained Leaves (B9) (except NW Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Room Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) — Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5)
Depth (inches):	Water-Stained Leaves (B9) (except NW Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) (B7) No Depth (inches):	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) — Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5)
Depth (inches):	Water-Stained Leaves (B9) (except NW Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) (B7) No Depth (inches):	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) — Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5)
Depth (inches):	Water-Stained Leaves (B9) (except NW Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (Compared on the Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) y (B7) No Depth (inches):	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) — Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Depth (inches):	Water-Stained Leaves (B9) (except NW Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) y (B7) No Depth (inches): No Depth (inches): We	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) — Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Depth (inches):	Water-Stained Leaves (B9) (except NW Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) y (B7) No Depth (inches): No Depth (inches): We	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ts (C3) — Geomorphic Position (D2) Shallow Aquitard (D3) Frost-Heave Hummocks (D4) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: PG+E/Martin Slough		City/C	County:	w boid t	Sampl	ling Date: 1/3	
Applicant/Owner:				State:@	Sampl	ing Point: P&+	E1
Investigator(s): Jordan Mayor + Micha Schuerz		Section	on, Township, Ra	ange:			
Landform (hillslope, terrace, etc.):		Loca	l relief (concave,	convex, none)	nove	Slope (%)	0%
Subregion (LRR):	Lat:			_ Long		Datum:	
Soil Map Unit Name:				NWI			
Are climatic / hydrologic conditions on the site typical for the	is time of ye	ear? Y					
Are Vegetation, Soil, or Hydrology				"Normal Circumst			lo
Are Vegetation, Soil, or Hydrology				eeded, explain an		_	
SUMMARY OF FINDINGS – Attach site map			·				s, etc.
Hydrophytic Vegetation Present? Yes N							
Hydric Soil Present? Yes N			Is the Sampled	i Area nd? Yo	1/ N		
Wetland Hydrology Present? Yes ✓ N							
Remarks: Near monowhere of grass &	vot-ide	Atte	able in 1	present Sta	Ae due to	, grazing po	stre.
VEGETATION - Use scientific names of plan	its.						
To Charles (Division	Absolute		inant Indicator	Dominance Te	st worksheet:		.79
1			cies? Status	Number of Dom That Are OBL, i		2	(A)
2	- ——			Total Number o	f Dominant		
3				Species Across	All Strata:		(B)
Sapling/Shrub Stratum (Plot size:)		= Tot	al Cover	Percent of Dom That Are OBL, I	inant Species FACW, or FAC:	?	(A/B)
1.				Prevalence Ind	ex worksheet:		
2.				1		Multiply by:	-
3.				I		: 1 =	
4.				I		(2 =	
5				I		3 =	
Little Of the Control of the Control		= Tot	al Cover			4 =	
Herb Stratum (Plot size:) 1. grax more cilture (no ID	1100		?			(5 = A)	
2. Ruck crispus	40% 51h		FAC				_ (Þ)
3. Romedis repens	5%		FAC		e Index = B/A =		
4.				Hydrophytic Ve			
5.				1 - Rapid To	est for Hydropny nce Test is >50%	_	(%)
6.				3 - Prevaler			
7				l		ns¹ (Provide supp	norting
8.			3	data in F	≀emarks or on a	separate sheet)	9
9			<u> </u>	5 - Wetland		2.00	
10				l .		egetation¹ (Explain	
11		-		'Indicators of hy be present, unle	dric soil and wet	tland hydrology m	nust
Woody Vine Stratum (Plot size)		= Tota	l Cover	be present, unic		problematic.	
1				District di			
2				Hydrophytic Vegetation	2		
			l Cover	Present?	Yes	No	
% Bare Ground in Herb Stratum					141		
Remarks:							
			9				

1/25/17

Sampling Point: PG+E/

Profile Description: (Describe to the	e depth needed	to document th	e indicator	or confirm	n the absence	e of indicators.)
DepthMatrix		Redox Featu	ires			•
	% Color (r	moist)%	Type'	Loc2	Texture	Remarks
0-3" 2.5x3/2 10		<i>&</i>	<u> </u>		sitleam	
3-18" 2.54 3/2 7	10 7.5 YR	3/4 30		Diel	silt learn	neigo dipyridil reaction
				7		
						
						
					_	
] — — —						
						·
1- 0-		 				·
Type: C=Concentration, D=Depletion	1. RM=Reduced N	Matrix, CS=Cove	red or Coate	ed Sand Gr		ocation: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable			otea.)			ors for Problematic Hydric Soils ³ :
— Histosol (A1)		Redox (S5)				m Muck (A10)
Histic Epipedon (A2) Black Histic (A3)		ed Matrix (S6)	(FA) /			d Parent Material (TF2)
Hydrogen Sulfide (A4)		Mucky Mineral (MLRA 1)	_	ry Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A1)		/ Gleyed Matrix (ed Matrix (F3)	F2)		0	ner (Explain in Remarks)
Thick Dark Surface (A12)		Dark Surface (F	6)		3Indicat	ors of hydrophytic vegetation and
Sandy Mucky Mineral (S1)		ed Dark Surface				and hydrology must be present,
Sandy Gleyed Matrix (S4)		Depressions (F				ss disturbed or problematic.
Restrictive Layer (if present):		-			T	
Type:						
Depth (inches):					Hydric Soi	Present? Yes No
Remarks:						
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of one re	quired; check all	that apply)_			Seco	ndary Indicators (2 or more required)
Y Surface Water (A1)	V	later-Stained Lea	aves (B9) (e	xcept		Vater-Stained Leaves (B9) (MLRA 1, 2,
K High Water Table (A2)	_	MLRA 1, 2, 4A				4A, and 4B)
➤ Saturation (A3)	s	alt Crust (B11)	,,		г	Orainage Patterns (B10)
Water Marks (B1)		quatic Invertebra	tes (B13)			Ory-Season Water Table (C2)
Sediment Deposits (B2)		ydrogen Sulfide				Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)		xidized Rhizospl		Living Roo	_	Seomorphic Position (D2)
Algal Mat or Crust (B4)		resence of Redu			· · · —	Shallow Aquitard (D3)
Iron Deposits (B5)		ecent Iron Redu	-	-		FAC-Neutral Test (D5)
Surface Soil Cracks (B6)		tunted or Stresse		•	_	Raised Ant Mounds (D6) (LRR A)
Inundation Visible on Aerial Image		ther (Explain in f	,	, (EIXICA)	_	Frost-Heave Hummocks (D7)
Sparsely Vegetated Concave Surf		mer (Explainin)	(CITIZINO)		— 「	10st-Reave Hullillocks (D7)
Field Observations:						
Surface Water Present? Yes	No [Jenth (inches):				
	/ No	Depth (inches): _	811	- [
Saturation Present? Yes	No [Depth (males)	1011	-		
(includes capillary fringe)			-	- 1		y Present? Yes _ L No
Describe Recorded Data (stream gaug	e, monitoring wel	ll, aerial photos, ¡	previous ins	pections), i	f available:	
Remarks:	1. 1.				<u> </u>	
Surface ponding in ag	rield					
/ J						
**				•		

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: PG+E/ Martin Slovah		City/County	State CA Sampling Point PC+E2
Applicant/Owner:			State CA Sampling Point PC+E2
Investigator(s): Jordan Mayor + Mishe Sc	hume	Section, Township, Ra	ange:
			convex, none): Slope (%): ?
			Long: Datum:
Soil Map Unit Name:			
Are climatic / hydrologic conditions on the site typical for th			NWI classification:
	-		
Are Vegetation, Soil, or Hydrology			"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology	naturally pro	oblematic? (If ne	eeded, explain any answers in Remarks.)
		sampling point l	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes ?			
	No	Is the Sampled within a Wetlar	
Wetland Hydrology Present? Yes	No	Within a Wellar	16510
Remarks:			
VEGETATION – Use scientific names of plan			
VEGETATION - Ose scientific fiames of plan		Coming to the disease	
Tree Stratum (Plot size:)		Dominant Indicator Species? Status	Dominance Test worksheet: Number of Dominant Species
1,			That Are OBL, FACW, or FAC:(A)
2.			Total Number of Dominant
3			Species Across All Strata (B)
4			Percent of Dominant Species
Sapling/Shrub Stratum (Plot size)		= Total Cover	That Are OBL, FACW, or FAC: (A/B)
1			Prevalence Index worksheet:
2.			Total % Cover of: Multiply by:
3.			OBL species x 1 =
			FACW species x 2 =
5			FAC species x 3 =
		= Total Cover	FACU species x 4 =
Herb Stratum (Plot size:)	90%	2	UPL species x 5 =
1. gross monowhile. 2. Runge crispus	5%	TAC	Column Totals: (A) (B)
3. Rannewlus reports	5%		Prevalence Index = B/A =
4.			Hydrophytic Vegetation Indicators:
5			1 - Rapid Test for Hydrophytic Vegetation
6.			2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹
7.			4 - Morphological Adaptations¹ (Provide supporting)
8.			data in Remarks or on a separate sheet)
9.			5 - Wetland Non-Vascular Plants ¹
10.			Problematic Hydrophytic Vegetation¹ (Explain)
11.			¹Indicators of hydric soil and wetland hydrology must
		= Total Cover	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:) 1			_
			Hydrophytic Vegetation
2		= Total Cover	Present? Yes No
% Bare Ground in Herb Stratum		– rotal Cover	a) ————————————————————————————————————
Remarks:		,	

SOIL

Sampling Point: PG+E2

Lightid Dazi	cription: (Describe	to the debut i	ieeaea to docar	HALIIT TITA II	nuicator i	or continu	i the absence	or indicators.)	
Depth	Matrix			x Features				,	
(inches)	Color (moist)	%	Color (moist)	%	Type	Loc²	Texture	Rer	narks
_0-3"	2.5Y 3/2	100		B			sistleam		
3-18"	a.5Y 3/2	75	7.5YR 34	25		muhix	silt lean	20 di vil	1 reaction
								160 24 36 464	1 11910.00
l ——		· 							
								-	
								-	
	_								
l									
Type: C=C	oncentration, D=Dep	letion, RM=Re	duced Matrix, CS	S=Covered	or Coate	d Sand Gr	ains. ² Lo	cation: PL=Pore Li	ning, M=Matrix.
Hydric Soll	Indicators: (Applic	able to all LR	Rs, unless other	wise note	ed.)			ors for Problematic	
Histosol	(A1)		Sandy Redox (S	S5)			2 cr	m Muck (A10)	
Histic E	pipedon (A2)		Stripped Matrix					d Parent Material (T	F2)
Black Hi	istic (A3)	_	Loamy Mucky N	lineral (F1) (except	MLRA 1)		y Shallow Dark Sur	
Hydroge	en Sulfide (A4)		Loamy Gleyed I	Matrix (F2))			er (Explain in Rema	
	d Below Dark Surfac	e (A11) <u> </u>	Depleted Matrix	(F3)					
1	ark Surface (A12)		Rédox Dark Sui	٠,,			3Indicate	ors of hydrophytic vi	egetation and
	flucky Mineral (S1)	_	Depleted Dark S		7)		wetla	and hydrology must	be present,
	Sleyed Matrix (S4)		Redox Depress	ions (F8)			unles	ss disturbed or prob	lematic.
	Layer (if present):						1		
Type:			-						
Depth (in	ches):		_				Hydric Soil	l Present? Yes _	No
Remarks:		-			, .		<u> </u>		
Suri	face ponding	in ag fi	eld present	- but r	not whe	re plot	is.		
1	1 0		•			,			
					2000 04				
						_			i i
HYDROLO	GY								
Wetland Hy	drology Indicators:					C			
Primary India	cators (minimum of o	ne required; ct	neck all that apply	<u>/}</u>	11		<u>Seco</u>	ndary Indicators (2)	or more required)
<u>⊀</u> Surface	Water (A1)		Water-Stai	ned Leave	s (B9) (ex	cept	v	Vater-Stained Leave	es (B9) (MLRA 1, 2,
😕 High Wa	iter Table (A2)			1, 2, 4A, a		•	_	4A, and 4B)	
X Saturation			Salt Crust		•		С	Prainage Patterns (E	10)
Water M	larks (B1)		Aquatic Inv		(B13)			Dry-Season Water T	
Sedimer	nt Deposits (B2)		Hydrogen					177	Aerial Imagery (C9)
	oosits (B3)		Oxidized R			iving Roof		Seomorphic Position	
1 —	at or Crust (B4)		Presence of					Shallow Aquitard (D3	` ′
-	osits (B5)		Recent Iron		111			AC-Neutral Test (D	
	- '								
I Surface	SOIL Cracks (Mb)		Stunted or	Streeged !	Diante /D1			,	· I
1 —	Soil Cracks (B6) on Visible on Aerial I	magen/ (P7)	Stunted or		-		R	Raised Ant Mounds	(D6) (LRR A)
Inundation	on Visible on Aerial I		Stunted or Other (Exp		-		R	,	(D6) (LRR A)
Inundation Sparsely	on Visible on Aerial I Vegetated Concave				-		R	Raised Ant Mounds	(D6) (LRR A)
Inundation Sparsely	on Visible on Aerial I Vegetated Concave vations:	e Surface (B8)	Other (Exp	lain in Rer	-		R	Raised Ant Mounds	(D6) (LRR A)
Inundation Sparsely Field Observing Surface Water	on Visible on Aerial I v Vegetated Concave vations: er Present?	e Surface (B8)	Other (Exp	lain in Rer	narks)		R	Raised Ant Mounds	(D6) (LRR A)
Inundatio Sparsely Field Observ Surface Water Table	on Visible on Aerial I v Vegetated Concave vations: er Present? Y Present? Y	es No _es No _	Other (Exp Depth (inc	ches):	marks)		R	Raised Ant Mounds	(D6) (LRR A)
Inundation Sparsely Field Observable Surface Water Table Saturation Pos	on Visible on Aerial I v Vegetated Concave vations: er Present? Present? Y resent? Y	es No _es No _	Other (Exp	ches):	narks)	(LRR A)	R F	Raised Ant Mounds	D6) (LRR A) cks (D7)
Inundatii Sparsely Field Obsen Surface Water Water Table Saturation Prediction (includes cape)	on Visible on Aerial I Vegetated Concave vations: er Present? Present? Y resent? Y resent? Y	es No es No es No	Other (Exp Depth (inc	ches):	8 '1	(LRR A)	R F	Raised Ant Mounds (rost-Heave Hummo	D6) (LRR A) cks (D7)
Inundatii Sparsely Field Obsen Surface Water Water Table Saturation Prediction (includes cape)	on Visible on Aerial I v Vegetated Concave vations: er Present? Present? Y resent? Y	es No es No es No	Other (Exp Depth (inc	ches):	8 '1	(LRR A)	R F	Raised Ant Mounds (rost-Heave Hummo	D6) (LRR A) cks (D7)
Inundatii Sparsely Field Obser Surface Wate Water Table Saturation Pr (includes cap Describe Rec	on Visible on Aerial I Vegetated Concave vations: er Present? Present? Y resent? Y resent? Y	es No es No es No	Other (Exp Depth (inc	ches):	8 '1	(LRR A)	R F	Raised Ant Mounds (rost-Heave Hummo	D6) (LRR A) cks (D7)
Inundatii Sparsely Field Obsen Surface Water Water Table Saturation Prediction (includes cape)	on Visible on Aerial I Vegetated Concave vations: er Present? Present? Y resent? Y resent? Y	es No es No es No	Other (Exp Depth (inc	ches):	8 '1	(LRR A)	R F	Raised Ant Mounds (rost-Heave Hummo	D6) (LRR A) cks (D7)
Inundatii Sparsely Field Obser Surface Wate Water Table Saturation Pr (includes cap Describe Rec	on Visible on Aerial I Vegetated Concave vations: er Present? Present? Y resent? Y resent? Y	es No es No es No	Other (Exp Depth (inc	ches):	8 '1	(LRR A)	R F	Raised Ant Mounds (rost-Heave Hummo	D6) (LRR A) cks (D7)
Inundatii Sparsely Field Obser Surface Wate Water Table Saturation Pr (includes cap Describe Rec	on Visible on Aerial I Vegetated Concave vations: er Present? Present? Y resent? Y resent? Y	es No es No es No	Other (Exp Depth (inc	ches):	8 '1	(LRR A)	R F	Raised Ant Mounds (rost-Heave Hummo	D6) (LRR A) cks (D7)
Inundatii Sparsely Field Obser Surface Wate Water Table Saturation Pr (includes cap Describe Rec	on Visible on Aerial I Vegetated Concave vations: er Present? Present? Y resent? Y resent? Y	es No es No es No	Other (Exp Depth (inc	ches):	8 '1	(LRR A)	R F	Raised Ant Mounds (rost-Heave Hummo	D6) (LRR A) cks (D7)

Appendix C – Photo log

Photo 1. Example of pedestaled trees that indicate the original surface level prior to excavation and grading of higher elevation areas along the margins of the golf course. Blue arrows indicate the original elevation of surface soils.



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