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Appendix 3.2C Wetland Delineation

National Aeronautics and Space Administration



George C. Marshall Space Flight Center Marshall Space Flight Center, AL 35812

April 11, 2012

Reply to Attn of:

Office of Center Operations

U.S. Army Corps of Engineers, Los Angeles District Regulatory Division, Ventura Field Office Attn: Antal Szijj 2151 Alessandro Drive, Suite 110 Ventura, California 93001

SUBJECT: Wetlands and Waters of the United States, Request for a Jurisdictional Determination for the NASA-Administered Portions of the Santa Susan Field Laboratory, Ventura County, California.

Dear Mr. Antal Szijj:

The National Aeronautics and Space Administration (NASA) requests a jurisdictional determination for Wetlands and Waters of the United States within the NASA-Administered property of the Santa Susana Field Laboratory located in Ventura County, California.

The NASA-administered property at SSFL consists of 41.7 acres within Area I and all 409.5 acres of Area II.

A wetland delineation was conducted for NASA in January 2012. The survey was conducted to support NASA's preparation of an Environmental Impact Statement (EIS), which is being prepared to assess the potential impacts of NASA's proposed action to demolish structures and remediate soil and groundwater on the NASA-Administered property at SSFL, as well as to support subsequent permitting that might be required under Section 404 of the Clean Water Act. The results of this delineation are considered preliminary pending your determination. A copy of NASA's survey is enclosed.

If you have any questions, please contact Jeremiah Kolb at (256)544-6304.

Sincerely,

illen Ellit

Allen Elliott SSFL Project Director National Aeronautics and Space Administration (NASA)

Enclosure: Wetlands and Waters of the United States, Delineation for the NASA-Administered Portions of the Santa Susana Field Laboratory, Ventura County, California

Wetlands and Waters of the United States, Delineation for the NASA-Administered Portions of the Santa Susana Field Laboratory, Ventura County, California

> National Aeronautics and Space Administration Huntsville, Alabama

> > March 2012

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Acronyms and Abbreviations

‰	per mil (per thousand)
°F	degrees Fahrenheit
CFR	Code of Federal Regulations
CWA	Clean Water Act
EIS	Environmental Impact Statement
ELV	Expendable Launch Vehicle
HUC	Hydrologic Unit Code
LF	linear foot
LOX	liquid oxygen
NASA	National Aeronautics and Space Administration
NHD	National Hydrology Dataset
NRCS	Natural Resources Conservation Service
NWI	National Wetland Inventory
PABHx	Palustrine Aquatic Bed Permanently Flooded Excavated
PEMC	Palustrine Emergent Seasonally Flooded
PFOA	Palustrine Forested Temporarily Flooded
PLF	Propellant Load Facility
PSSA	Palustrine Scrub-Shrub Temporarily Flooded
PSSB	Palustrine Scrub-Shrub Saturated
PSSC	Palustrine Scrub-Shrub Seasonally Flooded
PUBHx	Palustrine Unconsolidated Bottom Permanently Flooded Excavated
SPA	Storage Propellant Area
SSFL	Santa Susana Field Laboratory
STL	Systems Test Laboratory
U.S.	United States
USACE	U.S. Army Corps of Engineers
USGS	U.S. Geological Survey

section 1 Introduction

Wetlands and other waters are ecological habitats protected under the federal Clean Water Act (CWA). Activities that have the potential to discharge fill materials into "waters of the United States" (U.S.), including wetlands, must be authorized by the U.S. Army Corps of Engineers (USACE) under Section 404 of the CWA. This report presents the results of a wetlands delineation for the National Aeronautics and Space Administration (NASA)– administered property at the Santa Susana Field Laboratory (SSFL) in Ventura County, California. The results of this delineation are considered preliminary, pending verification by the USACE regulatory branch. A general description of the project location and environmental setting are provided in the following text. Study methods and survey results are provided in Sections 2 and 3, respectively.

1.1 Project Location and Description

SSFL is located mostly within an unincorporated part of Ventura County, California (Figure 1-1). The site is in a remote, mountainous area near the crest of the Simi Hills at the western border of the San Fernando Valley, approximately 30 miles northwest of downtown Los Angeles.

SSFL was established shortly after World War II and has been used primarily as a site to develop and test nuclear reactors, rockets, and missiles. The total site is 2,850 acres and is divided into four test areas (Areas I, II, III, and IV) and two buffer areas (northern and southern buffer areas). The NASA-administered property at SSFL consists of 41.7 acres within Area I and all 409.5 acres of Area II, together representing approximately 15.6 percent of the total area of the site (Figure 1-2).

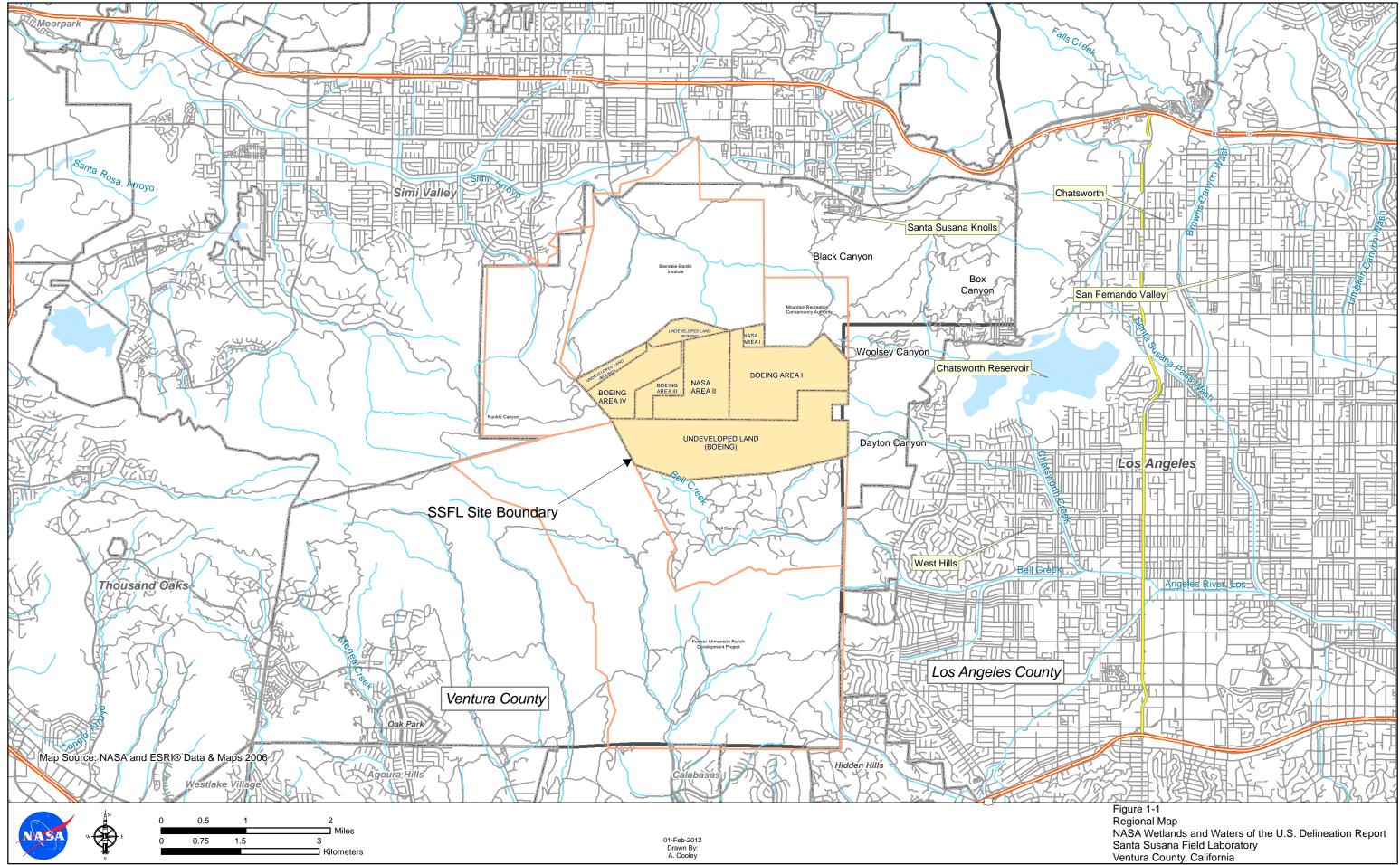
This report presents the results of a wetland delineation of the NASA-administered property at SSFL. The survey was conducted to support NASA's preparation of an Environmental Impact Statement (EIS), which is being prepared to assess the potential impacts of NASA's proposal to demolish structures and remediate soil and groundwater on the NASA-administered property at SSFL, as well as to support subsequent permitting that might be required under Section 404 of the CWA.

1.2 Environmental Setting

SSFL's landscape is dominated by sandstone outcropping hills, areas of natural vegetation, and numerous industrial facilities and roadways. The site is within the central portion of the Southern California Coast ecological subregion, in the Simi Valley–Santa Susana Mountains (261Be) ecological subsection (Miles and Goudey, 1998). This ecological subsection includes steep mountains, moderately steep to steep hills, and nearly level to gently sloping floodplains, terraces, and alluvial fans.

1.2.1 Terrestrial Vegetation

Eight natural terrestrial habitat types as well as ruderal and developed areas have been identified on the NASAadministered property at SSFL (NASA, 2011). These habitat types are described briefly in the following subsections. Table 1-1 provides a comparison of the mapped habitat types and the current California vegetation classification system (Sawyer et al., 2009). Aquatic features including wetlands and drainages are described in more detail in Section 3.



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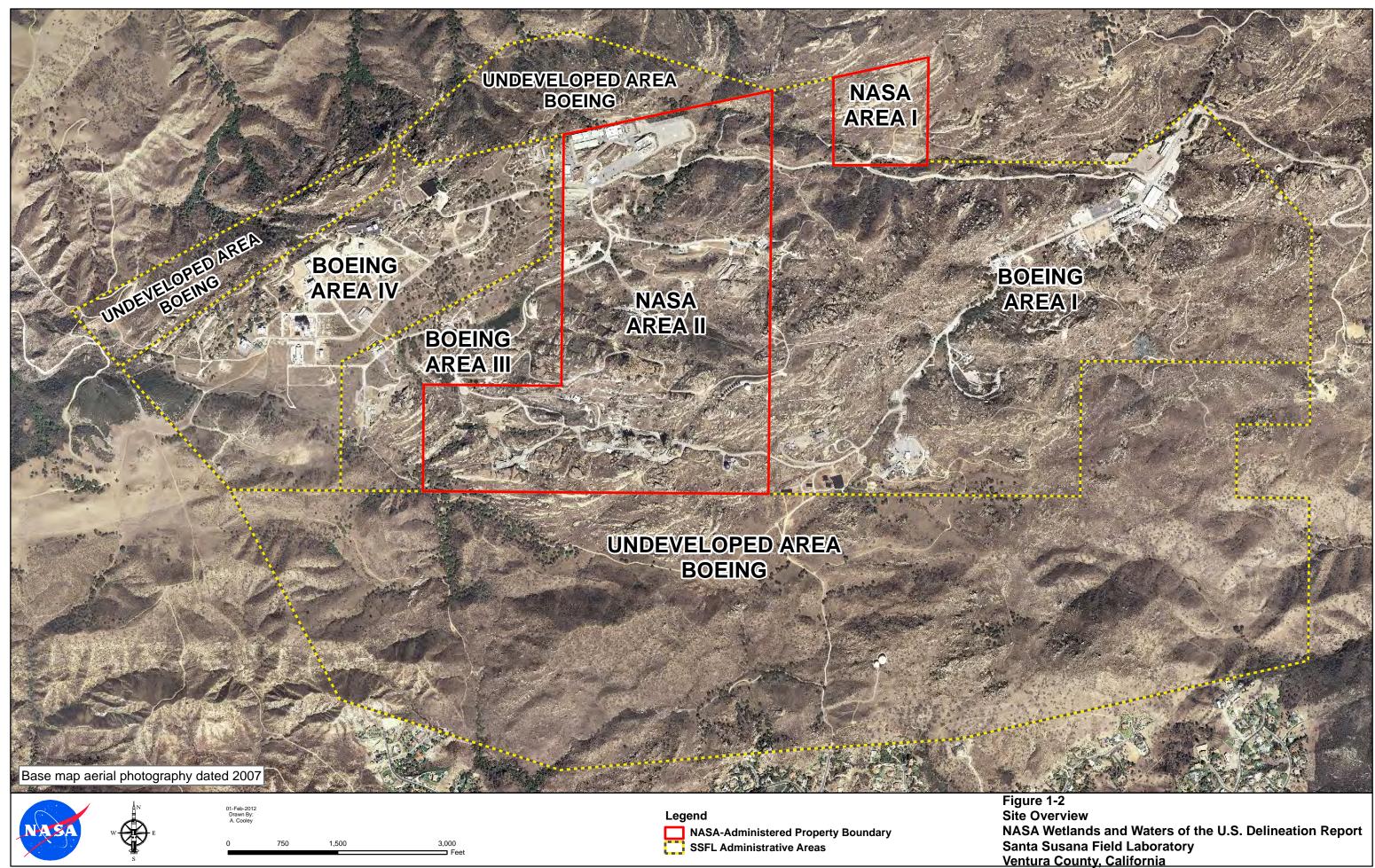


TABLE 1-1Mapped Habitat Types and Current California Vegetation Classification SystemWetland Delineation for the NASA-Administered Portions of SSFL

Mapped Natural Habitat Types	Current California Vegetation Classification System ^a
Chaparral	Adenostoma fasciculatum—Salvia mellifera Shrubland Alliance Malosma laurina Shrubland Alliance Malacothamnus fasciculatus Shrubland Alliance Eriodictyon crassifolium Provisional Shrubland Alliance
Venturan Coastal Sage Scrub	Artemisia californica –Eriogonum fasciculatum Shrubland Alliance
Non-Native Grassland	Avena(barbata, fatua) Semi-Natural Herbaceous Stands
Coast Live Oak Woodland	Quercus agrifolia Woodland Alliance
Coast Live Oak Riparian Forest	Quercus agrifolia Woodland Alliance
Baccharis Scrub	Baccharis pilularis Shrubland Alliance
Mule-fat Scrub	Baccharis salicifolia Shrubland Alliance
Southern Willow Scrub	Salix lasiolepis Shrubland Alliance

^a From Sawyer et al. (2009).

1.2.1.1 Chaparral

Chaparral is the most abundant and widespread natural community at the NASA-administered property. This habitat covers 172.6 acres (approximately 38 percent) of the site.¹ Characteristic species include chamise (*Adenostoma fasciculatum*), hoaryleaf ceanothus (*Ceanothus crassifolius*), black sage (*Salvia mellifera*), laurel sumac (*Malosma laurina*), thickleaf yerba santa (*Eriodictyon crassifolium*), Mendocino bushmallow (*Malacothamnus fasciculatus*), and chaparral yucca (*Yucca whipplei*). The abundance of these species is variable within this habitat type depending on soils, aspect, past disturbance, and other environmental factors.

1.2.1.2 Venturan Coastal Sage Scrub

Venturan coastal sage scrub covers 64.4 acres (approximately 15 percent) of the site. Characteristic species include coastal sagebrush (*Artemisia californica*), Eastern Mojave buckwheat (*Eriogonum fasciculatum* var. *fasciculatum*), black sage, chaparral yucca, thickleaf yerba santa, and common deerweed (*Acmispon glaber*).

1.2.1.3 Non-native Grassland

Grassland habitat covers 18.6 acres (approximately 4 percent) of the site and often occurs in a mosaic with other habitat types. Most of the grasslands are characterized by slender oat (*Avena barbata*) intermixed with other introduced annual grasses such as ripgut brome (*Bromus diandrus*), soft brome (*Bromus hordeaceus*), and fescue (*Vulpia* spp). Native grasses including needlegrass (*Nassella* spp.), littleseed muhly (*Muhlenbergia microsperma*), and deergrass (*Muhlenbergia rigens*) are present in a few areas, but generally provide only minimal cover. Common herbaceous species include suncup (*Camissonia* spp.), winecup clarkia (*Clarkia purpurea*), longbeak stork's bill (*Erodium botrys*), and winter vetch (*Vicia villosa*).

1.2.1.4 Coast Live Oak Woodland

Coast live oak woodland is distributed widely across the site but makes up only 13.2 acres (approximately 3 percent) of the NASA-administered property. This habitat is characterized by mature coast live oak (*Quercus agrifolia*) trees. The understory generally consists of annual grasses such as ripgut brome and slender oat, with occasional native grasses including blue wildrye (*Elymus glaucus*) and California brome (*Bromus carinatus*). The

¹ "NASA-administered property" and "site" are synonymous throughout.

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understory shrub layer is poorly developed and, where present, generally consists of scattered Pacific poison oak (*Toxicodendron diversilobum*).

1.2.1.5 Coast Live Oak Riparian Forest

Coast live oak riparian forest is found along the edges of the seasonal streams on the site. This habitat type covers 9.2 acres (approximately 2 percent) of the NASA-administered property. The composition of this community is generally similar to the coast live oak woodland habitat described previously, although the understory typically is more diverse in these areas and includes species such as Douglas' sagewort (*Artemisia douglasiana*), creeping snowberry (*Symphoricarpos mollis*), and American black elderberry (*Sambucus nigra*).

1.2.1.6 Baccharis Scrub

Baccharis scrub is limited, covering only 2.6 total acres (less than 1 percent) of the site. This community is characterized by generally pure stands of coyotebrush (*Baccharis pilularis*). In these areas, coyotebrush ranges from dense cover with a sparse herbaceous layer to more open stands with an understory composed of annual grasses and scattered forbs.

1.2.1.7 Mule-fat Scrub

Mule-fat scrub is limited, covering 2.1 acres (less than 1 percent) of the site. This habitat type is characterized by localized, dense stands of mule-fat (*Baccharis salicifolia*).

1.2.1.8 Southern Willow Scrub

Southern willow scrub habitat on the NASA-administered property is characterized by arroyo willow (*Salix lasiolepis*) intermixed with occasional red willow (*Salix laevigata*) and narrowleaf willow (*Salix exigua*). This habitat type is uncommon on the site, covering only 1 acre (less than 1 percent). Southern willow scrub occurs in localized patches around scattered ponds and detention basins and along portions of the seasonal drainages within the site.

1.2.1.9 Sandstone Rock Outcrops

Approximately 85 acres (19 percent) of the NASA-administered property is composed of sandstone outcrops. In many areas the outcrops are devoid of vegetation, while in other areas, the rocks are covered with a diverse assemblage of lichens. In some areas, scattered vascular plants are present. Common plants associated with these rock outcrops include bushy spikemoss (*Selaginella bigelovii*), lanceleaf liveforever (*Dudleya lanceolata*), chalk dudleya (*Dudleya pulverulenta*), cliffbrake (*Pellaea* spp.), orange bush monkey flower (*Mimulus aurantiacus*), and Santa Susana tarweed (*Deinandra minthornii*).

1.2.1.10 Ruderal

Ruderal habitat is common around developed areas and areas that have been subject to human disturbance. Ruderal habitats cover approximately 17 acres (4 percent) of the site. Common species observed in these areas include telegraphweed (*Heterotheca grandiflora*), black mustard (*Brassica nigra*), Maltese star-thistle (*Centaurea melitensis*), silver bird's-foot trefoil (*Acmispon argophyllus*), stork's bill (*Erodium* spp.), and common deerweed.

1.2.1.11 Developed

Developed areas include paved roads, parking areas, buildings, test structures, and other developments. Approximately 58 acres, or 13 percent, of the NASA-administered property have been developed.

1.2.2 Climate and Hydrology

Regional climate data were obtained from the Western Regional Climate Center (2011) and the Natural Resources Conservation Service (NRCS) (2002) for Canoga Park, which is approximately 7 miles southeast of SSFL. Climate data are provided in Appendix A. Average temperatures range from a low of about 39 degrees Fahrenheit (°F) in December and January to a high of 95°F in August. Average annual rainfall is approximately 17 inches. The majority of the precipitation, 87 percent of the total, falls between November and March. The growing season, defined as having a 50-percent probability of temperatures at or above 32°F, extends from March 6 through November 28, for a total of 267 days (NRCS, 2002).

Precipitation has been measured at SSFL at two onsite monitoring stations since 1960. Precipitation at SSFL is normally in the form of rain, although snow occasionally has fallen during winter months. Precipitation at the site averaged approximately 18.5 inches per year between 1960 and 2008. Annual precipitation has ranged from a low of 6.15 inches in 2007 to a maximum of 41.24 inches in 1998. There was no measurable precipitation in the 2 weeks immediately prior to the wetland delineation field survey, and regional rainfall during December was approximately 40 percent of the average. Overall rainfall in the region between November 1 and December 31, 2011, was approximately 30 percent below the average for this time of year, due largely to slightly above average rainfall during November.

Area I and the northern portion of Area II are located in the 41,142-acre Simi-Valley Hydrologic Sub-Area, which is part of the Calleguas-Conejo Hydrologic Area in the Calleguas Watershed (Hydrologic Unit Code [HUC] 18070103) (CalWater, 2004). Drainage in this area flows north and connects to the drainage in Meier Canyon, which subsequently discharges into Arroyo Simi. Arroyo Semi flows west into Arroyo Las Posas, a tributary to Calleguas Creek, which flows into the Pacific Ocean. Appendix B provides the watershed areas and streams included in the National Hydrology Dataset (NHD) on the NASA-administered property of SSFL.

The southern part of Area II is located in the 184,398-acre Bull Canyon Hydrologic Sub-Area, which is part of the San Fernando Hydrologic Area in the Los Angeles Watershed (HUC 18070105) (CalWater, 2004). Most of the surface water in this area runs off the southern property boundary into the Southwestern Drainage (referred to as Bell Creek on the U.S. Geological Survey [USGS] Calabasas topographic quadrangle map), which subsequently discharges into the Los Angeles River, which flows into the Pacific Ocean (Appendix B).

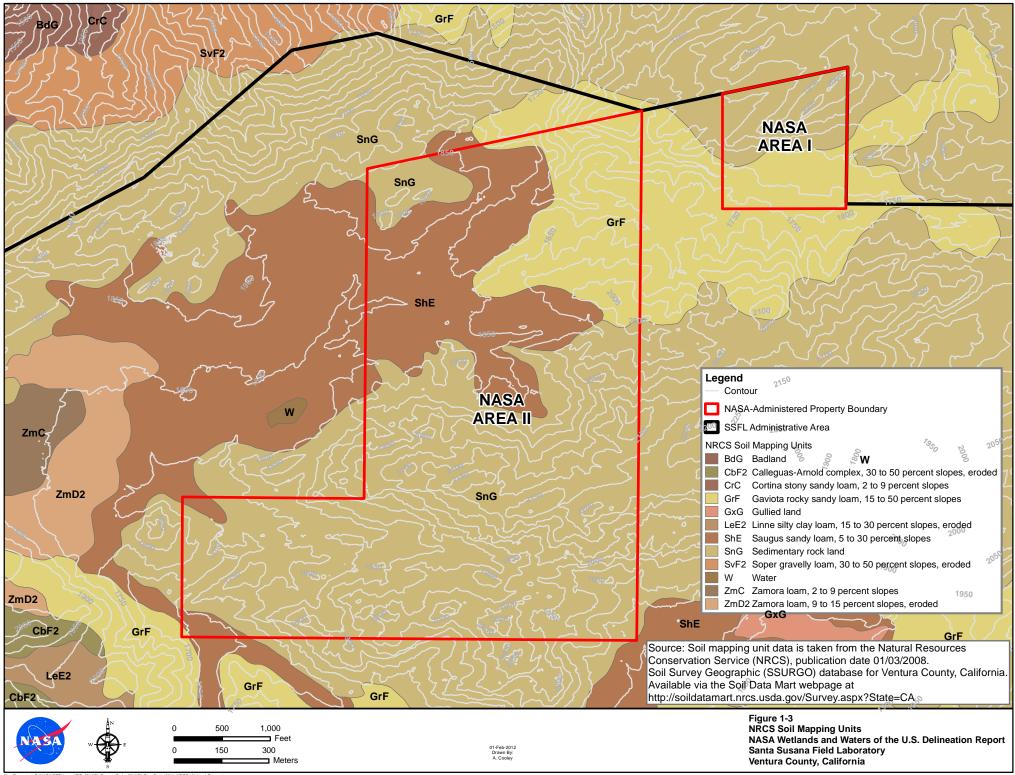
1.2.3 Soils

Information about soil types within the wetland study area was obtained from the Soil Survey for Ventura County, Web Soil Survey (NRCS, 2012a) and official NRCS (2012b) soil series descriptions. Three NRCS-mapped soil types occur within the NASA-administered property (NRCS, 2012a). These soil types are described generally in the following text; their distribution on the property is shown in Figure 1-3. The soil colors described in the following sections are all for moist soils. Appendix C contains additional soil information.

GrF–Gaviota rocky sandy loam, 15- to 50-percent slopes. This soil-mapping unit occurs in the southern half of Area I and in the northeastern corner of Area II. These soils formed in material weathered from hard sandstone or meta-sandstone and are found on hills and mountains. These soils have a very shallow or shallow-to-lithic (bedrock) contact. In a typical profile the surface layer to a depth of 10 inches is a brown (7.5 YR 4/4) gravelly loam underlain by hard meta-sandstone. These soils are well to excessively well-drained with very low to very high runoff and moderately rapid permeability.

ShE–Saugus sandy loam, 5- to 30-percent slopes. This soil mapping unit occurs in the northwestern and southwestern portions of Area II. This unit consists of deep, well-drained soils that formed from weakly consolidated sediments found on dissected terraces and foothills. In a typical profile the soil is a dark grayish brown (10YR 4/2) loam in the upper 25 inches with gravel content ranging from 5 to 15 percent (increasing with depth). These soils have medium to rapid runoff and moderate permeability.

SnG–Sedimentary rock land. This soil mapping unit occurs in the northern half of Area I and in the northwestern corner and southern half of Area II. This mapping unit consists mostly of exposed sedimentary rock with very thin, discontinuous areas of soil. There is little available information about this mapping unit; however, the potential for erosion is expected to be relatively low, with rapid runoff and very low permeability.



A wetland delineation field survey was completed between January 3 and 6, 2012, by CH2M HILL wetland ecologists Russell Huddleston and Steve Long. The purpose of the survey was to identify the limits of wetlands and other waters on the 451.2 acres of NASA-administered property at SSFL (Figure 1-2). The following subsections describe the prefield investigations, field sampling procedures, methods used to delineate and map the wetland boundaries, and wetland classifications.

2.1 Prefield Investigation

Prior to conducting the field work, relevant information pertaining to site conditions was reviewed. The following materials (provided in the appendixes, as indicated) were included in this data review:

- USGS Calabasas quadrangle topographic map and the NHD (Appendix B)
- NRCS-mapped soils and soil series descriptions (Figure 1-3; Appendix C)
- The National Wetland Inventory (NWI) (Appendix D)

2.2 Wetland Delineation

Wetlands are defined as areas that are "inundated by surface water or groundwater with a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas" (Title 40 *Code of Federal Regulations* [CFR], Section 230.3, and Title 33 CFR, Section 238). The survey methodology followed the *Wetland Delineation Manual* (Environmental Laboratory, 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual*: Arid West Region (USACE, 2008).

Wetland determination data points were established at 10 locations, including 5 wetland data points and 5 upland data points (see the figures in Section 3). Sample points were located in areas that were considered to be representative of the wetland boundary being delineated. Appendix E includes the wetland determination data sheets. The following subsections describe the field methods used during the wetland delineation.

2.2.1 Vegetation

At each sample point, plant species were identified and the percent cover was visually estimated and recorded. Herbaceous vegetation was sampled in an approximately 5-foot radius around the sample point. Taxonomic designations follow *The Jepson Manual: Vascular Plants of California* (Baldwin et al., 2012). The *National List of Plant Species that Occur in Wetlands* (Reed, 1988) was used to evaluate the wetland indicator status of each plant species identified. Dominant species included the most abundant species whose cumulative cover accounted for at least 50 percent of the total cover, and any single species that accounted for at least 20 percent of the total vegetative cover. Appendix F provides a list of plant species observed at the sample points and of other common species observed throughout the wetland study area during the field survey.

2.2.2 Soils

Descriptions of soils were made by examining test pits that had been excavated using a tile spade that ranged in depth from 5 to 24 inches. In some areas, the depth of excavation was limited by shallow sandstone contact. At each data point, soil morphological features such as texture, color, and redoximorphic features (if present) were noted. Soil texture was estimated in the field by feel (Thien, 1979), and moist soil colors were determined using

Munsell color charts. In areas where no hydric soil indicators were observed, hydric conditions were assumed to be present where the following conditions existed:

- Dominant vegetation was composed entirely of obligate and facultative wetland plant species.
- There was evidence of seasonal wetland hydrology.
- There was a noticeable difference between the wetland and adjacent upland habitat.

2.2.3 Hydrology

The presence of wetland hydrology was determined based on current as well as previous field observations of saturation and/or inundation, water staining, sediment deposits, and drift deposits. Seasonal rainfall, site drainage, landscape position, and general site topography also were taken into consideration while making wetland hydrology determinations.

2.2.4 Wetland and Water Boundary Mapping

A Trimble Geo-XT global positioning system (GPS) device was used to map the limits of the wetland boundaries. Wetland boundaries were determined in the field based on observations of hydrophytic vegetation, evidence of wetland hydrology, and onsite microtopography. Because most of the soils lacked evidence of hydric indicators, soil characteristics generally were not useful in differentiating the wetland boundaries.

2.3 Delineation of Nonwetland Waters of the United States

Nonwetland waters of the U.S. include such things as rivers, streams, lakes, and ponds. In the absence of adjacent wetlands, the jurisdiction of the USACE extends to the limits of the ordinary high-water mark, which is defined as "the line on the shore established by fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of the soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas" (33 CFR 328.3 [e]).

Linear features such as creeks and drainages were delineated by walking the channel bed, to the extent possible, and noting the characteristics of the feature such as substrate, in channel and adjacent vegetation, evidence of flow and hydrologic modifications such as culverts or weirs. To the extent possible, the channel bed was mapped in the field with a Trimble Geo-XT. The ordinary high water was determined and measured at representative cross sections (reference the Section 3 figures) based on observed water staining, drift and debris deposits, sediment deposits, scouring, and other indicators of ordinary high-water flows. Stream data sheets are provided in Appendix F and representative site photographs are provided in Appendix G. In total, 54 stream data sheets were completed within the NASA-administered property. The locations where stream sample points were established corresponded generally to the upper; middle, and lower ends of a particular stream segment (reach), adjusting for other significant features such as tributaries and obstructions (dams or diversions).

Nonlinear features including ponds and impoundments were delineated based on the extent of the ordinary highwater mark as determined by indicators such as water staining and sediment deposits. Emergent wetland vegetation was present in some areas but occurred below the limits of the ordinary high water, and therefore, was not considered to be adjacent. The limits of the ordinary high water were then mapped using a Trimble Geo-XT.

2.4 Classification

Classification of wetlands and other waters identified during the survey follows the *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin et al., 1979). This classification methodology was developed by the U.S. Fish and Wildlife Service as part of the NWI program. The hierarchical classification includes systems, subsystems, and classes to generally categorize the various aquatic habitats. Modifiers are used to denote specific water regimes and/or highly altered areas (excavated or impounded wetlands). Additional details regarding the classification of wetlands identified on the NASA-administered property are provided in Section 3.

3.1 Survey Conditions

No significant recent disturbance was observed; however, the rainfall between November 1 and December 31, 2011, was approximately 30 percent below average. Therefore, the wetlands and drainages might have been drier than would normally be expected for this time of year. In most areas, the ordinary high-water marks clearly were expressed as water marks and/or drift lines. Additionally, the drainages generally had clearly expressed and well-defined channels. For these reasons, the dry seasonal conditions did not preclude an effective delineation of the wetland boundaries and ordinary high-water marks.

3.2 Wetlands and Waters

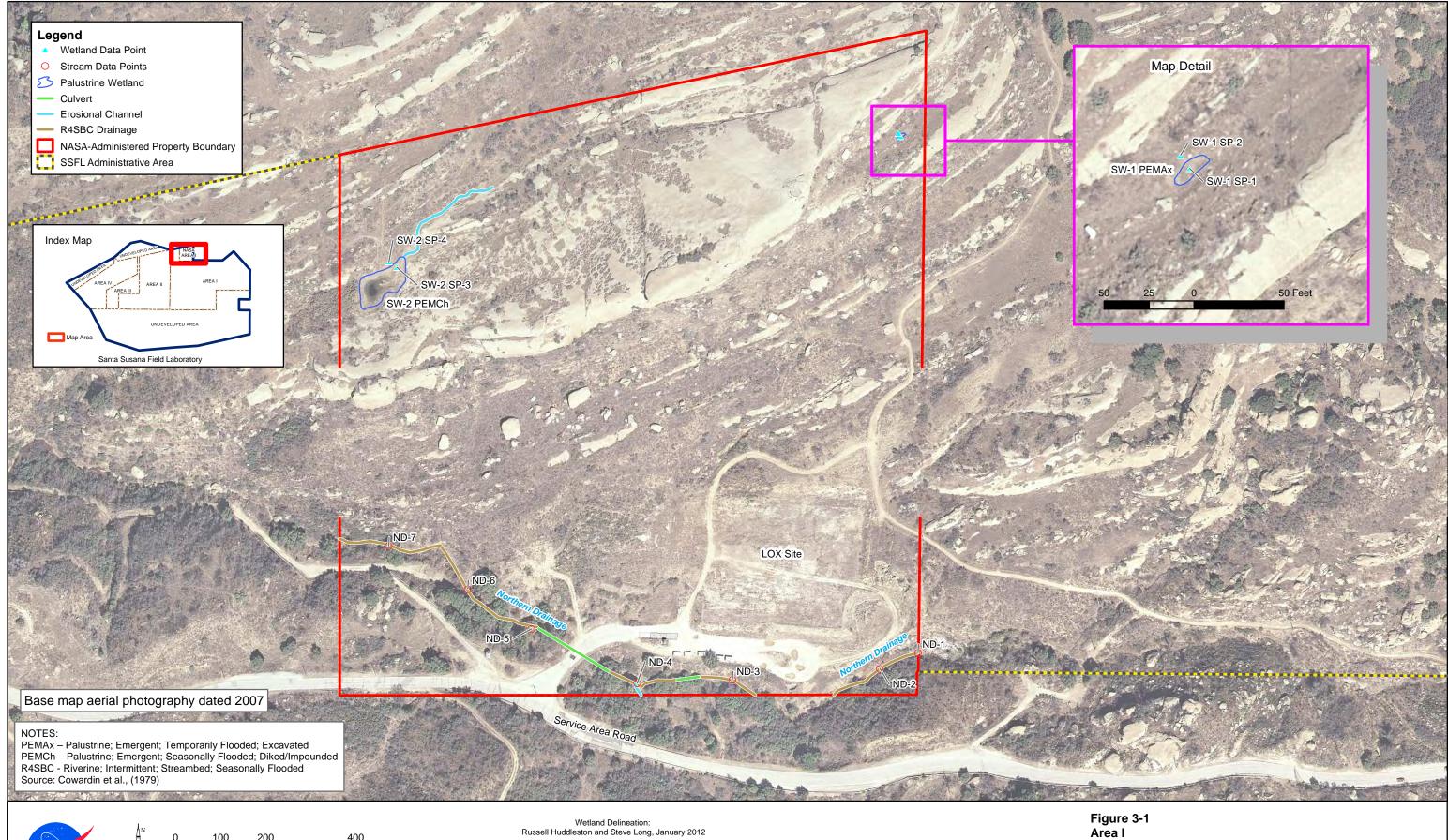
As listed in Table 3-1, 1.348 acres of Palustrine wetlands and 1.879 acres of Riverine wetlands were identified within the 451.2-acre NASA-administered property at SSFL. An additional 0.439 acre of other features (such as swales, asphalt drainage ditches, and overflow culverts) were identified in this area, as well. The wetland locations within the study area are shown in Figures 3-1 through 3-6. Descriptions of the wetlands and other features are provided in the following subsections.

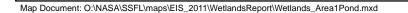
3.2.1 Palustrine Wetlands

Wetlands classified as part of the Palustrine (P) system are nontidal, freshwater wetlands that might be vegetated with trees, shrubs, herbaceous vegetation or mosses, and lichens. Also included are wetlands lacking such vegetation but with all of the following four characteristics: 1) the total area is less than 20 acres; 2) there are no active wave-formed or bedrock shoreline features; 3) water depth in the deepest part of basin is less than 6 feet at low water; and 4) salinity due to ocean-derived salts is less than 0.5 per mil"/per thousand (‰) (Cowardin et al., 1979). Palustrine wetlands identified on the NASA-administered property fall into two classes: Emergent and Unconsolidated Bottom. The Emergent Class includes wetlands that are characterized by more than 30-percent cover of erect, rooted, herbaceous plants adapted to grow under flooded and/or saturated conditions. The Unconsolidated Bottom Class includes wetlands that are characterized by cobble-gravel, sand, or mud substrates and have less than 30-percent vegetative cover. Water regimes of the Palustrine wetlands identified in the survey area include permanently flooded, seasonally flooded, and temporarily flooded. Descriptions of the Palustrine wetlands are provided in the following subsections.

3.2.1.1 Area I SW-1 (PEMAx)

In the northeastern corner of Area I there is a small (150 square foot) depressional basin that appears to have been excavated. Vegetation observed in the basin during the January 2012 survey included scattered annual plant seedlings of scarlet pimpernel (*Anagalllis arvensis*), smooth cat's ear (*Hypochaeris glabra*), longbeak stork's bill, and black mustard. During the April 2011 botanical surveys, aquatic vegetation observed in this area included water pygmyweed (*Crassula aquatica*), slender woollyheads (*Psilocarphus tenellus*), toad rush (*Juncus bufonius*), and hyssop loosestrife (*Lythrum hyssopifolia*). At the edge of the basin, the surface soil is a brown (10 YR 5/3) sandy loam to a depth of 1 inch, underlain by a mixture of light yellowish-brown (10 YR 6/4) sand and brown (10 YR 4/3) fine sandy loam to a depth of 10 inches. Sandstone rock was encountered at a depth of 10 inches. The small basin was dry at the time of the January 2012 survey, but seasonal precipitation was below the average for the time of year. No definitive evidence of wetland hydrology or hydric soils was observed in this area; however, there is a notable change in the vegetation relative to the surrounding areas, a shallow topographic basin with what appears to be sandstone bedrock at a depth of 10 inches, and past observations of wetland vegetation. Taken together, these characteristics suggest that temporary seasonal ponding is likely to occur under more typical seasonal rainfall conditions.





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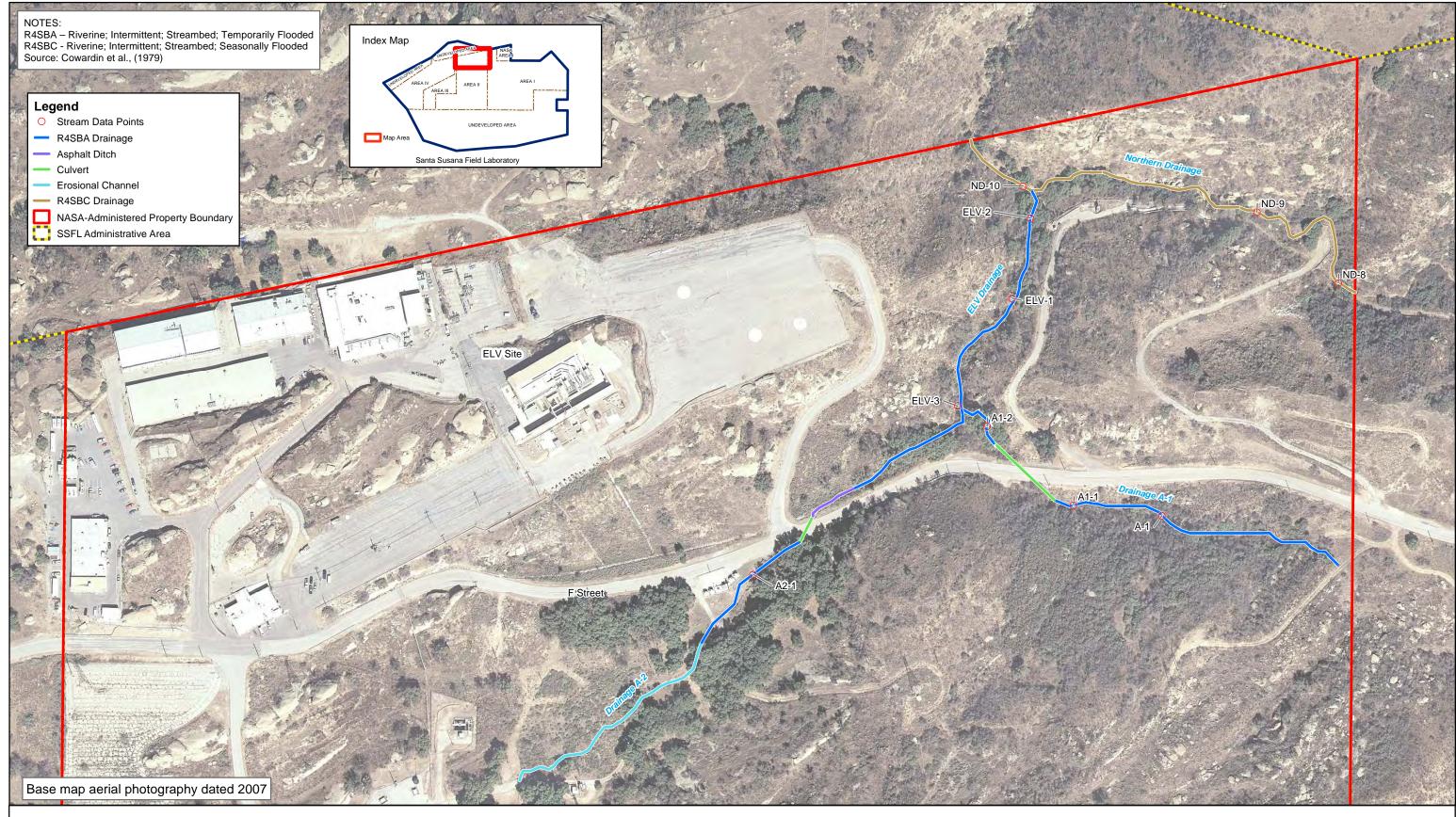
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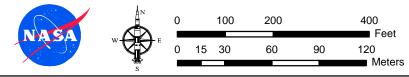
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Il Huddleston and Steve Long, January 2 Drawn By: A. Cooley 27-Feb-2012 Figure 3-1 Area I NASA Wetlands and Waters of the U.S. Delineation Report Santa Susana Field Laboratory Ventura County, California





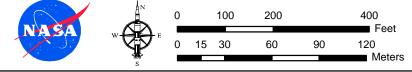
Wetland Delineation: Russell Huddleston and Steve Long, January 2012

> Drawn By: A. Cooley 05-Mar-2012

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Figure 3-2 Area II North NASA Wetlands and Waters of the U.S. Delineation Report Santa Susana Field Laboratory Ventura County, California





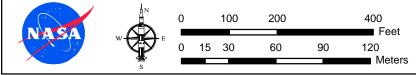
Wetland Delineation: Russell Huddleston and Steve Long, January 2012

> Drawn By: A. Cooley 01-Mar-2012

Map Document: O:\NASA\SSFL\maps\EIS_2011\WetlandsReport\Wetlands_ArealI_CN.mxd

Figure 3-3 Area II - Central North NASA Wetlands and Waters of the U.S. Delineation Report Santa Susana Field Laboratory Ventura County, California





Wetland Delineation: Russell Huddleston and Steve Long, January 2012

> Drawn By: A. Cooley 27-Feb-2012

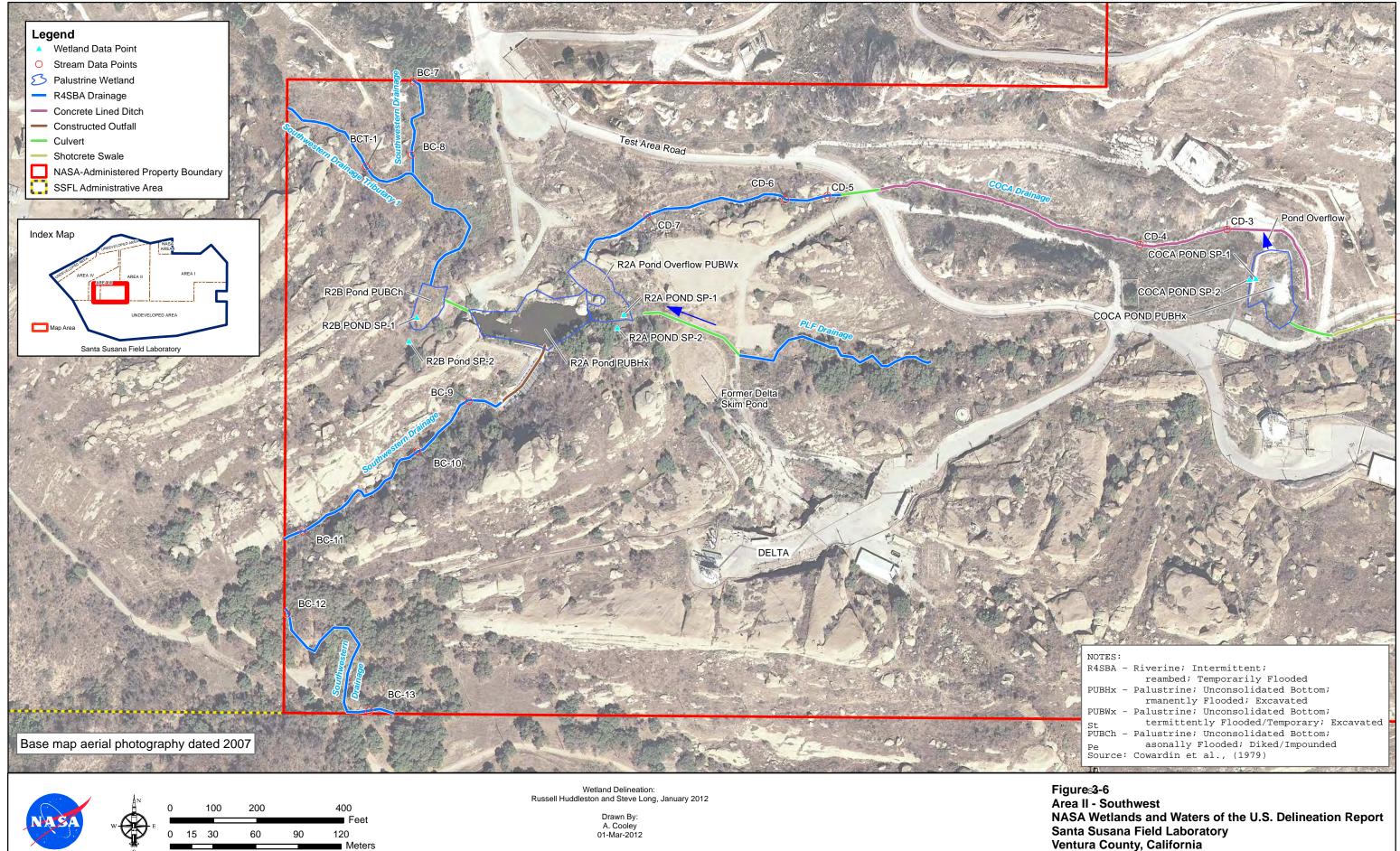
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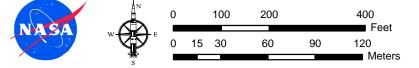
Figure 3-4 Area II - Central South NASA Wetlands and Waters of the U.S. Delineation Report Santa Susana Field Laboratory Ventura County, California



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Santa Susana Field Laboratory Ventura County, California





Map Document: O:\NASA\SSFL\maps\EIS_2011\WetlandsReport\Wetlands_ArealI_SW.mxd

TABLE 3-1 Summary of Wetland Features

Wetland Delineation for the NASA-Administered Po	ortions of SSFL					
Feature ID	Acreage					
Palustrine Wetlands						
SW-1 (PEMAx)	0.003					
SW-1 (PEMCh)	0.152					
R2A Pond (PUBHx)	0.511					
R2A Pond Overflow (PUBWx)	0.226					
R2B Pond (PEMCh)	0.129					
Coca Pond (PUBHx)	0.327					
Total Palustrine Wetlands	1.348					
Riverine Wetlands						
Northern Drainage (R4SBC)	0.488 (3,193 LF)					
Northern Drainage Natural Channel	0.465 (2,176 LF)					
Northern Drainage Culverts	0.023 (1,017 LF)					
ELV Drainage (R4SBA)	0.146 (976 LF)					
ELV Natural Channel	0.138 (862 LF)					
Asphalt Drainage Ditch	0.008 (114 LF)					
Southwestern Drainage (R4SBA)	0.586 (8,826 LF)					
Southwestern Drainage Nature Drainage	0.394 (8,049 LF)					
Southwestern Drainage Concrete Ditch	0.100 (542 LF)					
Southwestern Drainage Culvert	0.004 (65 LF)					
Southwestern Drainage Constructed Outfall	0.088 (170 LF)					
Southwestern Drainage Tributary (R4SBA)	0.034 (371 LF					
Coca Drainage (R4SBA)	0.479 (1,899 LF)					
Coca Drainage Natural Channel	0.203 (655 LF)					
Coca Drainage Concrete Ditch	0.265 (1,155 LF)					
Coca Drainage Culverts	0.011 (89 LF)					
PLF Drainage (R4SBA)	0.040 (758 LF)					
PLF Drainage Natural Channel	0.029 (511 LF)					
PLF Drainage Culverts	0.011 (247 LF)					
Drainage A-1 (R4SBA)	0.060 (911 LF)					
Drainage A-1 Natural Channel	0.050 (724 LF)					
Drainage A-1—Culvert	0.010 (187 LF)					
Drainage A-2 (R4SBA)	0.046 (935 LF)					
Drainage A-2 Natural Channel	0.030 (324 LF)					
Drainage A-2 Erosional Feature	0.013 (547 LF)					
Drainage A-2 Culvert	0.003 (64 LF)					
Total Riverine Wetlands	<i>1.879</i> (17,869)					

MGM12/NASA SSFL/WETLANDS/WETLANDS_DELINEATION.DOCX ES022712225434MGM

TABLE 3-1

Summary of Wetland Features Wetland Delineation for the NASA-Administered F	Portions of SSFL
Feature ID	Acreage

Feature ID	Acreage						
Other Features							
Southwestern Drainage Swale (Alpha)	0.157 (6,860 LF)						
Southwestern Drainage Swale Culverts	0.013 (218 LF)						
Southwestern Drainage Swale Overflow Culvert	0.024 (344 LF)						
Coca—Shotcrete Swale	0.236 (1,027 LF)						
Coca—Shotcrete Swale Culverts	0.009 (68 LF)						
Total Other Features	0.439 (8,517 LF)						

Notes:

ELV = Expendable Launch Vehicle

LF = linear foot PLF = Propellant Load Facility

Surrounding vegetation is characterized by scattered coastal sagebrush, chamise, slender oat, longbeak stork's bill, black mustard, Sandberg's bluegrass (*Poa secunda*), and *Cryptantha* sp. The surface soil in the adjacent area is a brown (10 YR 4/3) loamy fine sand to a depth of 19 inches, and there was no evidence of wetland hydrology.

3.2.1.2 Area I SW-2 (PEMCh)

A second, larger constructed wetland feature, known locally as "horse pond," is near the northwestern corner of Area I (Figure 3-1). The NWI describes the pond as a permanently flooded, excavated wetland with Aquatic Bed vegetation, with adjacent areas mapped as saturated Palustrine Scrub-Shrub wetlands (Appendix C). Field observations indicate that this wetland is more accurately classified as a seasonally flooded Palustrine Emergent wetland that has been created by an impoundment. No adjacent Scrub-Shrub wetlands were identified in this area.

The 0.15-acre wetland is located near the base of a large sandstone outcrop. The basin appears to have been excavated, and an earthen berm has been constructed along the western edge that impounds surface water drainage from the hill slope above. An erosional channel, resulting from channelized runoff, extends approximately 250 feet to the northeast of the wetland (Figure 3-1). Vegetation within the wetland basin is dominated by annual rabbitsfoot grass (*Polypogon monspeliensis*), with lesser amounts of water-starwort (*Callitriche marginata*), tall flatsedge (*Cyperus eragrostis*), rough cocklebur (*Xanthium strumarium*), scarlet pimpernel, purslane speedwell (*Veronica peregrina* subsp. *xalapensis*), and pale spikerush (*Eleocharis macrostachya*). Surface soil is a dark grayish-brown (10YR 4/2), fine sandy loam to a depth of 2 inches underlain by a dark brown (10 YR 3/1) loamy fine sand with less than 2 percent yellowish-red (5 YR 5/6) inclusions in the soil matrix to a depth of 16 inches. Some brown (10 YR 5/3) sand also was observed on the soil ped surfaces between 2 and 9 inches. From 16 to 19 inches, the soil is a dark brown (10YR 4/3) sand. At the time of the January 2012 field survey, some shallow surface water was present in the lowest part of the basin, and a shallow water table was present about 18 inches below the surface, near the outer edge of the basin. Seasonal saturation and inundation were observed in this area during botanical surveys conducted in April and June 2011. Other hydrologic indicators included water marks on the adjacent sandstone rocks and drift deposits.

Vegetation in the adjacent areas includes laurel sumac, chamise, thickleaf yerba santa, black sage, and Sandberg's bluegrass, with sparse amounts of curly dock (*Rumex crispus*) and scarlet pimpernel. A dense thicket of poison oak is present on the earthen berm along the western side of the basin. Surface soil is a dark grayish-brown (10 YR 4/2) fine sandy loam to a depth of 1 inch that is underlain by a mixture of dark grayish-brown (10 YR 4/2) and yellowish-red (5 YR 5/6) fine sandy loam to a depth of 6 inches. From 6 to 17 inches, the soil is a mixture of dark brown (10YR 4/3), dark yellowish-brown (10 YR 4/6), and gray (10 YR 5/1) loamy fine sand. Soils in this area are likely the result of spoils created during the excavation of the pond area. No evidence of wetland hydrology

was observed. The wetland/upland edge is defined by a relatively abrupt topographic break, change in the dominant vegetation, and evidence of ordinary high water such as water marks and drift deposits.

3.2.1.3 R2B Pond (PUBCh)

The 0.13-acre R2B pond is in the southwestern portion of Area II (Figure 3-6). The pond was mapped by the NWI together with the R2A pond as a permanently flooded, excavated Palustrine Unconsolidated Bottom wetland (Appendix C). Field observations as well as topographic and hydrologic maps indicate that this smaller pond was created by impounding the Southwestern Drainage. Although this pond is flooded for much of the year, no surface water was observed in the basin during the August 2011 botanical survey. Therefore, this feature is more accurately classified as a seasonally flooded Palustrine Aquatic Bed wetland that is the result of an impoundment. The R2B pond physically is separated from the R2A pond by a concrete apron and earthen dam, and it appears to serve as a settling pond prior to discharging, via a 36-inch-diameter culvert, into the larger R2A pond to the east.

The bottom of the pond is covered with fallen dead stems of southern cattail (*Typha domingensis*), but most of the pond is characterized by open water. Sparse (senesced) southern cattail and tule (*Schoenoplectus* sp.) stems are present along the southern and western edges of the pond, but they provide only minimal cover. Arroyo willow (*Salix lasiolepis*) and mule fat also are present around the edges of the pond. Soils are very shallow to bedrock (5 inches) and are of dark grayish-brown (10YR 4/2) fine sandy loam. No redoximorphic features were observed. The pond partially was flooded at the time of the January 2012 field survey and had an estimated depth of 24 inches. Water staining and sediment deposits on the concrete apron and drift deposits on the mule fat branches indicate that ordinary high water appears to be around 4 feet deep.

Vegetation in the adjacent uplands includes arroyo willow, mule fat, coyotebrush, poison oak, orange bush monkey-flower, ripgut brome, soft brome, and plumeless Italian thistle (*Carduus pycnocephalus*). The surface soil is a dark grayish-brown (10 YR 4/2) loamy fine sand to a depth of 18 inches. No redoximorphic features were observed, and there was no evidence of wetland hydrology. The wetland/upland edge is defined by changes in the dominant vegetation, presence and absence of ordinary high-water marks, and a relatively gradual transition to bedrock outcrop that surrounds the wetland on the western, southern, and eastern sides.

3.2.1.4 R2A Pond (PUBHx/PUBWx)

The 0.74-acre R2A pond is in the southwestern portion of Area II (Figure 3-6). This feature is mapped together with the R2B pond by the NWI as a permanently flooded, excavated Palustrine Unconsolidated Bottom wetland (Appendix C).

The R2A pond is a large constructed pond that receives inflows from the R2B pond via a 36-inch-diameter culvert on the western side and two ephemeral drainages on the eastern side (Figure 3-6). Water levels within the pond actively are managed through a system of pumps and large-volume plastic pipes (intake and outtake) used to transfer water between the R2A pond and the larger Silvernale pond, located to the north-northeast, outside the NASA-administered property. The water transfers are used to minimize surface water discharges into the Southwestern Drainage below the R2A pond. In the event that both the Silvernale and R2 ponds exceed their water storage capacities, there is an overflow spillway and constructed outfall along the southern side of the pond designed to capture sediment before the water is discharged into the downstream section of the Southwestern Drainage.

The western part of the pond was flooded with several feet of water at the time of the January 2012 survey. During previous biological surveys, in 2010 and 2011, surface water was observed at various levels, but the basin was never completely dry. With the exception of a few small patches of narrow-leaf cattail, the western part of the pond generally lacks emergent vegetation. The extent of the ordinary high water in this area was mapped based on water marks on the surrounding sandstone rocks.

The eastern portion of the pond was dry at the time of the January 2012 survey, and no surface water was observed in this part of the pond during any of the 2011 spring and summer botanical surveys. This part of the pond appears be used only for excess water storage, and therefore, was considered to be only intermittently flooded. Extensive dead tule stems litter the bottom of the pond in this area, suggesting that at one time dense

emergent vegetation was present. Currently, vegetation is limited to a few small, scattered mule fat shrubs and occasional tall flat sedge. No live rhizomes or erect, senesced tule stems were present. The upper 2 inches of the soil consist of a very dark grayish-brown (10 YR 3/2) mixture of layered organic material, fine sand, and silt. From 2 to 6 inches, the soil is a mixed very dark grayish-brown (10 YR 3/2) and yellowish-brown loamy fine sand that is underlain by a very dark grayish-brown (10 YR 3/2) fine sandy loam with approximately 2-percent black (10 YR 2/1) and 8-percent dark yellowish-brown (10 YR 4/4) inclusions in the matrix. Although the eastern part of the pond was dry at the time of the survey and appears to be only intermittently flooded, water stains on the adjacent rocks were used to map the extent of the previous ordinary high-water level in this area.

Vegetation in the areas around the pond includes coast live oak, arroyo willow, mule fat, coyotebrush, poison oak, ripgut brome, and branching phacelia (*Phacelia ramosissima*). Surface soil is a very dark grayish-brown (10 YR 3/2) loamy fine sand to a depth of 2 inches underlain by a mixture of dark gray (10YR 4/1) and dark yellowish-brown (10YR 4/4) loamy fine sand to a depth of 14 inches. Between 14 and 24 inches, the soil is a brown (10 YR 4/3) loamy fine sand. No redoximorphic features were observed, and there was no evidence of wetland hydrology.

3.2.1.5 Coca Pond (PUBHx)

The Coca Pond is in the southeastern portion of Area II (Figures 3-5 and 3-6). This feature is mapped as a permanently flooded, excavated Palustrine Unconsolidated Bottom wetland by the NWI (Appendix C).

The 0.33-acre Coca Pond is a constructed pond at the downslope end of a shotcrete swale originating at the Coca test stands to the east (Figure 3-5). The shotcrete swale terminates in a settling basin southeast of the pond, on the southern side of a paved access road. Two 36-inch-diameter culverts that connect to the Coca pond are located in the bottom of the settling basin (Figure 3-5). These culverts were sealed closed at the time of the January 2012 site visit. An overflow discharge on the northern side of the pond empties into a concrete-lined ditch that conveys water west, where it passes beneath Test Area Road and enters a natural ephemeral drainage leading into the northeastern corner of the R2A pond (Figure 3-6).

Along the western side of the pond, some organic soils have accumulated along the concrete apron. In this area, as in others, primarily along the northern side of the pond, southern cattail is present, but it provides less than 30-percent cover. The organic soils are a black (10 YR 2/1) fine sandy loam to a depth of 10 inches with no redoximorphic features. Most of the pond is characterized by open water that was estimated to be between 3 to 4 feet deep at the time of the January 2012 survey. Surface water has been observed in this pond at various times throughout the year during previous biological surveys. The extent of the ordinary high-water mark was established based on water staining on the concrete lining and rocks around the pond.

Characteristic vegetation in the adjacent area includes laurel sumac, thickleaf yerba santa, common deerweed, and branching phacelia. Surface soil is a dark yellowish-brown (10 YR 4/4) mixed with a small amount of very dark grayish-brown (10 YR 3/2) sandy loam to a depth of 10 inches. From 10 to 19 inches, the soil is a light olive brown (2.5 YR 5/4) sand. No redoximorphic features were observed, and there was no evidence of wetland hydrology.

3.2.2 Riverine Features

Wetlands classified as part of the Riverine (R) system include wetlands that are contained within a channel, with the exception of channelized wetlands dominated by trees, shrubs, or persistent emergent vegetation and channels containing ocean-derived salts in excess of 0.5 ‰. Under this system, a channel is defined as "an open conduit either naturally or artificially created which periodically or continuously contains moving water, or which forms a connecting link between two bodies of water" (Cowardin et al., 1979). All of the Riverine wetlands identified on the NASA-administered property are in the Intermittent Subsystem, which includes channels that contain flowing water for only part of the year. When water is not flowing, it might remain in isolated pools or surface water might be absent.

The Riverine wetlands identified on the NASA-administered property are included in the Stream Bed Class, a broad classification that includes a variety of substrates depending on the gradient of the channel, the velocity of the water, and the sediment load of the stream. Common stream bed substrates include bedrock rubble, cobble-gravel, sand, and mud. Although not specifically included in the classification system, for the purpose of this

report, sections of natural drainages that have been concrete lined were included in the Stream Bed Class. Water regimes associated with the Riverine Intermittent wetlands identified in the survey area include seasonally flooded and temporarily flooded. Descriptions of the Riverine wetlands are provided in the following subsections.

3.2.2.1 Northern Drainage (R4SBC)

The Northern Drainage passes through the southern portion of Area I and the northeastern portion of Area II (Figures 3-1 and 3-2). This drainage feature is shown as a blue line stream on the USGS Calabasas topographic quadrangle map and also is included in the NHD as an intermittent stream (Appendix D). The NWI has mapped this area as a temporarily flooded Palustrine Scrub-Shrub wetland (Appendix C). According to onsite staff, water often flows through this area for several months; therefore, this water feature is more appropriately classified as a seasonally flooded Riverine Intermittent Streambed wetland.

In the southeastern corner of Area I, the channel is confined by steep side slopes ranging from approximately 8 to 10 feet high. The approximately 8-foot-wide channel bed is characterized by a rocky-cobble substrate with some sand and gravel. Vegetation is largely absent with the exception of sparse scattered herbaceous species such as annual rabbitsfoot grass (Polypogon monspeliensis), plumeless Italian thistle, and curly dock. The channel was dry at the time of the January 2012 survey, but seasonal rainfall was below the average for this time of year. Evidence of flow observed during the survey included drift and debris deposits approximately 24 inches above the channel bottom in some areas, as well as the general absence of upland vegetation. At the western end of this reach, water flows through a 48-inch-diameter culvert under an old and abandoned unpaved roadway. The channel characteristics generally are similar downstream of the culvert, with steep banks and an approximately 8-footwide channel, but the substrate becomes more sandy and gravelly, with scattered cobble and sandstone rocks. Vegetation essentially is absent except for scattered seedlings of plumeless Italian thistle and black mustard. A small erosional channel, approximately 2 feet wide and along the southern bank, flows directly in the stream in this area (Figure 3-1). West of the erosional channel the stream enters a 52-inch-diameter culvert under the gravel access road to the Liquid Oxygen (LOX) site (Figure 3-1). East of the culvert the channel bed widens to an average of 12 feet and has a sandy substrate with gravel, cobble, and sandstone boulders present in scattered locations. As with other sections of this drainage, vegetation in this reach is sparse and includes scattered plumeless Italian thistle, smilograss (Piptatherum miliaceum), annual rabbitsfoot grass, curly dock, and mule fat.

Coast live oak riparian vegetation is present along the upper banks of the channel throughout Area I. Coast live oak is the sole dominant tree in this area. One arroyo willow tree (approximately 5 inches in diameter at breast height) also is present along the drainage in Area I. Common shrubs along the upper banks include toyon (*Hertermeles arbutifolia*), chamise, poison oak, mule fat, coastal sagebrush, thickleaf yerba santa, Mendocino bush mallow, hoaryleaf ceanothus (*Ceanothus crassifolius*), American black elderberry (*Sambucus nigra* ssp. *caerulea*), and chaparral current (*Ribes malvaceum*). Herbaceous species include smilograss, branching phacelia, black mustard, plumeless Italian thistle, and bedstraw (*Galium* sp.).

In the northeastern corner of Area II, the channel width ranges between 6 and 14 feet (average width of 9 feet), with defined side banks in most areas. The channel substrate along the eastern boundary of the site is sandy, with scattered cobble and sandstone rock. As the channel continues to the west, the substrate becomes rockier, with some sections of the channel characterized by large sandstone boulders. Throughout Area II, vegetation is absent to sparse and includes scattered mule fat, annual rabbitsfoot grass, plumeless Italian thistle, smilograss, curly dock, and orange bush monkey flower. The entire reach of the channel through Area II was dry during the January 2012 surveys, but there was evidence of flow, including drift and debris deposits and an absence of vegetation. No culverts are present in this section of the drainage. There is one ephemeral tributary (the Expendable Launch Vehicle [ELV] Drainage) that enters the stream east of the ELV Site (Figure 3-2).

Coast live oak riparian woodland is present along the upper banks of the channel throughout Area II. Coast live oak is the dominant tree species, but scattered arroyo willow and California laurel (*Umbellularia californica*) trees are present in some areas. Shrub species along the upper banks include toyon, heart-leaved penstemon (*Keckiella cordifolia*), poison oak, California blackberry (*Rubus ursinus*), orange bush monkey flower, birchleaf mountain mahogany (*Cercocarpus betuloides*), and black sage. Common herbaceous species include smilograss, plumeless Italian thistle, and branching phacelia.

3.2.2.2 ELV Drainage (R4SBA)

The ELV Drainage is east of the ELV Site and helicopter landing area, in the northeastern part of Area II. This drainage is a direct tributary to the Northern Drainage (Figure 3-2). Upstream of the confluence with the Northern Drainage, the channel bed width ranges from approximately 4 to 10 feet and is characterized by a sandy-gravel substrate, devoid of vegetation. The upper section of this drainage, parallel to F Street, has been lined with asphalt. Large sandstone rocks and boulders also occur in some sections of the channel. Abundant downed woody debris is present in the upper reaches of the channel, particularly in the section that parallels F Street. Flows in this area appear to be temporary, short-duration events in response to storm events. Evidence of flow in this area included some areas of scouring and debris deposits.

Common vegetation along the upper slopes of the channel includes coast live oak, California laurel, poison oak, Mendocino bush mallow, hairy ceanothus (*Ceanothus oliganthus*), chamise, toyon, laurel sumac, coastal sagebrush, canyon sunflower (*Venegasia carpesioides*), orange bush monkey flower, chaparral current, California wildrose (*Rosa californica*), smilograss, plumeless Italian thistle, and branching phacelia. Two additional channels, Drainage A-1 and Drainage A-2, also flow into this feature (Figure 3-2).

3.2.2.3 Drainage A-1 (R4SBA)

Drainage A-1 is in the northeastern part of Area II and is a tributary to the ELV Drainage (Figure 3-2). On the southern side of F Street are a large amount of boulder riprap and a 29-inch plastic culvert. In the immediate vicinity of the riprap and culvert, the area is a low topographic swale. The only defined drainage feature in this area is a narrow (1- to 2-foot-wide) sandy channel with scattered cobbles that extends east through relatively dense chaparral vegetation (Figure 3-2). It is likely that this area receives additional overland stormwater flows from the hill slope to the south. On the northern side of the road, the channel is approximately 7.5 feet wide with a sandy-cobble substrate, with some asphalt debris also present. No vegetation was present in the channel north of F Street. Evidence of flow in this area included a relatively defined, unvegetated channel and sparse debris deposits. It is likely that this drainage conveys only temporary, short-duration surface flow in response to major storm events.

Vegetation along the channel includes coast live oak, Mendocino bush mallow, chaparral current, laurel sumac, coyotebrush, thickleaf yerba santa and black sage, branching phacelia, and plumeless Italian thistle.

3.2.2.4 Drainage A-2 (R4SBA)

Drainage A-2 is on the southern side of F Street and is tributary to the ELV Drainage via a 24-inch-diameter culvert (Figure 3-2). The channel immediately south of the road is approximately 6 feet wide and has a defined bed and bank, but as it continues south, it gradually becomes a much smaller discontinuous erosional feature. The channel on the southern side of F Street has a sandy substrate that is largely devoid of vegetation with the exception of scattered small poison oak and orange bush monkey flower plants growing along the upper edges of the banks in the area near the road. On the northern side of the road, the culvert discharges into an asphalt drainage ditch. No evidence of recent flow was noted in the channel at the time of the survey.

Adjacent vegetation includes coast live oak, poison oak, plumeless Italian thistle, giant ryegrass (*Elymus condensatus*), branching phacelia, ripgut brome, and two-color rabbit tobacco (*Pseudognaphalium biolettii*).

3.2.2.5 Southwestern Drainage (R4SBA)

The Southwestern Drainage originates just beyond the western edge of the Alfa test stand, where it traverses from east to west through the central-north portion of Area II and around the northern side of the Storage Propellant Area (SPA) site (Figure 3-3). In this area the drainage is indicated as a blue line stream (called Bell Creek) on the Calabasas USGS topographic quadrangle maps and also is shown as an intermittent stream in the NHD. The NWI maps also indicate sections of the drainage as seasonally flooded Palustrine Scrub-Shrub wetlands (Appendix C). The upper reaches of the drainage have been highly altered by culverts, weirs, and earthen dams. In this area there is no defined channel, and no ordinary high-water-mark indicators were observed during the January 2012 survey.

The eastern section of the drainage originates at a 24-inch-diameter culvert outfall near the Alfa test stands (Figure 3-3). At the outfall, more than half of the culvert was filled with sediment and there is no defined channel or evidence of scouring immediately downstream of this location. Vegetation below the outfall is dominated by common iceplant (*Mesembryanthemum crystallinum*), with scattered black mustard and plumeless Italian thistle intermixed.

West of the culvert outfall there is no defined bed and bank feature; rather, the drainage is a characterized low sandy topographic swale that lacks evidence of flowing water, but vegetation within the swale includes riparian species such as mule fat and arroyo willow. Many of the willows were burned and dead as a result of the 2005 Topanga Canyon Fire, and overall, the willows and mule fat appeared to be in poor condition throughout this area.

Upland species including common iceplant, plumeless Italian thistle, ripgut brome, crimson fountain grass (*Pennisetum setaceum*), slender oat and Maltese star-thistle (*Centaurea melitensis*) also were abundant throughout the eastern section of the swale.

Southwest of the westernmost Alfa test stand is a concrete check dam along the swale feature (Figure 3-3). On the southern side of the check dam is a 36-inch-diameter corrugated metal pipe outflow that runs from the top of the check dam west along the hillside on the southern side of the swale (Figure 3-3). A second culvert, with an apparently inoperable flow valve and also located at the check dam, appears to connect to the downstream swale below the dam. Beyond the check dam, the drainage continues along a weakly expressed sandy swale that lacks a defined bed and bank. Most arroyo willows downstream of the dam were burned in the 2005 fire, and no resprouting or regeneration was evident. Most of the swale downstream of the dam is chocked with dead woody debris, with scattered mule fat and abundant plumeless Italian thistle.

An earthen dam is approximately 275 feet downstream (west) of the concrete check dam (Figure 3-3). The culvert that runs along the southern side of the swale from the check dam discharges down a concrete spillway on the western side of the earthen dam. There is also a low-flow release valve at the base of the earthen dam, although the valve appeared to be inoperable at the time of the survey. As with the other sections of the Southwest Drainage through the Alfa site, the drainage downstream of the earthen dam is a low topographic swale with no defined bed and bank channel. Vegetation below the earthen dam is a mixture of mule fat, poison oak, and plumeless Italian thistle.

Approximately 500 feet west of the earthen dam, the swale terminates in a broad flat area east of an unpaved road and the former (now capped) Alfa/Bravo skim pond. Immediately west of the former skim pond is a concrete headwall and two 24-inch-diameter culverts, both filled more than half way with sediment. The culvert outfalls were not found during the January 2012 survey, but presumably they drain into the sandy, swale that continues from this area west to CLT IV Road. Vegetation within the swale feature west of the double culverts includes arroyo willow, mule fat, coyotebrush, poison oak, Mendocino bush mallow, Douglas's sagewort (*Artemisia douglasiana*), plumeless Italian thistle, and branching phacelia.

At CLT IV Road, the swale terminates at a 50-inch-diameter culvert that passes under the road. On the western side of the road, the culvert discharges into a concrete-lined drainage channel that runs along the northern side of the SPA site (Figure 3-2). The first approximately 50 feet of the concrete drainage channel in this area is nearly completely filled with soil. Slumped soils also were noted in other areas of the channel north of the SPA site. The soil in the concrete channel appears to have come from the SPA site and might be the result of erosion from firefighting activities during the 2005 Topanga Canyon fire. Vegetation along the concrete-lined channel includes thickleaf yerba santa, laurel sumac, coyotebrush, hoaryleaf ceanothus, chamise, poison oak, and mule fat.

The concrete channel terminates approximately 450 feet west of the CLT VI Road (Figure 3-3). West of the concrete-lined drainage channel, the natural channel is approximately 6 feet wide and has a sandy-rocky substrate with some gravel. Evidence of ordinary high-water flows such as drift lines, sediment deposits, and scoring were observed in this section of the drainage. Vegetation generally is absent in the bed of the channel, with the exception of the scattered annual rabbitsfoot grass and plumeless Italian thistle. The natural drainage channel continues west for less than 200 feet before exiting the NASA-administered property (Figure 3-3).

Outside of the NASA-administered property, the drainage turns south and passes through the Silvernale Pond before it continues southward toward the R2B Pond. At the point where drainage re-enters the NASAadministered property, the channel is approximately 5 feet wide with a sandy-gravel cobble substrate that is largely devoid of vegetation other than occasional seedlings of plumeless Italian thistle, black mustard, and blessed milkthistle (*Silybum marianum*). Evidence of ordinary high water in this area consisted primarily of a defined bed and bank channel, some scouring along the channel, and a general absence of upland vegetation. Vegetation along the sides of the channel includes coast live oak, laurel sumac, thickleaf yerba santa, coyotebrush, and a few small arroyo willow seedlings and saplings. The channel immediately north of the R2B pond was inaccessible because of a dense thicket of poison oak.

As described previously, the Southwest Drainage is diverted into the R2B and R2A ponds, where water storage actively is regulated through a system of pumps and pipes to minimize outflows from the NASA-administered property. A constructed discharge designed to capture sediments is located along the southern side of the R2A pond and leads back into the natural drainage channel in the southwestern corner of Area II (Figure 3-6). Downstream of the constructed outfall, the channel is approximately 10 feet wide devoid of vegetation, and consists of a sand-gravel-cobble substrate with some large sandstone boulders. Vegetation along the upper banks of the channel includes coast live oak, mule fat, coyotebrush, poison oak, heart-leaved penstemon, laurel sumac, hoaryleaf ceanothus, thickleaf yerba santa, and chaparral current. Herbaceous vegetation is generally sparse and consists of smilograss and branching phacelia.

Approximately 280 feet of the channel in this section downstream of the R2A Pond was inaccessible because of large sandstone boulders within the channel. The channel area downstream of the large boulders is similar to the area upstream. Scattered vegetation in the sandy-gravel channel in this area includes Douglas' sagewort, curly dock, smilograss, and plumeless Italian thistle. A small section of the channel meanders west, off of the NASA-administered property (Figure 3-6). Near the point where the drainage re-enters the property, the channel broadens slightly to approximately 14 feet, and the substrate becomes slightly more cobblely. In some areas of the channel, smilograss is locally abundant. Along the southwestern property boundary, the channel makes a sharp (90-degree) turn to the east, resulting in a highly eroded bank. The channel in this area is approximately 10 feet wide with a sand-gravel-cobble substrate. Scattered vegetation within the channel includes smilograss, black mustard, plumeless Italian thistle, and California blackberry. Vegetation along the sides of the channel in the southwestern corner of Area II includes coast live oak, California sycamore (*Platanus racemosa*), poison oak, laurel sumac, and creeping snowberry.

3.2.2.6 Southwestern Drainage Tributary (R4SBA)

A small tributary to the Southwestern Drainage originates from west of the NASA-administered Area II near the former Systems Test Laboratory (STL)-IV site (Figure 3-6). The channel is 4 feet wide and has a sandy substrate devoid of vegetation. Evidence of flow includes a well-defined bed and back channel debris deposits and the absence of vegetation. Vegetation along the channel includes coast live oak, coyotebrush, hoaryleaf ceanothus, chaparral current, chamise, plumeless Italian thistle, and black mustard.

3.2.2.7 Coca Drainage (R4SBA)

The Coca drainage originates at the base of the Coca test stands, where the eastern section is characterized by a shotcrete swale that drains into a retention basin connected via culverts to the Coca Pond (Figure 3-5). This feature is shown as a blue line on the USGS Calabasas quadrangle map and is included as an intermittent steam in the NHD and NWI.

To the north and west of the Coca Pond, the channel is contained within an approximately 10-foot-wide concretelined ditch. The ditch continues to Test Area Road, where water is conveyed through two culverts (42- and 24-inch diameters), as shown in Figure 3-6. At the culvert outfall, on the western side if the road, the natural channel is approximately 10 feet wide and characterized by a sandstone bedrock bed with some sand and gravel. Sparse mule fat and scattered black mustard and plumeless Italian thistle are present in the channel in this area. As the channel continues west, the substrate becomes more sandy and gravely, with some large sandstone boulders, and is devoid of vegetation. A few plunge pools with approximately 6 inches of water were observed in this area during the January 2012 survey. Just upstream of the R2A pond, the channel width broadens to approximately 14 feet and is characterized by a sand-and-gravel substrate devoid of vegetation. The channel ultimately discharges into the northern end of the R2A pond overflow area (Figure 3-6).

Vegetation along the concrete-lined portion of the drainage ditch is characterized by common deerweed, Eastern Mojave buckwheat (*Eriogonum fasciculatum* var. *fasciculatum*), black mustard, coyotebrush, thickleaf yerba santa, Mendocino bush mallow, poison oak, laurel sumac, and mule fat. West of Test Area Road, vegetation along the channel is characterized by scattered coast live oak trees as well as thickleaf yerba santa, laurel sumac, chaparral current, orange bush monkey flower, coyotebrush, branching phacelia, plumeless Italian thistle, black mustard, smilograss, and two-color rabbit tobacco.

3.2.2.8 PLF Drainage (R4SBA)

This small drainage feature originates at the base of a large sandstone cliff in the northeastern portion of the Delta site (Figure 3-6). The upstream part of the channel is 1 to 2 feet wide and 6 to 12 inches deep. As the channel continues west, it broadens to 3 feet in some areas and becomes more swale-like. The substrate is primarily sand with a few scattered cobbles, and is devoid of vegetation. At the western terminus, the drainage feature empties into a concrete apron and 24-inch-diameter culvert that eventually discharges near the eastern end of the R2A pond. This channel flows through a live oak woodland with an understory of poison oak, chaparral current, coastal sagebrush, canyon sunflower, branching phacelia, ripgut brome, smilograss, and plumeless Italian thistle.

3.3 Nonwetland Features

A number of features were investigated during the survey that were not considered to be waters of the U.S. Such features included constructed stormwater swales associated with developed areas, culverts at road crossings that were not associated with defined drainage channels, and discontinuous erosional channels and weakly expressed upland swale on the hill slopes. Additionally, former skim ponds that have been capped and a former (now dry) basin that had been used to burn off excess fuels were not considered to be waters of the U.S.

3.4 Preliminary Jurisdictional Determination

The USACE ultimately is responsible for determining the limits of waters of the U.S. subject to regulation under the federal CWA. The results and conclusions presented in this wetland delineation are intended to assist the USACE with its determination of jurisdictional waters of the U.S. The results and conclusions presented in this report are preliminary, pending verification and subsequent approval by the USACE.

The small excavated wetland in the northeastern part of Area I and the larger impounded wetland and associated erosional channel in the northwestern part of Area 1 appear, on the basis of the site investigation, to be isolated. There does not appear to be any significant nexus between these constructed basins and any waters of the U.S. Therefore, these wetlands might not be considered jurisdictional waters of the U.S. subject to regulation under Section 404 of the federal CWA.

The jurisdictional status of the section of the Southwest Drainage through the Alfa site (Figure 3-3) is uncertain. This area lacks a defined bed and bank and there was no evidence of an ordinary high-water flow throughout this section. However, this area appears to be a natural drainage, has been mapped as a blue line on the USGS Calabasas topographic quadrangle, and is included as an intermittent stream in NHD. Although it appears that the natural hydrology has been altered significantly in this area, it could still be considered a water of the U.S. because it is considered part of the Southwestern Drainage, and remnants of the natural drainage are still present. In contrast, the easternmost section of the Coca drainage characterized by a shotcrete swale has been altered so dramatically from its original condition that it is unlikely that this section would be considered a water of the U.S. The cement-lined drainage that originates at the Coca Pond and extends west, eventually becoming a natural drainage, is likely to be considered jurisdictional. Other drainage features identified on the NASA-administered property include extant natural drainages, some of which have been realigned and lined with concrete, but that appear to be natural tributary drainages that would be jurisdictional, and therefore, subject to regulation under Section 404 of the CWA. The R2A, R2B, and Coca ponds appear to have been created along the natural drainage channels and therefore might be considered either impoundments of waters of the U.S. or adjacent to waters of the U.S.

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Appendix A Climate Data

APPENDIX A Canoga Park Pierce Coll, California (041484)

Period of Record Monthly Climate Summary

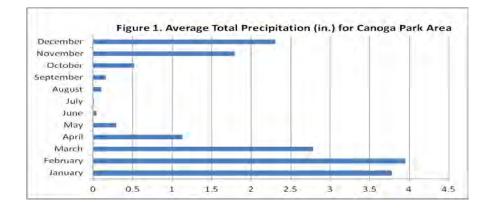
Period of Record: 7/ 1/1949 to 8/10/2011

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec /	Annual
Average Max. Temperature (F)	67.9	70.0	72.3	76.8	81.1	87.4	94.9	95.4	91.7	84.0	74.8	68.8	80.4
Average Min. Temperature (F)	39.3	40.7	41.9	44.6	49.1	53.0	57.0	57.3	54.6	49.0	42.6	38.8	47.3
Average Total Precipitation (in.)	3.78	3.95	2.78	1.13	0.29	0.04	0.01	0.10	0.16	0.52	1.79	2.31	16.86
Average Total Snow Fall (in.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Average Snow Depth (in.)	0	0	0	0	0	0	0	0	0	0	0	0	0

Percent of possible observations for period of record.

Max. Temp.: 99.9% Min. Temp.: 99.9% Precipitation: 99.7% Snowfall: 99.9% Snow Depth: 99.9% Check <u>Station Metadata</u> or <u>Metadata graphics</u> for more detail about data completeness.

Western Regional Climate Center, wrcc@dri.edu



Appendix B Soil Descriptions

APPENDIX B Soil Official Series Descriptions

CA

Gaviota Series

LOCATION GAVIOTA Established Series Rev. GWH/CAF/KP 10/2007

The Gaviota series consists of very shallow or shallow, well drained soils that formed in material weathered from hard sandstone or meta-sandstone. Gaviota soils are on hills and mountains and have slopes of 2 to 100 percent. The average annual precipitation is about 20 inches and the mean annual temperature is about 60 degrees F.

TAXONOMIC CLASS: Loamy, mixed, superactive, nonacid, thermic Lithic Xerorthents

TYPICAL PEDON: Gaviota gravelly loam, grass range. (Colors are for dry soil unless otherwise noted.)

A1--0 to 6 inches; brown (7.5YR 5/4) gravelly loam, brown (7.5YR 4/4) moist; weak medium subangular blocky structure; slightly hard, friable, slightly sticky and slightly plastic; many very fine roots; common very fine tubular pores; neutral (pH 7.0); clear smooth boundary.

A2--6 to 10 inches; brown (7.5YR 5/4) gravelly loam, brown (7.5YR 4/4) moist; massive; slightly hard, friable, slightly sticky and slightly plastic; few very fine roots; common very fine tubular pores; neutral (pH 6.8); abrupt wavy boundary.

R--10 to 17 inches; pale brown (10YR 6/3) hard meta-sandstone.

TYPE LOCATION: Stanislaus County, California; nine miles west of the town of Westley, California; 1,700 feet north and 500 feet east of the southwest corner of section 6, T. 5 S., R. 6 E., MDB&M; USGS Solyo, California Quadrangle, NAD 27.

RANGE IN CHARACTERISTICS: Depth to a lithic contact of hard rock is 6 to 20 inches. The soils become moist below a depth of 6 inches some time between mid-October and mid-December and remain moist all the time in some parts below 6 inches until early April or late May. The mean annual soil temperature is 59 to 64 degrees F. and the soil temperature does not go as low as 41 degrees F. at any time. Texture throughout is sandy loam, fine sandy loam, loam, gravelly sandy loam, gravelly fine sandy loam, and gravelly loam. Clay content is 10 to 18 percent. Rock fragment content is less than 25 percent. Sand content is more than 40 percent of the fine earth fraction. Coarse and very coarse sand content is less than 20 percent.

The A horizon has color of 10YR 6/2, 6/3, 6/4, 5/2, 5/3, 5/4, 5/6, 5/8, 4/3; 2.5Y 6/2, 6/4, 5/2; 7.5YR 5/2, 5/4 or 6/4. Moist values are 4 throughout or if less than 4 they occur only in the upper part or have dry values of 6 or more. Reaction is moderately acid to neutral. Some pedons have a C horizon that differs from the A horizon principally by being one value unit lighter.

COMPETING SERIES: These are the <u>Daulton</u>, <u>Exchequer</u> (CA), <u>Ocraig</u> (CA), <u>Snook</u> (CA) and <u>Whiterock</u> (CA) series. Daulton soils have moist value of 3 and have a massive and hard epipedon. Exchequer soils have less than 50 percent sand in the fine earth fraction. Ocraig soils are neutral, have greater than 20 percent coarse and very coarse sand content. Snook soils are dry in all parts from early June to mid October. Whiterock soils have 25 to 50 percent sand and a mean annual soil temperature of 63 to 67 degrees F. **GEOGRAPHIC SETTING:** Gaviota soils are on hills and mountains. Slope is 2 to 100 percent. These soils formed in material weathered from sandstone and meta-sandstone. Elevation is 200 to 4,400 feet. Rock outcrops are commonly associated with this soil and occupy from less than 2 percent to 50 percent of the surface area. The climate is dry subhumid with hot dry summers and cool moist winters. Mean annual precipitation is 10 to 30 inches. Mean January temperature is about 42 degrees F. and about 56 degrees F. along the coast of California; mean July temperature is about 75 degrees F.; mean annual temperature is about 56 to 65 degrees F. The frost-free season is 175 to 350 days.

GEOGRAPHICALLY ASSOCIATED SOILS: These are the <u>Altamont</u>, <u>Los Gatos</u>, <u>Los Osos</u>, <u>Vallecitos</u> and <u>Wadesprings</u> soils. Altamont soils, on uplands, hills and mountains, have a fine particle-size control section. Los Gatos soils, on mountains, are moderately deep and have an argillic horizon. Los Osos soils, on uplands, have an argillic horizon and a paralithic contact at a depth of 20 to 40 inches. Vallecitos soils, on hills, have an argillic horizon and a clayey particle-size control section. Wadesprings soils, on uplands, have an argillic horizon and magnesic mineralogy.

DRAINAGE AND PERMEABILITY: Well and excessively well drained; very low to very high runoff; moderately rapid permeability.

USE AND VEGETATION: Used mostly for livestock grazing. Some of the less sloping areas are cropped to dryland grain. Natural vegetation is California sage, chamise, manzanita, purple needlegrass and annual grasses.

DISTRIBUTION AND EXTENT: Mostly in the California Coast Ranges. The soils are extensive. MLRA 15, 20.

MLRA SOIL SURVEY REGIONAL OFFICE (MO) RESPONSIBLE: Davis, California

SERIES ESTABLISHED: Stanislaus County (Newman Area), California, 1941.

REMARKS: Soils in the Amargosa series as recognized in the Antelope Valley Area, California are not included in the Gaviota series. Soils formed in material weathered from granite are now excluded from the Gaviota series.

The revision made on 09/96 moves the type location to better represent the series as mapped for the Gaviota series.

CEC/Clay ratio estimated from similar soils with laboratory data in the W. Stanislaus Soil Survey Area.

Runoff terminology adjusted 4/96 to adjective criteria of the Soil Survey Manual, 10/93.

Competing series updated 01/2003.

Warmer January temperatures occur along the southern Coastal range. These were phased until a possible later decision to split these out as separate series.

National Cooperative Soil Survey U.S.A.

SAUGUS SERIES

LOCATION SAUGUS Established Series Rev. GAW/RCH/LCL/ET 03/2003 CA

The Saugus series consists of deep, well drained soils that formed from weakly consolidated sediments. Saugus soils are on dissected terraces and foothills and have slopes of 9 to 50 percent. The mean annual precipitation is about 16 inches and the mean annual air temperature is about 63 degrees F.

TAXONOMIC CLASS: Coarse-loamy, mixed, superactive, nonacid, thermic Typic Xerorthents

TYPICAL PEDON: Saugus loam, brush and grass. (Colors are for dry soil unless otherwise stated.)

A1--0 to 15 inches; grayish brown (10YR 5/2) loam, dark grayish brown (10YR 4/2) moist; weak fine subangular blocky structure; hard, friable, slightly sticky and slightly plastic; common very fine medium and coarse roots; common very fine, few fine tubular and common very fine interstitial pores; about 5 percent gravel by volume; neutral (pH 6.8); gradual smooth boundary. (8 to 17 inches thick)

C1--15 to 25 inches; grayish brown (10YR 5/2) loam, dark grayish brown (10YR 4/2) moist; weak medium subangular blocky structure; hard, friable, slightly sticky and slightly plastic; few very fine, common coarse roots; few very fine tubular, common very fine interstitial pores; about 15 percent gravel by volume; slightly acid (pH 6.5); gradual smooth boundary. (10 to 14 inches thick)

C2--25 to 42 inches; grayish brown (10YR 5/2) loam, dark grayish brown (10YR 4/2) moist; weak medium subangular blocky structure; hard, friable, slightly sticky and slightly plastic; few very fine, common fine and few coarse roots; few very fine tubular, common very fine interstitial pores; contains about 10 percent gravel by volume; slightly acid (pH 6.5); diffuse smooth boundary. (16 to 25 inches thick)

C3--42 to 50 inches; grayish brown (10YR 5/2) weakly consolidated sediments that crush to gravelly heavy sandy loam, dark grayish brown (10YR 4/2) moist; massive; hard, friable, slightly sticky and slightly plastic; few very fine interstitial pores; about 25 percent gravel and 5 percent cobblestones; slightly acid (pH 6.3).

TYPE LOCATION: Los Angeles County, California; in Romero Canyon; NW1/4 NW1/4 section 27, T.5N., R.17W.

RANGE IN CHARACTERISTICS: Depth to a paralithic contact is 40 to 56 inches. Saugus soils are on complex slopes of 9 to 50 percent. The mean annual soil temperature at a depth of 20 inches is 60 degrees F. and the soil temperature is not below 47 degrees F. at any time. Soil between depths of about 5 and 15 inches is continuously dry in all parts from late April or May until late October to early December and is moist in some or all parts all the rest of the year. The soil profile is loam or sandy loam throughout and the 10 to 40 inch control section has less than 18 percent clay. Rock fragments range from 1 to 35 percent and are mostly gravel and a few cobblestones. Usually the amount of rock fragments increases with depth, though in some pedons the immediate surface has a partial layer of fragments. The profile is slightly acid to slightly alkaline and in many pedons the lower part is less acid.

The A horizon is light brownish gray, grayish brown, yellowish brown, brown or pale brown in 10YR or 2.5Y hue when dry. The moist value is 4 or 5. In some pedons the upper 1 to 4 inches is gray, dark gray or dark grayish brown. The upper 7 inches of the A horizon has 0.4 to 1.0 percent organic matter.

The C horizon above the paralithic contact has a color similar to the A horizon or it has one unit higher value.

COMPETING SERIES: These are the <u>Escondido</u>, <u>Hanford</u>, <u>Honcut</u>, <u>Pollasky</u>, <u>Pfeiffer</u>, <u>San Andreas</u>, and <u>Vista</u> series. Escondido and Vista soils have a cambic horizon. Hanford and Honcut soils are on smooth slopes of less than 9 percent and they lack a paralithic contact. Pfeiffer and San Andreas soils have a mollic epipedon. Pollasky soils have a paralithic contact at depths of less than 40 inches.

GEOGRAPHIC SETTING: The Saugus soils are on slopes of dissected terraces and foothills at elevations of 600 to 2,500 feet. Slopes range from 9 to 50 percent. The soils formed in material weathered from weakly consolidated sediments mostly from granitic and closely related rocks. The climate is dry subhumid mesothermal with warm dry summers and cool moist winters. The mean annual precipitation is 14 to 20 inches all in the form of rain. Mean annual temperature is about 63 degrees F., average January temperature is about 54 degrees F., and average July temperature is about 73 degrees F. The freeze-free season is about 250 to 300 days.

GEOGRAPHICALLY ASSOCIATED SOILS: These are the <u>Castaic</u>, <u>Gaviota</u>, <u>Metz</u>, <u>San Andreas</u>, and <u>Sorrento</u> soils. Castaic soils have more than 18 percent clay and have a fine-silty control section. Gaviota soils have a lithic contact less than 20 inches below the surface. Metz soils are sandy and are stratified with layers of finer texture.

DRAINAGE AND PERMEABILITY: Well drained; medium to rapid runoff; moderate permeability.

USE AND VEGETATION: Used for grazing, wildlife, watershed, and small amounts used for industry and urbanization. Native vegetation is chamise and other shrubs plus minor amounts of perennial grasses. Naturalized grasses and forbs make up a small to large portion of the vegetation.

DISTRIBUTION AND EXTENT: Foothills in the western part of southern California. The soils are of moderate extent.

MLRA SOIL SURVEY REGIONAL OFFICE (MO) RESPONSIBLE: Davis, California

SERIES ESTABLISHED: San Bernardino County (Southwestern Part), California, 1972.

REMARKS: The activity class was added to the classification in February of 2003. Competing series were not checked at that time. - ET

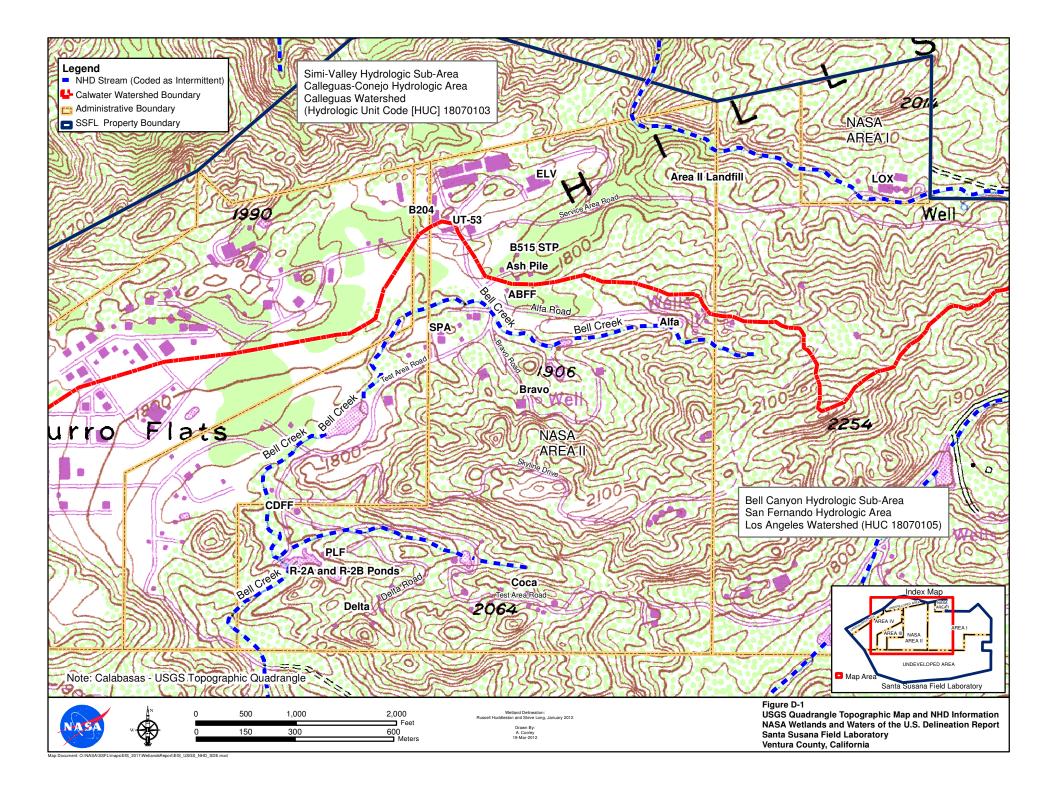
OSED scanned by SSQA. Last revised by state on 10/75.

National Cooperative Soil Survey U.S.A.

Appendix C National Wetland Inventory Map



Appendix D USGS Quadrangle Topographic Map and NHD Information



Appendix E Wetland Determination Data Sheets

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SSFL -COCA PO	~7 0	ity/County: VI	ENTURA CO. Sampling Date: 1/3/Za Z
Applicant/Owner:			State: CA Sampling Point: CocA SP-1
			p, Range: 02N 17W SEC 30 (SBM)
			ave, convex, none): <u>CCACAVE</u> Slope (%): <u>0-2</u>
			36'' Long: 118" 42' 02. 091 Datum: 665 84
		-	
			NWI classification: <u>PUBHX</u>
Are climatic / hydrologic conditions on the site typical fo			No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology			Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology	naturally prot	ematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site m	ap showing	sampling poi	int locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No	in the Ser	npled Area
Hydric Soil Present? Yes	No		Vetland? Yes <u>/ No</u>
Wetland Hydrology Present? Yes	No	WILLING & VI	
VEGETATION – Use scientific names of p	Absolute	Dominant Indica Species? State	
2			
. /			Total Number of Dominant Species Across All Strata:(B)
Sapling/Shrub Stratum (Plot size:)		= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
1		<u></u>	Prevalence Index worksheet:
2			Total % Cover of: Multiply by:
3			OBL species x 1 =
4			FACW species x 2 = FAC species x 3 =
5			
Herb Stratum (Plot size: 0.5m ²)		■ Total Cover	FACU species x 4 =
1. TTPHA DOMINGERSIS	60%	Y 08	UPL species x 5 =
2			Column Totals: (A) (B)
3			Prevalence Index = B/A =
4.			Hydrophytic Vegetation Indicators:
			Dominance Test is >50%

= Total Cover

= Total Cover

TIPHA and AROUND EDGES OF THE POND THE AREA IS OPEN MATTER

Woody Vine Stratum (Plot size: _____)

% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust __

6.

7.

8.

1.

2.

Remarks:

No

- OF

_ Prevalence Index is ≤3.0¹

Hydrophytic

Vegetation

Present?

Morphological Adaptations¹ (Provide supporting

data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must

be present, unless disturbed or problematic.

Yes

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confin Depth Matrix Redox Features										
(inches)	Color (moist)	%	Color (moist)		Type ¹	Loc ²	Texture	Remarks		
0-10	107R2/1	100	2-				FSL	VFr, CRUMB		
		1 2					X 81	FIBRIC -MM		
5 1		1. S.		1				MIXED WLOOSE SAND		
	45 N							AT SURFACE		
			10							
	oncentration, D=Dep									
	Indicators: (Applic					a sana G		ocation: PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils ³ :		
Histosol	(A1)		Sandy Rec	lox (S5)	•			Muck (A9) (LRR C)		
Histic Ep	pipedon (A2)		Stripped Matrix (S6)				2 cm Muck (A10) (LRR B)			
Black Hi	stic (A3)		Loamy Mu	cky Mineral (F1)		Reduced Vertic (F18)			
Hydroge	n Sulfide (A4)			yed Matrix (F			Red	Parent Material (TF2)		
Stratified	Layers (A5) (LRR	C)	Depleted N	Aatrix (F3)				r (Explain in Remarks)		
	ick (A9) (LRR D)	•	— ·	k Surface (F	5)			()		
_	Below Dark Surfac	e (A11)	_	Dark Surface						
<u> </u>	ark Surface (A12)	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	<u> </u>	pressions (F8	• •		³ Indicator	s of hydrophytic vegetation and		
	lucky Mineral (S1)			•	·)			d hydrology must be present,		
	leyed Matrix (S4)		Vernal Pools (F9)				unless disturbed or problematic.			
	Layer (if present):							•		
Type:	NE						_			
Depth (ind	ches):						Hydric So	il Present? Yes No		
Remarks:	SEDIME	~75 ~	CUMULA	TED A	- +	BASE	OF LO	MENT SIDE		
BA	Erow -the					3/1 - 2-		MENT SLOPE		
	715-E	LEVE	con Tito	e por	∇o	you pr	UNE			

HYDROLOGY

Wetland Hydrology Indicators:							
Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required)							
Y Surface Water (A1)							
High Water Table (A2)	Biotic Crust (B12)	Sediment Deposits (B2) (Riverine)					
Saturation (A3)	Aquatic Invertebrates (B13)	Drift Deposits (B3) (Riverine)					
Y Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)					
Sediment Deposits (B2) (Nonriverine)	Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3)						
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)					
Surface Soil Cracks (B6)	Recent Iron Reduction in Tilled Sc	bils (C6) Saturation Visible on Aerial Imagery (C9)					
Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)					
Water-Stained Leaves (B9)	Other (Explain in Remarks)	FAC-Neutral Test (D5)					
Field Observations:							
Surface Water Present? Yes <u>×</u> No	Depth (inches):						
Water Table Present? Yes No	Depth (inches):						
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	_ Wetland Hydrology Present? Yes X No					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Remarks: WATER IN POND JUST BELOW SAMPLE POINT							
WATER MAN ON CEMENS NZET ABOVE SAMPLE POINT							

Project/Site: <u>SSFL</u> - CocA	_ City/County:	Sampling Date:
Applicant/Owner: MASA		te: <u>CA</u> Sampling Point: <u>CCA_SP-Z</u>
Investigator(s): P. HUPPUESTEN, S. LONG	_ Section, Township, Range:	ZN ITN SEC 30 (SBM)
Landform (hillslope, terrace, etc.): TERRACE	_ Local relief (concave, convex, no	ne): NOVE Slope (%): C - 22
Subregion (LRR): Lat:	34° 13' 36. 765" Long:	18° 42' 02.269" Datum: ~65 84
Soil Map Unit Name: SAG SEDIMENTARY R	che LAND	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes No 🔀 🔤 (If a	no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significant	lly disturbed? Are "Normal Ci	rcumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally	problematic? (If needed, exp	ain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showin	ag sampling point locations	s, transects, important features, etc.
Hudrophytic Versteller Descent?		

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No _X Yes No _X Yes No _X	Is the Sampled Area within a Wetland?	Yes No_ <u>×</u>
Remarks: BECON AVE	RAINEALL		

	Absolute		Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:) 1		<u>Species?</u>		Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2		·		Total Number of Dominant Species Across All Strata: (B)
4 (Plot size:)	- 45	_= Total Co		Percent of Dominant Species That Are OBL, FACW, or FAC:
1. MALOSOMA LAURINA	5%		ML	Prevalence Index worksheet:
2. ERIODICTYON CRASSIFOLIUM				Total % Cover of: Multiply by:
3				OBL species x 1 =
4				FACW species x 2 =
5				FAC species x 3 =
		= Total Co	ver	FACU species x 4 =
Herb Stratum (Plot size: / m ²)		(UPL species x 5 =
	90%			Column Totals: (A) (B)
2. PHACMENT RAMOSISSIMA	5%	• <u></u>	M	
3		-		Prevalence Index = B/A =
4				Hydrophytic Vegetation Indicators:
5				Dominance Test is >50%
6				Prevalence Index is ≤3.0 ¹
7				Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
8 Woody Vine Stratum (Plot size:)		= Total Co)ver	Problematic Hydrophytic Vegetation ¹ (Explain)
1) 2.			·	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
% Bare Ground in Herb Stratum 5% % Cove	er of Biotic C	_ = Total Co Crust		Hydrophytic Vegetation Present? Yes No X
Remarks:				

SOIL	
------	--

ICYP ^{# 3/2} 57.	Remarks
Istyle 3/z S7.	
IP-PA 2.57/5/4/2002/2000 StrVD TP Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ³ Location Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ³ Location Histos Capiletable to all LRRs, unless otherwise noted.) Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for I or Muck Histos Epipedon (A2) Stripped Matrix (S6) 2 or Muck Black Histic (A3) Loamy Gueyed Matrix (F2) Red Parent Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Red Parent Stratified Layers (A5) (LRR C) Depleted Dark Surface (F7) Thick Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Dark Surface (F9) wetland hydro Sandy Gleyed Matrix (S4) unless disturi Type: (mches):	IFICTSOFT, UMSBK PARTING TO CRUMB
IPPRICATION Stratp: Stratp: The second strate is a second strate second strate second strate is a second strate second strate is a second strate is a second	
Ype:	F-Fi Gravel / COAFSE S
Ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location histosol Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators fori histosol (A1) Sandy Redox (S5) 1 cm Muck Histosol (A2) Stripped Matrix (S6) 2 cm Muck Black Histic (A3) Loamy Mucky Mineral (F1) Reduced V Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Reduced V Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Red Parent Stratified Layers (A5) (LRR C) Depleted Dark Surface (F7) Thick Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) ³ Indicators of h Sandy Gleyed Matrix (S4) unless disturi Strictible Layer (if present): Type: Hydric Soil Present Type:	VF Med-Fi Poots So
Ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location Histosol (A1) Sandy Redox (S5) 1 cm Muck Histosol (A1) Sandy Redox (S5) 2 cm Muck Histosol (A2) Stripped Matrix (S6) 2 cm Muck Histosol (A3) Loamy Mucky Mineral (F1) Reduced V Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Stratified Layers (A5) (LR C) Depleted Dark Surface (F6) Other (Expl.) 1 cm Muck (A9) (LR D) Redox Dark Surface (F7) Indicators of h Sandy Mucky Mineral (S1) Vermal Pools (F9) wetland hydro Sandy Gleyed Matrix (S4) unless distur Restrictive Layer (If present): Type: Hydric Soil Pres Ype: Performants: ApPEXFS Tre BE First AssociantED Parent YBROLOGY Saturation (A3) Aquatic Invertebrates (B13) Drift D Presence of Reduced Iron (C4) Cray fill Saturation (A3) Aquatic Invertebrates (B13) Drift D Saturation (A3) Aquatic Invertebrates (B13) Drift D Saturation (A3) Aquatic Invertebrates (B13) Drift D Saturation (A3)	K FINE POOTS VFR
tydric Soil Indicators: Indicators: Indicators: Indicators for I Histic Episedon (A2) Sandy Redox (S5) 2 cm Muck Histic Episedon (A2) Stripped Matrix (S6) 2 cm Muck Black Histic (A3) Loamy Gleyed Matrix (F3) Other (Expl Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Expl I cm Muck (A9) (LR D) Redox Dark Surface (F6) Other (Expl Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Indicators of hy Sandy Gleyed Matrix (S4) unless disturi Restrictive Layer (If present): Type: Depth (inches): Hydric Soil Pres Zyper Methank (S1) Vernal Pools (F9) wetland hydric Soil Pres Sandy Gleyed Matrix (S4) unless disturi Remarks: Hydric Soil Pres Methank (B1) (inches): Methank (B11) Water Sandy Cleyed Matrix (S1) Secondary Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) (Nonriverine) Hydrogen Sulfide Odor (C1) Drain: Sufface Water (A1) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) (Nonriverine) Otkized Rhizo	PAN - VWSBK
tydric Soil Indicators: Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators for I Histosol (A1) Sandy Redox (S5) 1 cm Muck Histo Epipedon (A2) Stripped Matrix (S6) 2 cm Muck Black Histic (A3) Loamy Gleyed Matrix (F2) Red Parent Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Expl 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Pepleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Dark Surface (F7) "Indicators of hy Sandy Gleyed Matrix (S4) unless disturf Sandy Gleyed Matrix (S4) unless disturf Sandy Gleyed Matrix (S4) unless disturf Type:	
	on: PL=Pore Lining, M=Matrix. Problematic Hydric Soils ³ :
Black Histic (A3) Loamy Mucky Mineral (F1) Reduced V Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Red Parent I cm Muck (A9) (LRR D) Redox Dark Surface (F6) Other (Expl Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) ³ Indicators of hy Sandy Mucky Mineral (S1) Vernal Pools (F9) wetland hydr Sandy Gleyed Matrix (S4) unless disturt Restrictive Layer (if present): Type:	k (A9) (LRR C)
	k (A10) (LRR B)
Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Expl. 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Pepleted Balow Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) ³ Indicators of hy Sandy Mucky Mineral (S1) Vernal Pools (F9) wetland hydro Sandy Gleved Matrix (S4) unless disturf Restrictive Layer (if present): Type: Hydric Soil Prev Type: Pept (inches): Hydric Soil Prev Pept (inches): Hydric Soil Prev - pr// YDROLOGY Secondary Secondary Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Surface Water (A1) Salt Crust (B11) Water Saturation (A3) Aquatic Invertebrates (B13) Drift Distribution (A3) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayf Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation (A2) Shalk Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation (C4) Crayf Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soil	
1 cm Muck (A9) (LRR D)	nt Material (TF2)
	plain in Remarks)
	hydrophytic vegetation and
	irology must be present,
Restrictive Layer (if present): Type:	irbed or problematic.
Depth (inches):	
Remarks: APPEARS TO BE FILL ASSOCIATED FILL Por P MIL YDROLOGY Wetland Hydrology Indicators: Secondary	
Remarks: APPEARS TO BE FILL ASSOCIATED FILL Por P MIL YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required: check all that apply) Secondary	esent? Yes No <u>_</u> ×
Wetland Hydrology Indicators: Secondary Primary Indicators (minimum of one required; check all that apply) Secondary	
High Water Table (A2) Biotic Crust (B12) Sedim Saturation (A3) Aquatic Invertebrates (B13) Drift D Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Draina Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-S Drift Deposits (B3) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-S Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shalld Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-I Field Observations: Surface Water Present? Yes No Depth (inches): Wetland Hydrology Prof. Saturation Present? Yes No Depth (inches): Wetland Hydrology Prof. Saturation Present? Yes No Depth (inches): Wetland Hydrology Prof. Saturation Present? Yes No Depth (inches): Wetland Hydrology Prof. Saturation Present? Yes No Depth (inches): Wetland Hydrology Prof. Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: <td>ry Indicators (2 or more required)</td>	ry Indicators (2 or more required)
	er Marks (B1) (Riverine)
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Draina Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-S Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfit Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shalk Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-I Field Observations: Surface Water Present? Yes No Depth (inches): Wetland Hydrology Present? Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Cincludes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	ment Deposits (B2) (Riverine)
	Deposits (B3) (Riverine)
	nage Patterns (B10)
	Season Water Table (C2)
	fish Burrows (C8)
	ration Visible on Aerial Imagery (C9)
Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Products Wetland Hydrology Products Cincludes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	low Aquitard (D3)
Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Concludes capillary fringe) Wetland Hydrology Production Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	-Neutral Test (D5)
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Uncludes capillary fringe) Wetland Hydrology Present? Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	
Saturation Present? Yes No C Depth (inches): Wetland Hydrology Pro (includes capillary fringe) Wetland Hydrology Pro Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	resent? Yes No <u>X</u>
Remarks: APPROX ST WHEES ABOVE POND OFFINM	
Remarks: APPROF STO MULLES ABOVE POND OFFERM	
ITTI I I I I I I I I I I I I I I I I I	
197 - Contract - Contr	

Project/Site: SFL AREA I	City/County: UENTURA	Sampling Date: 1/4/2012
Applicant/Owner:ASA	State:A	Sampling Point: <u>SW-1</u> SP-1
Investigator(s): R. ItuDDLESTON, S. LONG	Section, Township, Range: 02 N , 7 W	SECZO (SBM)
Landform (hillslope, terrace, etc.): HILL SLOPE	Local relief (concave, convex, none):	
Subregion (LRR): Lat: _3	4°14' 23. 607" Long: 118° 41' 07	. 334 Datum: W65 84
Soil Map Unit Name: SnG SEDIMENTARY ROCK	▶ D NWI classific	ation:E
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes No 🗡 (If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal Circumstances" p	present? Yes <u></u> No
Are Vegetation, Soil, or Hydrology 🗡 naturally pr	oblematic? (If needed, explain any answe	rs in Remarks.)

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No _X Yes No _X Yes No _X	Is the Sampled Area within a Wetland? Yes No
Remarks: BELOW AVE RATA	MALL TO DATE	SMALL CONSTRUCTED BASIN

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
1. <u>wore</u>				Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2		<u> </u>		Total Number of Dominant
3				Species Across All Strata: (B)
4	7 T	= Total Cov	er	Percent of Dominant Species That Are OBL, FACW, or FAC: 33% (A/B)
Sapling/Shrub Stratum (Plot size: 2M)				
1. <u>NONE</u>			1.1.1.1.1.1.	Prevalence Index worksheet:
2			0.0052000	Total % Cover of: Multiply by:
3		·		OBL species x 1 =
4		·		FACW species x 2 =
5	·			FAC species x 3 =
Herb Stratum (Plot size: EMTIPE 845W)		= Total Cov	er	FACU species x 4 =
	3,	У	ELC	UPL species x 5 =
				Column Totals: (A) (B)
		<u> </u>		Brouslance Index - R/A -
3. ERODIUM BOTRYS				Prevalence Index = B/A =
4. BRASSICA MIGRA			<u>pr</u>	Hydrophytic Vegetation Indicators:
5				Dominance Test is >50%
6				Prevalence Index is ≤3.0 ¹
8	•	<u> </u>		 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
	8%	= Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)				
1. / NONE		<u> </u>		³ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2	•			be present, uness disturbed of problematic.
392		= Total Cov		Hydrophytic Vegetation
% Bare Ground in Herb Stratum % Cover	of Biotic Ci	rust		Present? Yes No X
Remarks: SEEDLINGS ONLY MAS	AME	<u> </u>	1540	
SEEDLINGS CRO JISIS	9114 E		2412	
- MOSS COLERS MUCH OF	THE	COLLS		
	1 E	30,00	<u>s</u> = -	TISTS INTRA

SOI	L
-----	---

SOIL Sampling Point: Sw-1 S						<u>SP-1</u>						
1	Profile Descr	iption: (Describe t	o the depti	h needed to docu	ment the i	ndicator o	or confirm	the absence	of indicators.	3.0		
	Depth .	Matrix		Redo	× Features					_		

and the second second		•							
Depth	Matrix	0/		x Feature	<u>s</u>		-		
(inches)	Color (moist)		Color (moist)		Type ¹	Loc ²		Remarks	
0-1	107R573	100	<u> </u>				SL	FR, WMSBK, F.VF ROOTS	
8	14 76	8 38					25890	5%; TRACE FINE BRAVEL	
		×	2.e X		19				
1-10	ICYR 6/4	60%			92 FR	28.0	5AND	TRACE F: 200TS	
	10784/3	40%					FSL -	VFR, WMSBK -PARTS	
		1						TO GRAN.	
			FNCLUSIONS-	FR	w MSBK	<u> </u>	24 1	· - · · · · · · ·	
		'	<u> </u>		VFi Zoo				
¹ Type: C=C	oncentration D=De	 pletion RM=	Reduced Matrix, CS				rains ² Lo	cation: PL=Pore Lining, M=Matrix.	
			LRRs, unless other					s for Problematic Hydric Soils ³ :	
Histoso			Sandy Redo					Muck (A9) (LRR C)	
Histic E	pipedon (A2)		Stripped Ma					Muck (A10) (LRR B)	
Black H	listic (A3)		Loamy Muc	ky Minera	al (F1)			ced Vertic (F18)	
Hydrog	en Sulfide (A4)		Loamy Gley	ed Matrix	(F2)		Red Parent Material (TF2)		
	d Layers (A5) (LRR	C)	Depleted M	atrix (F3)			Other	(Explain in Remarks)	
1 cm M	uck (A9) (LRR D)		Redox Dark	Surface	(F6)				
·	d Below Dark Surfa	ce (A11)	Depleted Date		· · ·				
	ark Surface (A12)		Redox Depr		(F8)		³ Indicators of hydrophytic vegetation and		
	Mucky Mineral (S1)		Vernal Pool	s (F9)			wetland	hydrology must be present,	
	Gleyed Matrix (S4)			1	-		unless o	disturbed or problematic.	
	Layer (if present):								
	SANDSTONE								
Depth (ir	nches): <u>6 -10</u>	INCITE.	<u>s</u>				Hydric Soi	I Present? Yes No 🗡	
Remarks:	APPEARS 7	7 8E	AN EXCANA	TED	BASIM	1 - 5	OILS BE	RMED on NORTH	
2		Excu .	-	5/65			NIXED	8 0	
				-	•		•		
L		ABRU	PT TRANSI	570~	70 5	ANDS	TONE ,	2011 6-10 865	
HYDROLO)GY							2	
Wetland Hy	drology Indicators	:							
Primary Indi	icators (minimum of	one require	d; check all that appl	y)			Seco	ndary Indicators (2 or more required)	
Surface	Water (A1)		Salt Crust	(B11)			١	Nater Marks (B1) (Riverine)	
High W	ater Table (A2)		Biotic Crus	st (B12)				Sediment Deposits (B2) (Riverine)	
	ion (A3)		Aquatic Inv		es (B13)	-		Drift Deposits (B3) (Riverine)	

Yes _____ No X___ Depth (inches): ____ Wetland Hydrology Present? Yes ____ Saturation Present? (includes capillary fringe)

Yes ____ No 🔀 Depth (inches): _____

Yes _____ No X Depth (inches): _

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

Remarks: SHALLOW BASIN - NOTABLE ABSENCE OF UPLAND VEGETATION RELATIVE TO SUPROUNDING AREAS - BUT NO EVIDENCE OF PONDING BELOW AVERAGE RATNFALL SO PONPING COULD NOT BE DEFINITIVELY RULED at IN THIS AREA

____ Hydrogen Sulfide Odor (C1)

____ Thin Muck Surface (C7)

Presence of Reduced Iron (C4)

Other (Explain in Remarks)

____ Recent Iron Reduction in Tilled Soils (C6)

Water Marks (B1) (Nonriverine)

Drift Deposits (B3) (Nonriverine)

Surface Soil Cracks (B6)

Water-Stained Leaves (B9)

Field Observations:

Surface Water Present?

Water Table Present?

_ Sediment Deposits (B2) (Nonriverine)

____ Inundation Visible on Aerial Imagery (B7)

No X

____ODrainage Patterns (B10)

___ Crayfish Burrows (C8)

____ Shallow Aquitard (D3)

_ FAC-Neutral Test (D5)

____ Saturation Visible on Aerial Imagery (C9)

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

Project/Site:SFL AREA	City/County: VENTURA Sampling Date: 1/4/2012
Applicant/Owner:	State: CA 🗼 Sampling Point: 50-1 - 52-2
Investigator(s): <u>R. HUPPLESTON</u> , S. Lenb	Section, Township, Range: <u>CZN 17N SECZO (SBM)</u>
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none): CACAVE Slope (%): 0-5%
Subregion (LRR): Lat:	<u>4° 14' 23.680''</u> Long: <u>118° 41' 07.394''</u> Datum: <u>w6584</u>
Soil Map Unit Name: Sn 6 SEPIMENTATEN POC	ル ムアフ NWI classification: レのハモ
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 X No
Are Vegetation, Soil, or Hydrology naturally pr	

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No <u>×</u> Yes No <u>×</u> Yes No <u>×</u>	Is the Sampled Area within a Wetland?	Yes No
Remarks: BELCW AVE X	CAINFALL FOR DECEM.	8 <i>E</i> [⁷	

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?		Dominance Test worksheet: Number of Dominant Species
1. <u>Par</u> E				That Are OBL, FACW, or FAC: (A)
2			2-4	Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: 2m)		_ = Total Co	ver	That Are OBL, FACW, or FAC:
1. ARTEMESIA CAMFORNICA	10%	<u></u>	M	Prevalence Index worksheet:
2. ADENO STEMA FASCELULATA	5%	<u></u>	M	Total % Cover of: Multiply by:
3				OBL species x 1 =
4				FACW species x 2 =
5				FAC species x 3 =
	_	_ = Total Co	ver	FACU species x 4 =
Herb Stratum (Plot size: 2M)	- 60			UPL species x 5 =
1. AVENA BARBATA		<u> </u>		Column Totals: (A) (B)
2. EROPIUM BOTRYS	276		NL	
	<u> 27.</u>			Prevalence Index = B/A =
4. PEASP. (CL SECURDA)	270		<u>مام</u>	Hydrophytic Vegetation Indicators:
5. <u>CRYPTANAASP</u>	1%		NL	Dominance Test is >50%
6			1	Prevalence Index is ≤3.0 ¹
7				Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
0	~726	 _ = Total Co		Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)	6		VEI	N S
1			<u> </u>	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2				
		_ = Total Co	ver	Hydrophytic Vegetation
% Bare Ground in Herb Stratum 7802 % Cove	r of Biotic C	rust		Present? Yes No 🗡
Remarks:				····

SOIL

SUL								Sampii	ng Point:	
Profile Desc	ription: (Describe	to the dep	th needed to docum	nent the i	ndicator o	or confirm	n the absence	of indicators.)		
Depth	Matrix		Redox Features							
(inches)	Color (moist)		Color (moist)	%	_Type ¹	Loc ²	<u>Texture</u>	R	emarks	
0-11	107P 4/3	100	1977				LFS	VF-LOOSE	VW M	s <i>BI</i> C
8							18 E - 18	PARTS TO	GRAN.	
5.12	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				- C 2			F-Fi ROOT	5 25%	
11-19	107F4/3	100				<u> </u>	UFS	FR -po	Rects	
10.51								MM_A		
	. <u></u>		<u></u> .		<u> </u>	<u> </u>				
¹ Type: C=C	oncentration, D=Dep	letion, RM=		S=Covere	d or Coate	d Sand G	rains. ² Lo	cation: PL=Pore	Linina. M=N	Aatrix.
	Indicators: (Applic							s for Problematic		
Histosol	(A1)		Sandy Redo	ox (S5)			1 cm l	Muck (A9) (LRR (C)	
Histic E	pipedon (A2)		Stripped Ma	trix (S6)				Muck (A10) (LRR		
	istic (A3)		Loamy Muc	ky Minera	l (F1)		Redu	ced Vertic (F18)		
Hydroge	en Sulfide (A4)		Loamy Gley	ed Matrix	(F2)	÷.,		Parent Material (T	F2)	
Stratifie	d Layers (A5) (LRR (>)	Depleted M					(Explain in Rema		
	uck (A9) (LRR D)	,	Redox Dark	Surface	(F6)		—	. ,	,	
	d Below Dark Surface	e (A11)	Depleted Da							
	ark Surface (A12)	- ()	Redox Depr				³ Indicators	s of hydrophytic ve	enetation an	d
	Aucky Mineral (S1)		Vernal Pool		,			hydrology must t		
	Gleyed Matrix (S4)			0(10)				disturbed or probl		
	Layer (if present):	· .								
Type:	NONE ENC	arrite	ABD							
	ches):						Hydric Soi	il Present? Yes	s i	No <u>X</u>
Remarks:							•			

HYDROLOGY

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

Project/Site: NASA SSEL AREA I	City/County: VENTURA CO. Sampling Date: 1/4/2012
Applicant/Owner: NASA	State: <u></u> Sampling Point: <u> SW-Z</u> 3
Investigator(s): P. ItUDDLESTON, S.LONG	Section, Township, Range: <u>02 P 17 W SECZO (SBM)</u>
	_ Local relief (concave, convex, none): <u>conchue</u> Slope (%): 57
Subregion (LRR): Lat: 3	4°14' 20.658 Long: -118° 41' 20.649 Datum: W65 84
Soil Map Unit Name: SnG SEDIMENTARY Rock	- UnD NWI classification: <u>PABHx</u>
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	y disturbed? Are "Normal Circumstances" present? Yes 🗶 No
Are Vegetation, Soil, or Hydrology naturally pr	roblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
1	

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <u>/</u> No Yes <u>/</u> No Yes <u>/</u> No	Is the Sampled Area within a Wetland?	Yes No		
	RAINFALL FOR THE		YFAR_		
CONSTRUCTED IMPOUNDMENT					

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size:) 1.) 2.		<u>Species?</u>		Dominance Test workshee Number of Dominant Specie That Are OBL, FACW, or FA	s i
3.				Total Number of Dominant Species Across All Strata:	(B)
4 Sapling/Shrub Stratum (Plot size:)		= Total C	over	Percent of Dominant Specie That Are OBL, FACW, or FA	s AC: <u>100%</u> (А/В)
1			- 52-	Prevalence Index workshe 	
3			5a	OBL species	
4				FACW species	
5				FAC species	
, Z		= Total C	over	FACU species	_ x 4 = (1)
Herb Stratum (Plot size: _/m ²)			_	UPL species	x5=
1. PartpoGON MONSPELIENSIS	10/0		FAcut	Column Totals:	_ (A) (B)
	1%				8
3. ANACALIS ARVENSIS					/A =
4. ECEOCHARIS MACROSTACITYA				Hydrophytic Vegetation In	
5				Dominance Test is >50	
6				Prevalence Index is ≤3.	
7 8				Morphological Adaptation	ons ¹ (Provide supporting on a separate sheet)
		= Total C	over	Problematic Hydrophytic	c Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:) 1 2				¹ Indicators of hydric soil and be present, unless disturbed	wetland hydrology must
ζ.		= Total C		Hydrophytic Vegetation	
% Bare Ground in Herb Stratum % Cover	of Biotic C	rust		Present? Yes /	×No
Remarks: SEEDLINGS ONLY AT VECETATION CRAZED (HORSE:		TIME	OF YI	FATZ	W.
ULULIAN OF CITUSE	9			3462	825 33

I

SOIL

Profile Des	cription: (Describe	to the dept	th needed to doc	ument the i	ndicator	or confirr	n the absence	e of indicators.)		
Depth	Matrix			lox Features			_			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type	_Loc ²	Texture	Remarks		
0-2	107 R 4/2	100					FSL	FR, WMSBK, M-F ROOTS		
1		100					15.26	20%		
2-9	107R 3/1	90%	578 5/6	12%	<u> </u>	M	LFS	MMSBK FR TR UF POOTS		
	107R 5/3	10%	.		-	4	SAND	OF PED SUPFACES		
6.11	1078 3/1	009	-20511					·		
9-16			57R516	LLIO	<u> </u>		LF5	MMSBK, FR		
	104 F 5/3	2%					SAND	OF PED SURFACES		
16-19	10VR 4/3	100%					Strop	LOOSE, MAS, MC ROOTS		
¹ Type: C=C	Concentration, D≃De	pletion, RM=	Reduced Matrix, (CS=Covered	or Coate	d Sand G	Frains. ² Lo	cation: PL=Pore Lining, M=Matrix.		
Hydric Soil	Indicators: (Appli	cable to all	LRRs, unless oth	erwise note	ed.)			s for Problematic Hydric Soils ³ :		
Histoso	ol (A1)		Sandy Re	dox (S5)			<u> </u>	1 cm Muck (A9) (LRR C)		
Histic E	Epipedon (A2)		Stripped I	Matrix (S6)			2 cm Muck (A10) (LRR B)			
Black H	listic (A3)		Loamy M	ucky Mineral	(F1)		Reduced Vertic (F18)			
Hydrog	en Sulfide (A4)		🗧 Loamy Gl	leyed Matrix	(F2)		Red Parent Material (TF2)			
Stratifie	ed Layers (A5) (LRR	C)	Depleted	Matrix (F3)			🗡 Other (Explain in Remarks)			
	luck (A9) (LRR D)		Redox Da	ark Surface (F6)		- T			
	ed Below Dark Surface	æ (A11)	_	Dark Surfac						
)ark Surface (A12)	. ,		epressions (F	• •		³ Indicator:	s of hydrophytic vegetation and		
	Mucky Mineral (S1)		Vernal Po					hydrology must be present,		
	Gleyed Matrix (S4)							disturbed or problematic.		
	Layer (if present):						1			
	NORE EN	car ~ TE	FED							
	nches):						Hydric So	il Present? Yes 🗡 No		
Remarks:	2-9" SA	ND AL	ore PEP	SURFA	ees	-	SOME	REPOX BUT LESS		
THAT 2% - SOILS CLEAPLY IN UNDATED BASED ON POSITION IN										
	BASIN AN				DINA		14164	WATER		

HYDROLOGY

Wetland Hydrology Indicators:							
Primary Indicators (minimum of one required; check	Primary Indicators (minimum of one required; check all that apply)						
🗶 Surface Water (A1)	Water Marks (B1) (Riverine)						
🖌 High Water Table (A2)	Biotic Crust (B12)	Sediment Deposits (B2) (Riverine)					
	_ Aquatic Invertebrates (B13)	Drift Deposits (B3) (Riverine)					
🗲 Water Marks (B1) (Nonriverine)	_ Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)					
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living Research	oots (C3) Dry-Season Water Table (C2)					
🗠 Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)					
Surface Soil Cracks (B6)	Recent Iron Reduction in Tilled Soils (C	C6) Saturation Visible on Aerial Imagery (C9)					
Inundation Visible on Aerial Imagery (B7)							
Water-Stained Leaves (B9)	_ Other (Explain in Remarks)	FAC-Neutral Test (D5)					
Field Observations:							
Surface Water Present? Yes 🧹 No 🔄	Depth (inches): > / 2 *						
Water Table Present? Yes <u></u> No	Depth (inches):/ 8 ″						
Saturation Present? Yes No (includes capillary fringe)	Depth (inches): We	etland Hydrology Present? Yes 🗡 No					
Describe Recorded Data (stream gauge, monitoring	g well, aerial photos, previous inspections	;), if available:					
Remarks: SURFACE WATER NOT OBSERVED AT SAMPLE POINT - BUT							
POINT IS WITHIN	porportum	sa atta anang a					
-IMPOUNDMENT POND							

Project/Site: AREA F.	City/County: VENTURA	<u> </u>	Sampling Date: _	1/4/202
Applicant/Owner:ASA	S	itate: <u>A.</u> S	Sampling Point:	sw.z sp.4
Investigator(s): 2. HUDPLESTON, S. LONG	Section, Township, Range:	IZN 17N	SEC ZO	(SBM)
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, i	none):	Slop	e (%): <u>5%</u>
Subregion (LRR): Lat: 3'	"14' 20.777 Long:	118° 41' 20	. 857_ Datur	n: <u>WES 84</u>
Soil Map Unit Name: Snf SEPIMENTART ROC	K UND	NWI classificat	lion: PSSI	3
Are climatic / hydrologic conditions on the site typical for this time of ye	ar? Yes No (I	lf no, explain in Rei	marks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal (Circumstances" pre	esent?Yes 👱	No
Are Vegetation, Soil, or Hydrology naturally pr	blematic? (If needed, e)	kplain any answers	in Remarks.)	
SUMMARY OF FINDINGS - Attach site map showing	sampling point location	ns, transects,	important fea	atures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No <u>/ /</u> Yes No Yes No	Is the Sampled Area within a Wetland?	Yes	No <u>×</u>
Remarks: BELOW ANE 247,	NEALL GOR THIS TIME	E OF YEAR		

	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:)	<u>% Cover</u>	<u>Species?</u>	<u>Status</u>	Number of Dominant Species
^{1.} /		. <u> </u>		That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant Z
3				Species Across All Strata: (B)
4				Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: Zm ²)		= Total Co	ver	That Are OBL, FACW, or FAC:
	209		~~	
1. MALOSOMA LAURINA		<u> </u>		Prevalence Index worksheet:
2				Total % Cover of:Multiply by:
3				OBL species x 1 =
4				FACW species x 2 =
5				FAC species x 3 =
17		= Total Co	ver	FACU species x 4 =
Herb Stratum (Plot size: /m ²)				UPL species x 5 =
1. POA (cf) SECURPA	40%		ML	Column Totals: (A) (B)
2. Rumey Sp.			FACI	
3. Anagalis animais	TK		FAC	Prevalence Index = B/A =
4				Hydrophytic Vegetation Indicators:
5			_	Dominance Test is >50%
6				Prevalence Index is ≤3.0 ¹
7				Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
		= Total Co		Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)			101	
1.				¹ Indicators of hydric soil and wetland hydrology must
2				be present, unless disturbed or problematic.
		= Total Co		Hydrophytic
(10				Venetation
% Bare Ground in Herb Stratum <u> </u>	r of Biotic C	rust		Present? Yes <u>No X</u>
Remarks:				
		20		

epth	ription: (Describe Matrix	•		lox Features					,		
iches)	Color (moist)	%	Color (moist)	%		Loc ²	Texture		Remark	s	
0-1	10481/Z	100%			_	_	FSL	GA	UM ABU	1. E-1	1 Root
	<u> </u>					•	3			5	8
-6	107124/2	70%	1048576	30%	c	м	FSL	FR	um SBK	VFi-	Fi
	2.77					2	-			70015	12
5-17	107F413	70%	107R 5/1	5%	c	M	LFS	FR	WM SBI	2	
			10784/6	25%	c	~					
Black Hi Hydroge Stratified 1 cm Mu Deplete Thick Di Sandy M Sandy O	pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) (LRR Juck (A9) (LRR D) d Below Dark Surfa ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4)		Loamy Gl Depleted Redox Da Depleted	ucky Mineral eyed Matrix (Matrix (F3) ark Surface (F Dark Surface epressions (F	(F2) F6) e (F7)	12		ced Vert Parent M (Explain s of hydr I hydrolo	10) (LRR B) ic (F18) aterial (TF2) n in Remarks) ophytic vegetal gy must be pre d or problemati	sent,	à
	Layer (if present):			_			Hydric So	il Prese	nt? Yes _	C No	

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required; chec	Secondary Indicators (2 or more required)	
Surface Water (A1)	Water Marks (B1) (Riverine)	
High Water Table (A2)	Sediment Deposits (B2) (Riverine)	
Saturation (A3)	Aquatic Invertebrates (B13)	Drift Deposits (B3) (Riverine)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Livir	g Roots (C3) Dry-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Recent Iron Reduction in Tilled So	ils (C6) Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Other (Explain in Remarks)	FAC-Neutrai Test (D5)
Field Observations:		199-
Surface Water Present? Yes No	∑ Depth (inches):	
Water Table Present? Yes No>	≿ Depth (inches):	
Saturation Present? Yes No	✗_ Depth (inches):	Wetland Hydrology Present? Yes No X
Describe Recorded Data (stream gauge, monitorin	ng well, aerial photos, previous inspec	ions), if available:
Remarks: ABOVE POND ONAUM	· · · · ·	

Project/Site: SSFL R-ZA	ParD (City/County: レルトー	TURA	Sampling Date: 1/5/ Zo12
Applicant/Owner: MASA				Sampling Point: RZA -SP-
nvestigator(s): 2. HUNPLESTE	N, S. LONG	Section, Township, Ran	ge: 02 ~ 17h	1 SEC 30 (SBM)
andform (hillslope, terrace, etc.):				
Subregion (LRR):	Lat: 34	1 13' 35.861"	Long: - 118 42	19.440 Datum: 1068 84
Soil Map Unit Name:				
Are climatic / hydrologic conditions on th				
Are Vegetation, Soil, or 1				
Are Vegetation, Soil, or				
SUMMARY OF FINDINGS - A				
SUMMART OF FINDINGS - A				s, important reatures, etc.
Hydrophytic Vegetation Present?	Yes No	Is the Sampled	Area	
Hydric Soil Present?	Yes No	within a Wetlar	nd? Yes	No
Wetland Hydrology Present?				
Remarks: BELCW AVE F	CANNEACL TO D	ATTE - IHIGA	by manto	ED ITT DPOLOGY
IN CONSTRUCTED	gang .			
VEGETATION - Use scientific		Dominant Indicator	Dominance Test wor	tebaat:
Tree Stratum (Plot size:		Species? Status	Number of Dominant	
1		- <u></u>	That Are OBL, FACW	
2		· · · · · · · · · · · · · · · · · · ·	Total Number of Dom	inant
3			Species Across All St	rata: <u>Z</u> (B)
4			Percent of Dominant	Species 🖌
Sapling/Shrub Stratum (Plot size:	$2m^2$) —	_ = Total Cover	That Are OBL, FACW	, or FAC: 100% (A/B)
1. BACHARIS SAL	ICIFOLIA STE	Y FACW	Prevalence Index w	orksheet:
2			Total % Cover of	: Multiply by:
3			OBL species	x 1 =
4			FACW species	x 2 =
5		·	1	x 3 =
	2 576	= Total Cover		x 4 =
Herb Stratum (Plot size:	TACTAS CT.	Y EARLY	· · ·	x 5 =
1. <u>OTPETOS ETCA</u>	6203/13 20		Column Totals:	(A)(B)
3.			Prevalence Inde	ex = B/A =
4	··· ··· ··· ··· ··· ··· ··· ··· ·		Hydrophytic Vegeta	tion Indicators:
5			Dominance Test	is >50%
6			Prevalence Inde	x is ≤3.0 ¹
7			Morphological A	daptations' (Provide supporting
8				rks or on a separate sheet) rophytic Vegetation ¹ (Explain)
		= Total Cover		rophytic vegetation (Explain)
Woody Vine Stratum (Plot size:			¹ Indicators of hydric (soit and wetland hydrology must
1				sturbed or problematic.
2		= Total Cover	Hydrophytic	
	<u> </u>	_	Verietation	No. Ar No.
% Bare Ground in Herb Stratum			Present?	Yes <u>/ No</u>
Remarks: EXTENSIUE THAS AREA - N	DEAD STEM	s or ser	EPUS TH	ROUGIFEUT
		c	E Rocts	alt in the
THIS AREA - N	O LIVE TULE		- ///	JUTICOMTES

US Army Corps of Engineers

EUIPENT

Arid West - Version 2.0

C	\sim	1	8
0	v	Ł	5

SOIL								Sampling Point: F274 57-	
Profile Desc	cription: (Describe	to the depi	th needed to docum	nent the in	dicator	or confirm	the abs	ence of indicators.)	
Depth	Matrix		Redo	x Features					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc	Textu	re Remarks	
0-2"	ICYR 3/2	100%					Ci	FINELY LAYERED	
								CREATHE MATTERIAL	
								W FINE SAND / SILT	
2-6"	167 × 3/2	60%					VES	- MIXED SATD, LOOSE	
	1077 5/4	40%					LFS	MASINE	
6-19"	1CY \$3/2	90%	10782/1	Z%	۷.	1	FSL	MMSBK, FZ	
	••.		1078.4/4.	8%	C	P/pc			
¹ Type: C=C	oncentration, D=Dep	letion RM:		·	or Coate		aine	² Location: PL=Pore Lining, M=Matrix.	
	Indicators: (Applic							ators for Problematic Hydric Soils ³ ;	
Histosol	I (A1)		Sandy Redo	ox (S5)			1	cm Muck (A9) (LRR C)	
	pipedon (A2)		Stripped Ma	• •				2 cm Muck (A10) (LRR B)	
	listic (A3)		Loamy Muc	• •	(F1)			Reduced Vertic (F18)	
Hydroge	en Sulfide (A4)		Loamy Gley	ed Matrix	(F2)			Red Parent Material (TF2)	
Stratifie	d Layers (A5) (LRR (C)	Depleted M	atrix (F3)				Other (Explain in Remarks)	
1 cm Mi	uck (A9) (LRR D)		K. Redox Dark	Surface (I	F6)				
Deplete	d Below Dark Surfac	e (A11)	Depleted Da	ark Surface	∋(F7)				
Thick D	ark Surface (A12)		Redox Depr		8)		³ Indic	ators of hydrophytic vegetation and	
Sandy M	Mucky Mineral (S1)		Vernal Pool	s (F9)			we	tland hydrology must be present,	
Sandy (Gleyed Matrix (S4)						un	less disturbed or problematic.	
Restrictive	Layer (if present):						Τ		
Type;	PORE								
Depth (in	nches): 719*						Hydrie	c Soil Present? Yes No	
Remarks:	- TEPCK DAR	u sur	FACE 6"	THIL	×		LOPE .	2 12 INCIPES	
			* 87						
			גיוון בייביי גם גובועי ו ה					-ms Azer 6 12007	
		Cr.			~~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	<u>- 8 م امر</u>	>		
HYDROLO)GY								
Wetland Hy	drology Indicators:					· · · ·			
Primary Indi	icators (minimum of o	ne require	d; check all that appl	x)(x				Secondary Indicators (2 or more required)	
	Water (A1)		Salt Crust	(B11)			Water Marks (B1) (Riverine)		
High Wa	ater Table (A2)		Biolic Crus	st (B12)				Sediment Deposits (B2) (Riverine)	
	ion (A3)		Aquatic Inv	vertebrates	s (B13)			Drift Deposits (B3) (Riverine)	
🗶 Water N	darks (B1) (Nonriver	ine)	Hydrogen	Sulfide Od	or (C1)			Drainage Patterns (B10)	
Sedime	nt Deposits (B2) (No	nriverine)	Oxidized F	Rhizospher	es along	Living Roo	is (C3)	Dry-Season Water Table (C2)	
Drift De	posits (B3) (Nonrive	rine)	Presence	of Reduce	d Iron (C	4)		Crayfish Burrows (C8)	
Surface	Soil Cracks (B6)		Recent Iro	n Reductio	on in Tille	d Soils (C6	5)	Saturation Visible on Aerial Imagery (C9)	
Inundati	ion Visible on Aerial I	magery (B	7) Thin Muck	Surface (0	C7)			Shallow Aquitard (D3)	
Water-S	Stained Leaves (B9)		Other (Exp	olain in Rei	marks)			FAC-Neutral Test (D5)	
Eigld Obser	nuations:								

Yes _____ No 🗡 Depth (inches): _____ Surface Water Present? Yes _____ No ____ Depth (inches): ______ Water Table Present? Yes _____ No 🗡 Depth (inches): _____ Wetland Hydrology Present? Yes 🗡 No Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: AREA WAS PRY AT TIME OF SURVEY - NO INDICATION OF PECENT PONDING, BUT SAMPLE LOCATION IS WITHIN THE PAST EXTENT OF CITUM - HYPECLOOD NEW MANAGED BT PUMPING FROM THE POND

US Army Corps of Engineers

Project/Site: <u>SSFL iZZA -PowD</u>	City/County: UENTURA Sampling Date: 1/5/2012
Applicant/Owner: MASA	State: <u>CA</u> Sampling Point: <u>IZZA - 5/2-Z</u>
	Section, Township, Range: OZN 17W SEC 30 (SBM)
Landform (hillslope, terrace, etc.): <u>TERNUE</u>	Local relief (concave, convex, none): Slope (%):
Subregion (LRR): Lat: 30	4°13' 35.559 Long:-118" 42' 19.624" Datum: 106584
Soil Map Unit Name: SHE - SEPIMENTARY TOC	che (A-NT) NWI classification: New E
Are climatic / hydrologic conditions on the site typical for this time of y	/ear? Yes No 🔑 (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly	ly disturbed? Are "Normal Circumstances" present? Yes 🗡 No
Are Vegetation, Soil, or Hydrology naturally p	problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showin	ng sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	- Is the Sampled Area
Hydric Soil Present? Yes No	- within a Wetland? Yes No \times
Wetland Hydrology Present? Yes No X	_
Remarks: BELOW AVE RAIN FALL	

	Absolute	Dominan	t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 10m²)		Species?		
	20%			Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata:5(B)
4				
Sapling/Shrub Stratum (Plot size: 5m ²)	70%	= Total C	over	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
1. CUERCES AGRIFOLIA	Zola	4	NL	Prevalence Index worksheet:
2. BACHARIS SALISIFOLIA			FAW	Total % Cover of: Multiply by:
3. BACCHAPPIS PILVLAPAS				OBL species x1 =
4. TOXICODENDRUN DIVERSILOBU			ML	FACW species x 2 =
5.	1-10			FAC species x 3 =
⁵	609	= Total C		FACU species x 4 =
Herb Stratum (Plot size: /m ²)	007		over	UPL species x 4 =
1. BREMUS DIAMPRUS	10%	7	NL	
2. PHACELIA ZAMOSISSIMA				Column Totals: (A) (B)
3.				Prevalence Index = B/A =
4. PIPTATHERUM MILIACEUM	1%		NK	Hydrophytic Vegetation Indicators:
5. CIRSIUM OCCIDENTALE				Dominance Test is >50%
6. CARPILLS PTCNOLEPHALLIS				Prevalence Index is ≤3.0 ⁴
7				Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
8				Problematic Hydrophytic Vegetation ¹ (Explain)
		Total C	over	
Woody Vine Stratum (Plot size:)	20%			
1				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2				
/		= Total C	over	Hydrophytic
% Bare Ground in Herb Stratum % Cover	r of Biotic C	rust		Vegetation Present? Yes <u>No </u>
Remarks:				- ·
VEAF LITTER ABUN	PANT	TAP	20 64 cu7	AR54.

SOIL

Sampling Point:	RZA	-57-Z
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i tome besonphone (beschibe to me bept	h needed to document the indicator or con	firm the absence of indicators.)
Depth Matrix	Redox Features	- - .
(inches) Color (moist) %	Color (moist) % Type ¹ Loc	
0-Z 104/2 3/2 100%		
2-14" 1678-4/1 70%	MITED	UPS WMSBK VFR, ICARSE
1c7R4/4 30%		
		W. The second
14-201 1078413 100%		LFS MASSINE, GIRAN
		1%-F-A ROOTS
		110.7-1. 1.
Hydric Soil Indicators: (Applicable to all I	Reduced Matrix, CS=Covered or Coated San	d Grains. ² Location: PL≍Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6)	
Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	Depleted Dark Surface (F7) Redox Depressions (F8)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Redox Depressions (F8) Vernal Pools (F9)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)		unless disturbed or problematic.
Restrictive Layer (if present):		
Type:		
Depth (inches): Z.4/ ''		Hydric Soil Present? Yes No
Remarks:		
HYDROLOGY	<u>-</u>	
HYDROLOGY Wetland Hydrology Indicators:		
Wetland Hydrology Indicators:	; check all that apply)	Secondary Indicators (2 or more required)
·····		Secondary Indicators (2 or more required) Water Marks (B1) (Riverine)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required	I: check ail that apply) Salt Crust (B11) Biotlc Crust (B12)	Water Marks (B1) (Riverine)
Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one required</u> Surface Water (A1)	Salt Crust (B11)	
Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one required</u> Surface Water (A1) High Water Table (A2)	Salt Crust (B11) Biolic Crust (B12)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one required</u> 	Salt Crust (B11) Biolic Crust (B12) Aquatic Invertebrates (B13)	 Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	 Salt Crust (B11) Biolic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) 	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6)	 Salt Crust (B11) Biolic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils 	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) i (C6)
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Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7 Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	Salt Crust (B11) Solic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Solis Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) i (C6) Shallow Aquitard (D3)
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Primary Indicators (minimum of one required	Salt Crust (B11) Biolic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches): Vo	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) (C6) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
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Wetland Hydrology Indicators: Primary Indicators (minimum of one required	Salt Crust (B11) Biolic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils) Thin Muck Surface (C7) Other (Explain in Remarks) No X Depth (inches): N Depth (inches	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drift Deposits (B3) (Riverine) Drinage Patterns (B10) Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) (C6) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5) Vetland Hydrology Present? Yes No X

Project/Site:
Applicant/Owner: <u>NASA</u> State: <u>CA</u> Sampling Point: <u>728 - 57-1</u>
Investigator(s): R. HUDDLESTON, S. LONG Section, Township, Range: 02 N 17W SEC30 (SBM)
Landform (hillslope, terrace, etc.): TERACE Local relief (concave, convex, none): concerned Slope (%): 0-5
Subregion (LRR): Lat: 34°13' 35. 770" Long: 118°42' 25. 129" Datum: 1465 1984
Soil Map Unit Name: Sub - SEPIMENTARY ROCK LAND NWI classification: NONE
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes _ X No Is the Sampled Area Hydric Soil Present? Yes _ X No within a Wetland? Yes _ X No Wetland Hydrology Present? Yes _ X No No No
Remarks: BELOW AVE PAINFALL TO PATE - CONSTRUCTED IMPOUNDMENT POND

VEGETATION – Use scientific names of plants.

<u> </u>	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
				Total Number of Dominant 3 (B)
			<u>. </u>	Species Across Atl Strata: (B)
4			·	Percent of Dominant Species 77 59
		= Total Co	over	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66 %</u> (A/B)
Sapling/Shrub Stratum (Plot size: 2m ²)	*	~		
1. SALIX LASICLE PIS				Prevalence index worksheet:
2. BACCHARIS SALICIFOLIA	20%	Z	FACN	Total % Cover of: Multiply by:
3				OBL species x 1 =
4				FACW species x 2 =
5				FAC species x 3 =
	1107	= Total Co		FACU species x 4 =
Herb Stratum (Plot size:)	4-10	10121 CI	3401	
1. BRASSICA NIGRA	27		NL	UPL species x 5 =
1			· <u>·</u>	Column Totals: (A) (B)
2		·	·	Prevalence Index = B/A =
3				
4				Hydrophytic Vegetation Indicators:
5			. <u></u>	∠ Dominance Test is >50%
6				Prevalence Index is ≤3.0 ³
7				Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
0	2%	= Total Co	·	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)	00		over	
				¹ Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
(Leaf-litter) = 6		_ = Totał Co	DVer	Hydrophytic Vegetation
	er of Biotic C	rust		Present? Yes <u>×</u> No
Remarks: SPARSE BRASSICA Com	mine	12+	77+4	E FREES - B-F LOW
1				
MATER LEVEL IN PONS	Ar	77~	E a	FURNEY
REMNANT/DEAD MIPHA	1 Sei	RPUS	. Bu	T NO LIVE ROOTS / RIFIROMES

US Army Corps of Engineers

Arid West – Version 2.0

SOIL

Profile Description: (Describe to the dept	th needed to docum	nent the indicator	or confirm	n the absence	of indicators.)	
Depth <u>Matrix</u>	Redo	x Features				
(inches) Color (moist) %	Color (moist)	Түре	Loc ²	Texture	Remarks	
0-5" 2.57 4/2 100%	•			FSL	MOIST, SOFT WMSRE	
· · · · · · · · · · ·					8% POOTS FLM	
		· · · · · · · · · · · · · · · · · · ·				
					<u></u>	
		· · · · · · · · · · · · · · · · · · ·				
		·				
'Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, CS	S=Covered or Coat	ed Sand G	rains. ² Lo	cation: PL=Pore Lining, M=Matrix.	
Hydric Soil Indicators: (Applicable to all	LRRs, unless other	wise noted.)		Indicators	for Problematic Hydric Soils ³ :	
Histosol (A1)	Sandy Red	• •		1 cm ł	Muck (A9) (LRR C)	
Histic Epipedon (A2)	Stripped Ma	• •			Muck (A10) (LRR B)	
Black Histic (A3)	<u> </u>	ky Mineral (F1)			ed Verlic (F18)	
Hydrogen Sulfide (A4)	_ / /	ed Matrix (F2)			arent Materiał (TF2)	
Stratified Layers (A5) (LRR C)	Depleted M			🗡 Other	(Explain in Remarks)	
1 cm Muck (A9) (LRR D)		Surface (F6)				
Depleted Below Dark Surface (A11)		ark Surface (F7)				
Thick Dark Surface (A12)		ressions (F8)			of hydrophytic vegetation and	
Sandy Mucky Mineral (S1)	Vernal Pool	ls (F9)		wetland hydrology must be present,		
Sandy Gleyed Matrix (S4)				uniess o	listurbed or problematic.	
Restrictive Layer (if present):						
Type: BEDROCK/SAMDSTE	ME BOUNDE				N-	
Depth (inches): <u>4 - 5 "</u>				Hydric Soli	Present? Yes X No	
Remarks: APPRCX 1%	CYR 8/1 IN	CLUSIONS	, may	TED IN	THE SOIL IN HTARIC SOIL	
TTHIS LOCATION	, TRACE	COARSE	SAN]	D. No 1	HYDRIC SOIL	
IN PICATERS B	of point	is wit	TAIN .	OITWM	OF POND	

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required; check	all that apply)	Secondary Indicators (2 or more required)
Surface Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine)
High Water Table (A2)	Biotic Crust (B12)	Sediment Deposits (82) (Riverine)
Saturation (A3)	Aquatic Invertebrates (B13)	Drift Deposits (B3) (Riverine)
✓ Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Sediment Deposits (82) (Nonriverine)	Oxidized Rhizospheres along Livir	ng Roots (C3) Dry-Season Water Table (C2)
Z Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Recent Iron Reduction in Tilled So	oils (C6) Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Other (Explain in Remarks)	FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No 🔀	_ Depth (inches):	
Water Table Present? Yes No	_ Depth (inches):	
Saturation Present? Yes No (includes capillary fringe)	Wetland Hydrology Present? Yes <u></u> No	
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspect	tions), if available:
Remarks: SOME WATER PRE.		
PRIFT LINES, WATER		
POINT IS WITHIN	THE CHUM CI	F THE PORD

Project/Site: <u>SSFL RZB -PCND</u> City	/County: <u>VENTURA</u> Sampling Date: <u>1/5/2.01</u> 2
Applicant/Owner: MASA	State: Sampling Point: R2_B-S7-2_
Investigator(s): <u>F. INPRUESTON</u> , S. LanG Sec	ction, Township, Range: OZN 17N SEL 30 (SBM)
Landform (hillslope, terrace, etc.):Lo	cal relief (concave, convex, none): <u>NONE</u> Slope (%): <u>C-578</u>
Subregion (LRR): Lat: 34 "/	3' 35. 22.3'' Long: -118" 42' 25. 335" Datum: w65.84
Soil Map Unit Name: _ SUG - SEPIMENTATy PLOUCE	NWI classification: NOTE
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 dis	turbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally proble	ematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sa	ampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Remarks: BELOW ANERAGE RATTFALL +	T PATE

· · · · · · · · · · · · · · · · · · ·	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		
	70 00101	<u>opecies:</u>	0.005	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
				Species Across All Strata:(B)
				Species Across Air Strata (b)
4	·			Percent of Dominant Species
	_	_ = Total Co	ver	That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size: Zm ²)				(,
1. BACCHARIS PILULARIS	<u> </u>	<u> </u>	M	Prevalence Index worksheet:
2. MIMULUS AURAMACUS	2%	7	NL	Total % Cover of: Multiply by:
3.				OBL species x 1 =
4.				FACW species x 2 =
5.				FAC species x 3 =
	7%	_ = Total Co	over	FACU species x 4 =
Herb Stratum (Plot size: /m ²)		_		UPL species x 5 =
1. BROMUS PLANDRUS/ HORDEALOUS	70%		M-FALLE	Column Totals: (A) (B)
2. CARDULLS PTCNOCEPHALUS				
3. CENTAURFA MELITENSIS	T		<u></u>	Prevalence Index = B/A =
4. ULLA VILLOSA			ML	Hydrophytic Vegetation Indicators:
5. EROPIUM BETRYS			M	Dominance Test is >50%
6				Prevalence Index is ≤3.0 ³
7				Morphological Adaptations' (Provide supporting
8.				data in Remarks or on a separate sheet)
· · · · · · · · · · · · · · · · · · ·	any	= Total Co		Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:	TUIO		over	
				¹ Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2				
		_ = Total Co	over	Hydrophytic
· ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~				Vegetation 🗙
% Bare Ground in Herb Stratum _1018 % Cove	r of Biolic (Crust		Present? Yes No X
Remarks:				
VEGETATION - MOSTLY	INEN	CB.ACE	ws.	SEEPHINGS

SOIL

	ription: (Describe	to the depth				or confirm	n the absence	e of indicators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	<u>x Features</u> %	_Type ¹	Loc ²	Texture	Remarks	
<u>U-6"</u>	ICYRY/Z	100%		 ~					
00	1011-116						LFS	WMSBK, VFR,	
				·				STO POCTS UF-M	
<u> </u>	<u> </u>								
6-18"	1077412	100%					LFS	CASBIC FR.	
								TRACE VF ROCTS	
								0	
				· · · · · · · · · · · · · · · · · · ·					
17		-1-4				<u> </u>	. 2.		
	oncentration, D=De Indicators: (Applie					g Sand G		cation: PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils ³ :	
Histosol			Sandy Red					Muck (A9) (LRR C)	
	pipedon (A2)		Stripped Ma	• •				Muck (A10) (LRR B)	
	istic (A3)		Loamy Muc		(E1)			ced Verlic (F18)	
I —	n Sulfide (A4)		Loamy Gley					Parent Material (TF2)	
	d Layers (A5) (LRR	C)	Depleted M		(-,			r (Explain in Remarks)	
1 cm Mi	uck (A9) (LRR D)	•	Redox Dark		F6)			(
	d Below Dark Surfa	ce (A11)	Depleted Di						
Thick Da	ark Surface (A12)		Redox Dep				³ Indicator:	s of hydrophytic vegetation and	
Sandy M	Aucky Mineral (S1)		Vernal Pool		•		wetland hydrology must be present,		
Sandy G	Sleyed Mairix (S4)						unless	disturbed or problematic.	
Restrictive	Layer (if present):						1		
Type:	SANDSTON	E	_						
Depth (in	ches):/8 ''		_				Hydric So	il Present? Yes No 🗡	
Remarks:		· · · · ·	· · · · ·				1		
HYDROLO	GY								
Wetland Hy	drology Indicators	:						·····	
Primary India	cators (minimum of	one required;	check all that appl	y)			<u>Seco</u>	ondary Indicators (2 or more required)	
Surface	Water (A1)		Salt Crust	(B11)			_	Water Marks (B1) (Riverine)	
🛛 🔄 High Wa	ater Table (A2)		Biotic Crus	st (B12)				Sediment Deposits (B2) (Riverine)	
Saturati	on (A3)		Aquatic In	verlebrate	s (B13)			Drift Deposits (B3) (Riverine)	
Water M	larks (B1) (Nonrive	rine)	Hydrogen	Sulfide Oc	dor (C1)			Drainage Pattems (B10)	
Sedimer	nt Deposits (B2) (No	onriverine)	Oxidized F	Rhizosphe	res along	Living Roc	ots (C3)	Dry-Season Water Table (C2)	
1	posits (B3) (Nonrive		Presence			-		Craylish Burrows (C8)	
	Soil Cracks (B6)	-	Recent Iro					Saluration Visible on Aerial Imagery (C9)	
Inundati	on Visible on Aerial	Imagery (B7)	Thin Muck					Shallow Aquitard (D3)	
Water-S	tained Leaves (B9)		Other (Exp					FAC-Neutral Test (D5)	
Field Obser	vations:								
Surface Wat	er Present?	Yes No	Depth (in	ches) [.]					
Water Table			Depth (in						
Saturation P			- , - · ·						
	pillary fringe)		Depth (in	cnes):		- wen	ano Hyorolog	gy Present? Yes No 🗶	
	corded Data (stream	n gauge, moni	toring well, aerial	photos, pre	evious ins	pections),	if available:		
Remarks:		<u> </u>							
1 2	SAMPLE 9	reint ,	ABOUE .	oppu	OF	Port	ク		

Appendix F Stream Data Sheets This page intentionally left blank.

Feature Name NORTHERN	DR	HNASE San	nple	Point_NO-(
GPS Location: 34° 14' 12.	27	5" 118° 41	10	6.777"
Geomorphic Feature				
River		Lake		Swale
Stream		Pond		Erosional Channel
Canal		Impoundment		Gully
Irrigation Channel		Playa		Depressional Basin
Drainage Channel		Constructed Basin		Rock Basin
Excavated Ditch		Unvegetatted Depression		Other:
Apparent Hydrologic Regime				
Perennial		Standing Water (Depth:)
		Flowing Water (Depth)
P Ephemeral	X	Dry at time of the survey		
Indictors				
Standing or flowing water with no indication of recent precipitation		Channel adjacent to shelf with steep side		Natural / irrigation / manmade ditch flowing into feature
presence of hydrophytic vegetation		Natural line, stain or mineral (salt) deposit		Dated picture / account showing / referring to identifiable features
Presence of hydric soil with or without hydrophytic vegetation	M	Litter, debris and or clay deposits	A	Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map)
Absence of vegetation or interruption of upland vegetation		Algae or alga mat		Other (Specify)
Notes: -BLUE LINE ON · NHD INT. STRE · NWI - PSSA		65 TOPO - CAL	AB	ASAS GUAD
- DRIFT IDEBRIS 1	open	ESENT 28"	AL	SCUE THE

Channel Width	7.3 FT
Channel Depth	> 3FT PEEPLY INCISED CITANNEL
Low Flow Width	6 FT
Low Flow Depth	2.3 FT
Channel Substrate (check a	ll that apply)
🖾 Sand	Z Cobble Silt / Clay
Gravel	🖾 Rock 🔲 Other
	THE W SAND AND GRAVEL SCALE BOULDERS
Vegetation Characteristic	
Vegetated Channel or Basi	
Dominant / Characteristic S	760163
Vegetation Adjacent to C Dominant / Characteristic S	
HETERMELES	ARBUTIFOLIA, SAMBULUS MIGRA,
AUGREUS AG	MEOUR, CEANOTHUS CRASSIFOLIUS,
	UBSPICATA, ERIODICTYON CRASSIFOLIUM
	MOSISSIMA, CARDUUS ProvocEPHALUS
PIPTATHERU	MILIACEUM, RIBES MALVACEUM,
ARTEMESIA	CAUFORNICA
	DOF AREA 1 - DEEPLY INCISED
CHANNEL	OVER & FEET STERT BANKS
SACVARID REGION DATA SHEET	2

	Date:/4/2012			
bservers: <u>Russell Huddleston a</u>		Contra Contra Contra Contra		
eature Name Nor TH	ERN	PRANAGE San	nple	Point ND - 2
PS Location: 34° 14'	11. 4	726" 118"	41	07. 789"
eomorphic Feature		Y		
River		Lake		Swale
Stream		Pond		Erosional Channel
Canal		Impoundment		Gully
Irrigation Channel		Playa		Depressional Basin
Drainage Channel		Constructed Basin		Rock Basin
Excavated Ditch		Unvegetatted Depression		Other:
pparent Hydrologic Regime		4		
Perennial		Standing Water (Depth:		
Intermittent		Flowing Water (Depth		<u>y</u>
Ephemeral	X	Dry at time of the survey		
ndictors				
Standing or flowing water with no indication of recent precipitation		Channel adjacent to shelf with steep side		Natural / irrigation / manmade ditch flowing into feature
presence of hydrophytic vegetation		Natural line, stain or mineral (salt) deposit		Dated picture / account showing / referring to identifiable features
Presence of hydric soil with or without hydrophytic vegetation	Ø	Litter, debris and or clay deposits	M	Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map)
Absence of vegetation or interrupti of upland vegetation	on 🗖	Algae or alga mat		. Other (Specify)
Notes: . BLUE LINE	en	US65 CALAZ	3.A.	SAS GUAD
· NITO INT. · NWI - PSSA	STR	EAT.1	•	
- DRIFT IDEBALIS O	n re	ocus with	N	CHANNEL

Channel Width	0.00			
	9 FT	3		
Channel Depth	1-2 FT	····		
Low Flow Width	SFT	× 4		
Low Flow Depth	6 Inciti	= 5		
Channel Substrate (check all th	at apply)	V The second second		
Sand	Cobble	🔲 Silt	/ Clay	
Gravel	K Rock	Oth	er	<u> </u>
ROCKY - BOULDI	SP/ COBBLE	E MSOME SAN	ND / GRAVE	12
Vegetation Characteristics of	f Channel or Basin			
Vegetated Channel or Basin?	Yes	No TOTAL	45% 0	WER
Dominant / Characteristic Spec	ies			
bommant / characteristic spec				
		LUS		
CARDUUS Pro POLY POGON	CNOCEPHA			
CARDUUS Pro POLY POGON	MONSPELIA			
CARDUUS Pro	MONSPELIA			- + ⁻
CARDUUS PY	MONSPELIA			+
CARDUUS PY	CNOCEPHA Manspelie SPUS			+

PHACELIA RAMOSISSIMA, CARDUUS PYCNOCEPITALUS, PIPTATHERUM MILIACEUM

(OME WILLOW N4-5" DBH)

OUERCUS AGRIFOULA - UPPER BANK ALCNES. SLOPE Notes:

LARGE, DEEPVY INCISED CHANNEL -SOME AREAS BANKS CUER & FEET TALL - WATER FLOW 1-2 FEET ONLY

-SUTTERED QUERCUS AGRIFORA ARCNG SOUTH SLOPE - WELL ABOUE ACTIVE FLOW CHANNEL

Project: <u>NASA - Santa Susana</u>	a Field Lab	Date: 1/4/2012
Observers: <u>Russell Huddlest</u>		
	ERN DRAINAGE	Sample Point <u>NP - 3</u>
GPS Location: 34° 14	" 11.651 " 11	18° 41' 11.688"
Geomorphic Feature	a 1965 - 16 - 1	
River	Lake	Swale
Stream	D Pond	Erosional Channel
Canal	Impoundment	Gully
Irrigation Channel	D Playa	Depressional Basin
Drainage Channel	Constructed Basin	Rock Basin
Excavated Ditch	Unvegetatted Depression	Other:
Apparent Hydrologic Regime		
Perennial	Standing Water (Dept)	h:)
Intermittent	Flowing Water (Depth	n)
Ephemeral	Dry at time of the surve	еу
Indictors		
Standing or flowing water with indication of recent precipitatio		helf D Natural / irrigation / manmade / ditch flowing into feature
presence of hydrophytic vegeta	ation D Natural line, stain or mineral (salt) deposit	Dated picture / account showing / referring to identifiable features
Presence of hydric soil with or without hydrophytic vegetation		ay Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map)
Absence of vegetation or intern of upland vegetation	uption 🔲 Algae or alga mat	Other (Specify)
· NITD INT		S CALABASAS QUAD
· NWI -PS		
- SPARSE UM	TER I DEBRIS &	FPOSITS
5 T 4	· · · · ·	

Channel Width	8 FT					
Channel Depth	IFT .					
Low Flow Width	5.5 FT	8				
Low Flow Depth		46 INCHES				
Channel Substrate (check	all that apply)					
Sand	Cobble	Silt / Clay				
Gravel	Rock	Other				
	O / GRAVEL SUBS	TRATE				
Vegetation Characteristic						
Vegetated Channel or Basi	n? 🛛 Yes 🔏 I	No				
Dominant / Characteristic S	pecies					
Vegetation Adjacent to C	hannel					
	1 CA.					
Dominant / Characteristic S	species					
AUERIUS A	CRIEDULA - SCA	TTERED MONG TOP OF				
		THERE ALONG TOP DI-				
CHANNEL	BANKS					
Contractor of the	Process of States and	a state back of a first of the				
ERIODICT YOR	CRASSIFOLIUN	1, PHACELLA RAMOSISSIMA				
BACCHARIS P	ILULARIS CARDI	US PTUNOCEPHALUS,				
	The second second in the second					
PIPTATHERUM	MILACEUM, TOX	ICOPENPRON DIVERSILOBUM				
Notes: BRASSICA	+ MIGRA					
· · · · · · · · · · · · · · · · · · ·		And the Second				
		a di la chuanta				
WEALOUT EX	PRESSED SAT	D- GRAVEL CHANNEL				
WITHIN DE	EPLT INCISED	CHANNEL				
	States and States	a free and a second				
		" DIAM CULVERT				
THAT IS .	NSOTO FILLED	WITH SEDIMENT				
NO EVIDE	NCE OF POPPI	NG BEHIND				
CULVERT						
SACVARID REGION DATA SHEET		2				

Observers: <u>Russell Huddleston and</u>	Steve Long	
Feature Name NORTHERN	DRAINAGE Sa	mple Point ND - 4
Feature Name <u>NOR THEEN</u> GPS Location: <u>34° 14' 11. :</u>	562" 118° 41'	14.209"
Geomorphic Feature		
River	🖵 Lake	Swale
Stream	D Pond	Erosional Channel
Canal	Impoundment	Gully
Irrigation Channel	🗅 Playa	Depressional Basin
Drainage Channel	Constructed Basin	Rock Basin
Excavated Ditch	Unvegetatted Depression	Other:
Apparent Hydrologic Regime		
D Perennial	Standing Water (Depth:_)
	Flowing Water (Depth_)
Ephemeral	Dry at time of the survey	
Indictors		
Standing or flowing water with no indication of recent precipitation	Channel adjacent to shel with steep side	f D Natural / irrigation / manmade ditch flowing into feature
presence of hydrophytic vegetation	Natural line, stain or mineral (salt) deposit	Dated picture / account showing / referring to identifiable features
Presence of hydric soil with or without hydrophytic vegetation.	Litter, debris and or clay deposits	Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map)
Absence of vegetation or interruption of upland vegetation	Algae or alga mat	Other (Specify)
Notes: BLUE LINE : - NIAD INT. S - NWI - PSSA		S CALABASAS QUAD
· SPARSE LITTER / DI · WATER STAINING		

Channel Width	8FT	•				
Channel Depth	IFT					
Low Flow Width	3.5F	Г	a			
Low Flow Depth	6 INCITES					
Channel Substrate (check all tha	t apply)					
Sand	🛛 Cobble		Silt / Clay			
Gravel	A Rock		Other			
MOSTER SAND/GRA	WEL W/	Some co	BBLE, SANDSTONE ROLL			
Vegetation Characteristics of						
Vegetated Channel or Basin?	Yes	D No	2 5% TOTAL COVER			
Dominant / Characteristic Specie	S		SEEDUNGS			
Vegetation Adjacent to Chann Dominant / Characteristic Specie						
Dominant / Characteristic Specie	S					
WERCUS AGRIFO	UA AN	D HETER	ZOMELES ARBUMFOUA			
ALONG UPPE	r for	S OF TH	E CITANNEL			
ADENOSTOMA FA	Scient	TUM 22	ASSIGA JUGEA			
GAYUM SP, CAT						
			TATIONS			
PIPTATHERUM	MILITCH	n -				
CHANNELS FLC CMP UNDER	Rento .	- WATER	SZ INCH DIAM STAINING ON INCHES REEP			
-SMALL TRIBUTA SOUTH OF 1771 WIDE, LESS 7	s paint	- CHA	NNEL 12-18 INCHES			

The	ject: <u>NASA - Santa Susana Fielo</u> servers: Russell Huddleston and	1 Ste	velong		
				nla	Point ND -5
GP	ture Name <u>NORTHERN</u> S Location: <u>34° 14' 1</u> 2	. 7	41' 118°	цріе 4	11' 17. 018''
Geo	omorphic Feature				
	River		Lake		Swale
X	Stream		Pond		Erosional Channel
ב	Canal		Impoundment		Gully
	Irrigation Channel		Playa		Depressional Basin
	Drainage Channel		Constructed Basin		Rock Basin
	Excavated Ditch		Unvegetatted Depression		Other:
Api	parent Hydrologic Regime				
	Perennial		Standing Water (Depth:		3
X	Intermittent		Flowing Water (Depth		
	Ephemeral	ø	Dry at time of the survey	5	
Ind	ictors				
	Standing or flowing water with no indication of recent precipitation		Channel adjacent to shelf with steep side		Natural / irrigation / manmade ditch flowing into feature
Ģ	presence of hydrophytic vegetation		Natural line, stain or mineral (salt) deposit		Dated picture / account showing / referring to identifiable features
a	Presence of hydric soil with or without hydrophytic vegetation	X	Litter, debris and or clay deposits	ø	Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map)
۵	Absence of vegetation or interruption of upland vegetation		Algae or alga mat		Other (Specify)
Not	tes:		A to the set		
	- BLUE LINE STR			CA	LABASAS QUAD
	- NHD INT. STR , NWI PSSA	EA	TH .		and the second
	· SPARSE LITTER IN CITANNEL	1.	DEBRIS, W.	RA	the LINES

Channel Width	11.51	FT		
Channel Depth	NIFT			
Low Flow Width	9FT	6) 		
Low Flow Depth	LIFT			
Channel Substrate (check all that	apply)			
Sand	Cobble		Silt / Cl	
Gravel	Rock			ay
			Other_	
SANDY CHANNED			SANDSTO	NE ROCK
Vegetation Characteristics of (Channel or Basi	n		
Vegetated Channel or Basin?	Yes	🔲 No	2 5%	TUTAL CONER
Dominant / Characteristic Species	5		SEI	SPLINGS
CARDUUS PYCN	OCERILA	1.115	Me	sry
PIPTATHERUM				
Dominant / Characteristic Species		ALCNG	UPPER S	LOPES
RIBES MALVAG SAMBULUS NI				
Notes: <u>SAMPLE</u> P SZ -INCH DIA	m cmp	ST DOW OUTFA	2L	

2

SACVARID REGION DATA SHEET

Observers: <u>Russell Huddleston and</u>		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
Feature Name NorMHERN GPS Location: 34°14′13,	DRANNOE Sar	nple Point <u>PP - 6</u>
GPS Location: <u>34°14'13</u> ,	612" 118 41	18.709"
Geomorphic Feature		
C River	Lake	Swale
X Stream	D Pond	Erosional Channel
🗋 Canal	Impoundment	Gully
Irrigation Channel	🗅 Playa	Depressional Basin
Drainage Channel	Constructed Basin	Rock Basin
Excavated Ditch	Unvegetatted Depression	• Other:
Apparent Hydrologic Regime		-
Perennial	Standing Water (Depth:	
Intermittent	Flowing Water (Depth)	
D Ephemeral	Dry at time of the survey	
Indictors		
Standing or flowing water with no indication of recent precipitation	Channel adjacent to shelf with steep side	Natural / irrigation / manmade ditch flowing into feature
presence of hydrophytic vegetation	Natural line, stain or mineral (salt) deposit	Dated picture / account showing / referring to identifiable features
Presence of hydric soil with or without hydrophytic vegetation	Litter, debris and or clay deposits	Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map)
Absence of vegetation or interruption of upland vegetation	Algae or alga mat	Other (Specify)
Notes:	la del tratala	
· BLUE LINE ON · NITO ENT. STR	US65 CALABASA	S QUAR
	EAM	
· NWI - PSSA		

Т

12 FT	
1-ZFT	
8FT .	
6 INCITES	
at apply)	
Cobble	Silt / Clay
X Rock	D Other SAMPSTONE BOULPERS
Channel or Basin	percent s
Yes 🛛 No	L 5% TOFAL LOVER
es	
	CONFIR
MILACEUM	COVIEIE
MILACEUM	
And a second one	
MILACEUM	
MILACEUM	
	I-ZFT BFT BFT BFT Cobble A Cobble A Rock SCME COBBLES / Channel or Basin A Yes □ No

TOXICODENDRON DIVERSILOBUM

1

16

2

PHACELIA RAMOSISSIMA

Notes:

SACVARID REGION DATA SHEET

Observers: <u>Russell Huddleston and</u>	Terrester			
Feature Name NorthERN GPS Location: 34° 14'	DICAI	all uno	mple I	' 70 000 "
GPS Location: <u>39 74</u>	19.59	5 110	91	20,801
Geomorphic Feature	_	,		
River	🛛 Lake			Swale
Stream	D Pond	6		Erosional Channel
Canal	🔲 Impo	undment		Gully
Irrigation Channel	D Playa	a .		Depressional Basin
Drainage Channel	Cons	tructed Basin		Rock Basin
Excavated Ditch		getatted ession		Other:
Apparent Hydrologic Regime				
Perennial	Stan	ding Water (Depth:_)
Intermittent	G Flow	ing Water (Depth	, i)
Ephemeral	Dry a	at time of the survey		
Indictors				
Standing or flowing water with no indication of recent precipitation		nnel adjacent to shelf steep side		Natural / irrigation / manmade ditch flowing into feature
presence of hydrophytic vegetation		ral line, stain or ral (salt) deposit		Dated picture / account showing / referring to identifiable features
Presence of hydric soil with or without hydrophytic vegetation	Litter depo	, debris and or clay sits	ø	Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map)
Absence of vegetation or interruption of upland vegetation	🗋 Alga	e or alga mat		Other (Specify)
Notes:				
· BLUE LINE C. • NITO INT. S • NWI - PSSA	N USO	S CALAB,	45A	s anad
AUNI Dech	INFAT	-1		
· 10001 - 1000A				

Channel Width	IZFT	
Channel Depth	NIFT	10 m 1 m 2
Low Flow Width	GFT	*** ** **
Low Flow Depth	6 INCITES	
Channel Substrate (check	all that apply)	
Sand	🖄 Cobble	Silt / Clay
Gravel	Rock	Other
	VEL W/ SCHE G	RAVELS / COBBLE
Vegetation Characteristic		
Vegetated Channel or Basi	n? Yes D	No
Dominant / Characteristic S	ipecies	A share a share see
RACCHARIS	SALICIEONA .	- SPARSE 2 5% CONER
<i>pr</i> 11.11-11		
ARTEMISIA		
	M MILACEUM	
PHACELIA RA		
BRASSICA N	10104	
Notes:		
		+

2

SACIARID REGION DATA SHEET

bservers: <u>Russell Huddleston and</u>	l Ste	ve Long		
eature Name AREA I - ER	051	WAL CHAN. Sam	nple	Point
GPS Location:	4"	14' 22.412" 1	18	" 41' 18. 196 "
eomorphic Feature				
River		Lake		Swale
Stream		Pond	X	Erosional Channel
Canal		Impoundment		Gully
Irrigation Channel	Ò	Playa		Depressional Basin
Drainage Channel		Constructed Basin		Rock Basin
Excavated Ditch		Unvegetatted Depression		Other:
Apparent Hydrologic Regime				
Perennial		Standing Water (Depth:)
Intermittent		Flowing Water (Depth		
Ephemeral	Ø	Dry at time of the survey		
ndictors				
Standing or flowing water with no indication of recent precipitation		Channel adjacent to shelf with steep side		Natural / irrigation / manmade ditch flowing into feature
presence of hydrophytic vegetation		Natural line, stain or mineral (salt) deposit		Dated picture / account showing / referring to identifiable features
Presence of hydric soil with or without hydrophytic vegetation		Litter, debris and or clay deposits		Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map)
Absence of vegetation or interruption of upland vegetation		Algae or alga mat	Ø	Other (Specify)
Notes: - DEFINED CU	Т	CITANNEL D	UR	TO EROSIEN!
UPSCEPE SUNOF				The second
SOUTHWEST INT	5	MPOUNDM	E	NT FRATURF

L

Channel Width	2.FT -	Z 1/2 FT
Channel Depth	5 INCITES	- IFT DEEP
Low Flow Width	IFT	
Low Flow Depth	2-3 , NCITE	2
Channel Substrate (check all that	apply)	
X Sand	Cobble	Silt / Clay
Gravel	Kock	Other
SANDY WI SOM	E CANDSTONE	BEDROCK
Vegetation Characteristics of (10000-
Vegetated Channel or Basin?	Yes X No	0
Dominant / Characteristic Species		
Vegetation Adjacent to Channe Dominant / Characteristic Species		
ERIODICTYON	CRASSIFOLI	M.
ERODINA RATE	AS (ENTAND	MALOSOMA LAURINA, LEA MELITENSIS
		THE MELINEP 213
POA SECUNDA	7	
Nutri		
Notes:		
	4	

MAGE Sample Point '' II8° 41' 32.614'' a Swale a Erosional Channel oundment Gully a Depressional Basin structed Basin Rock Basin egetatted Other: inding Water (Depth: ying Water (Depth) int time of the survey
e Swale d Swale Erosional Channel Dundment Gully a Depressional Basin Depressional Basin Rock Basin Other: nding Water (Depth:) ving Water (Depth)
d Berosional Channel Berosional Channel Gully Berosional Basin Berosional Basin Berosional Basin Berosional Basin Berosional Basin Depressional B
d Berosional Channel Berosional Channel Gully Berosional Basin Berosional Basin Berosional Basin Berosional Basin Berosional Basin Depressional B
bundment Gully a Depressional Basin structed Basin Rock Basin egetatted Other: ression Other:)
a Depressional Basin structed Basin egetatted ression ding Water (Depth:) ving Water (Depth)
structed Basin egetatted ression ding Water (Depth:) ving Water (Depth)
egetatted ression Other: nding Water (Depth:) ving Water (Depth)
ression inding Water (Depth:) ving Water (Depth)
ving Water (Depth)
ving Water (Depth)
at time of the survey
nnel adjacent to shelf I Natural / irrigation / manma steep side ditch flowing into feature
eral (salt) deposit Dated picture / account showing / referring to identifiable features
er, debris and or clay osits Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map)
ae or alga mat Other (Specify)
s CALABASAS QUAD
ALCNG LITANNEL

Channel Width	6 FT
Channel Depth	I FT
Low Flow Width	3FT
Low Flow Depth	6 INCHES
Channel Substrate (check all	
Mr	
Sand	Cobble STORAS Silt / Clay
Gravel	X Cobble STORES Silt/Clay X Rock - SANDERS O Other
SANDY SUBST	RATE W SCALE COBBLE / ROCKS
Vegetation Characteristics	of Channel or Basin
Vegetated Channel or Basin?	Yes 🔲 No
Dominant / Characteristic Sp	ecies
94	
paccharus s,	ALICIFOLIA - LESS THAN 5% CONER
RUMEX CRU	spus J
CARDUUS PY RUMEX CPU Vegetation Adjacent to Ch Dominant / Characteristic Sp QUERCUS AGA SALLY LASIOLE	CNOCEPHALUS TOTAL LESS THAN 5% SPUS CONER annel ecies
CARPUUS PY JUMEX CM Vegetation Adjacent to Ch Dominant / Characteristic Sp QUERCUS AGA SALIX LASIOLE STEMS - J TOXICO PENDR	CNOCEPHALUS (TOTAL LESS THAN 5% SPUS annel ecies 21FOLIA EPIS - ONE TREE/SHRUB W/MULTIPLE ALL LESS THAN 3" DBH
CARDUUS PY JUMEX CPU Vegetation Adjacent to Ch Dominant / Characteristic Sp QUERCUS AGA SAUX LASIOLU STRMS -J TOXICO PENDR CARDUUS PYCA	CNOCEPHALUS (TOTAL LESS THAN 5% SPUS annel ecies 21 FOLIA EPIS - ONE TREE/SHRUB W/ MULTIPLE ALL LESS THAN 3" DBH
CARDUUS PY RUMEX CRU Vegetation Adjacent to Ch Dominant / Characteristic Sp QUERCUS AGA SALLY LASIOLE STRMS - J TOXICO DENDR CARDUUS PYC Notes:	CNOCEPHALUS (TOTAL LESS THAN 5% SPUS annel ecies 21FOLIA EPIS - ONE TREE/SHRUB W/ MULTIPLE ALL LESS THAN 3" DBH NOCEPHALUS, PHACELIA RAMOSISSIMA
CARDUUS PY JUMEX CPU Vegetation Adjacent to Ch Dominant / Characteristic Sp QUEPCUS AGA SAUX LASIOLE STRMS -J TOXICO DENDR CARDUUS PYC Notes: DOWN STREAT	CNOCEPHALUS (TOTAL LESS THAN 5% SPUS annel ecies 21FOLIA EPIS - ONE TREE/SHRUB W/ MULTIPLE ALL LESS THAN 3" DBH NOCEPHALUS, PHACELIA RAMOSISSIMA M OF. THIS POINT SCATTERED
CARPUUS PY JUMEX CPU Vegetation Adjacent to Ch Dominant / Characteristic Sp QUEZCUS AGA SALLY LASIOLE STRMS - J TOXICO PENDR CARDUUS PYC Notes: DOWN STREAT PATRIFES OF	CNOCEPHALUS (TOTAL LESS THAN 5% SPUS annel ecies 21FOLIA EPIS - ONE TREE/SHRUB W/ MULTIPLE ALL LESS THAN 3" DBH NOCEPHALUS, PHACELIA RAMOSISSIMA
CARPUUS PY RUMEX CPU Vegetation Adjacent to Ch Dominant / Characteristic Sp QUERCUS AGA SAUX LASIOLE STRMS - J TOXICO PENDR CARDUUS PYCA Notes: DOWN STREAT PATRIFES OF VEGETATION	CNOCEPHALUS (TOTAL LESS THAN 5% SPUS annel ecies 21 FOLIA EPIS - ONE TREE/SHRUB W/ MULTIPLE ALL LESS THAN 3" DBH CON PIVERSILOBUM NOCEPHALUS, PHACELIA RAMOSISSIMA MOF. THIS POINT SCATTERED POLY POBON MORS PELIENSIS BUT CENERALLY SPARSE IN CHANNEL
CARDUUS PY JUMEX CPU Vegetation Adjacent to Chi Dominant / Characteristic Sp QUEZCUS AGA SAUX LASIOLU STRMS -J TOXICO DENDR CARDUUS PYCA Notes: DOWN STREAT PATEITES OF VEGETATTON - SCATTERED S	CNOCEPHALUS (TOTAL LESS THAN 5% SPUS annel ecies 21FOLIA EPIS - ONE TREE/SHRUB W/ MULTIPLE ALL LESS THAN 3" DBH NOCEPHALUS, PITACELIA RAMOSISSIMA NOCEPHALUS, PITACELIA RAMOSISSIMA MOF. THIS POINT SCATTERED POLY POBON MONS PELIENSIS BUT CENERALUT SPARSE, N CHANNEL PIPTATHERUM MILACEUM ALSO
CARDUUS PY JUMEX CPU Vegetation Adjacent to Chi Dominant / Characteristic Sp QUEZCUS AGA SAUX LASIOLU STRMS -J TOXICO DENDR CARDUUS PYCA Notes: DOWN STREAT PATEITES OF VEGETATTON - SCATTERED S	CNOCEPHALUS (TOTAL LESS TITAN 5% SPUS annel ecies 21 FOLIA EPIS - ONE TREE/SHRUB W/ MULTIPLE ALL LESS TITAN 3" DBH CON PIVERSILOBUM NOCEPHALUS, PITACELIA RAMOSISSIMA M OF. THIS POINT SCATTERED POUT POBON MONSPELIENSIS BUT CENERALLY SPARSE, IN CITANNEL PIRTATHERUM MILACEUM ALSO IN SOME PARTS OF THE

2

SACVARID REGION DATA SHEET

Observers: <u>Russell Huddleston an</u>	d Ste	ve Long	-	
Feature Name NOR THEP	J P.	RAINAGE Sam	ple	Point ND -9
GPS Location: 34° 14′ 1°	7.9	42 118 4	/	34.771
Geomorphic Feature			2	
River		Lake		Swale
Stream		Pond		Erosional Channel
Canal		Impoundment		Gully
Irrigation Channel		Playa		Depressional Basin
Drainage Channel		Constructed Basin		Rock Basin
Excavated Ditch		Unvegetatted Depression		Other:
Apparent Hydrologic Regime				
Perennial		Standing Water (Depth:		<u> </u>
X Intermittent		Flowing Water (Depth)
Ephemeral	Ø	Dry at time of the survey		
Indictors				
Standing or flowing water with no indication of recent precipitation		Channel adjacent to shelf with steep side		Natural / irrigation / manmade ditch flowing into feature
presence of hydrophytic vegetation		Natural line, stain or mineral (salt) deposit		Dated picture / account showing / referring to identifiable features
Presence of hydric soil with or without hydrophytic vegetation	X	Litter, debris and or clay deposits	ø	Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map)
Absence of vegetation or interruption of upland vegetation	•	Algae or alga mat		Other (Specify)
Notes:				
· BLUE LINE OF · NITD INTER · NWI - PSSA	MI	ISGS CALABAS	AS	i aut D M

Channel Characteristics Channel Width 10 FT Channel Depth 1.5-2FT YFT Low Flow Width Low Flow Depth L6 INCITES Channel Substrate (check all that apply) Sand Cobble Silt / Clay K Rock Gravel Other SANDSTONE BEDROCK / BOULDERS Vegetation Characteristics of Channel or Basin Vegetated Channel or Basin? No No Yes **Dominant / Characteristic Species** Vegetation Adjacent to Channel Dominant / Characteristic Species QUERCUS AGRIFOLIA, KECKIELLA CORDIFOLIA. SALVIA MELIFERA BRASSICA MIGRA PHACELIA RAMOSISSIMA, CARDUUS PYCNOCEPHALUS PIPTATHERUM MILEACEUM Notes: DOWN STREAM OF TITLS POINT VERY LARGE

SANDSTONE BOULDERS IN THE CHANNEL FOR APPROX 300 FT NO ACCESS TO THIS PORTION OF THE LAANNEL - WATER APPEARS TO FLOW UNDER ROCUS IN THIS AREA

Observers: <u>Russell Huddleston and</u>	d Ste	ve Long	_	
Feature Name NORTHERN	PR	MNAGE Sam	ple	Point_ND-10
GPS Location: 34° 14'	18.	352" 118	941	Point ND-10 1' 40.599"
Geomorphic Feature				
River		Lake		Swale
Stream		Pond		Erosional Channel
Canal		Impoundment		Gully
Irrigation Channel		Playa		Depressional Basin
Drainage Channel		Constructed Basin		Rock Basin
Excavated Ditch		Unvegetatted Depression		Other:
Apparent Hydrologic Regime				
Perennial		Standing Water (Depth:)
Intermittent		Flowing Water (Depth		<u>`</u>
Ephemeral	×	Dry at time of the survey		
Indictors				
Standing or flowing water with no indication of recent precipitation		Channel adjacent to shelf with steep side		Natural / irrigation / manmade ditch flowing into feature
presence of hydrophytic vegetation		Natural line, stain or mineral (salt) deposit		Dated picture / account showing / referring to identifiable features
Presence of hydric soil with or without hydrophytic vegetation	Ø	Litter, debris and or clay deposits	Ø	Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map)
Absence of vegetation or interruption of upland vegetation		Algae or alga mat		Other (Specify)
Notes: BLUE LINE	or	uses call	BA.	SAS QUAD
- NITO INT. S	C. C. I	FAM		
· NWI - PSSA	1			

Channel Width	TFT		
Channel Depth	1-2.FT		
Low Flow Width	SFT		1
Low Flow Depth	NEINCH	ES	
Channel Substrate (check all tha	t apply)		
Sand	Cobble	Silt / Clay	
Gravel	Rock	Other	
CANDSTONE R	1	HE AND SOME SAT	
Vegetation Characteristics of		he this serie sat	1
Vegetated Channel or Basin?	Ves X No		
)	
Dominant / Characteristic Specie	95		_
Vegetation Adjacent to Chann Dominant / Characteristic Specie QUERCUS AGR HETEROMEUE	S ARBUTTFOL	ELLULARIA CALIFOI IA, RUBIS URSINU	2 MILA 5,
SAUX LASIOLEP	15 & SMALL SITE	L 3" DBIT	15)
PIPTATHERUM	MILACEUM,	POMPOGEN MONSPE	HENS
Notes:			
SANDSTONE	BOLLPERS	IN CHANNEL	
	M OF TH		
NEATE SAM	PUNG WEIR		

bservers: <u>Russell Huddleston a</u>		D
eature Name <u>ELU P</u> GPS Location: <u>34° 14' 16</u>	RAINAGE Sa	mple Point <u>ELV -1</u>
GPS Location: <u>34° 14' 16</u>	5.023" 118° 41	41.211
eomorphic Feature		
River	Lake	Swale
Stream	D Pond	Erosional Channel
Canal	D Impoundment	Gully
Irrigation Channel	D Playa	Depressional Basin
Drainage Channel	Constructed Basin	Rock Basin
Excavated Ditch	Unvegetatted Depression	• Other:
Apparent Hydrologic Regime		
Perennial	Standing Water (Depth:)
	Flowing Water (Depth_	j
Ephemeral	Dry at time of the survey	
ndictors		
Standing or flowing water with no indication of recent precipitation	Channel adjacent to she with steep side	If D Natural / irrigation / manmade ditch flowing into feature
presence of hydrophytic vegetation	Natural line, stain or mineral (salt) deposit	Dated picture / account showing / referring to identifiable features
Presence of hydric soil with or without hydrophytic vegetation	Litter, debris and or clay deposits	Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map)
Absence of vegetation or interruption of upland vegetation	on 🔲 Algae or alga mat	Other (Specify)
	S A BLUE LIN	
NO STRONG EVIL	DENCE OF REC OPOGRAPIAL LC	OULTR FLOWS

Channel Width	4 FT		
Channel Depth	NIFT		4
Low Flow Width	3Ft	-2.	
Low Flow Depth	6 INCHES	T	
Channel Substrate (check	c all that apply)		
Sand	Cobble		Silt / Clay
Gravel	Rock	N	Other SANDSTONE BOULDERS

Vegetation Characteristics of Channel or Basin

Vegetated Channel or Basin?	🔲 Yes	No No	
Dominant / Characteristic Species	5		

Vegetation Adjacent to Channel

Dominant / Characteristic Species

QUERCUS AGRIFOLIA, UMBELLULARIA CALIFORNICA,
MALA COTH AMMUS FASICULATUS, ADENOSTOMA FASICULATUM
HERTERMELES ARBUTTFOUR, CEANOTHUS CRASSIFOLUS,
TOXICODENDRON DIVERSILOBUM, CARDUUS PYCNOCEPHAUS,
PHACELIA RAMOSISSIMA, VENEGASIA CARPESIOIDES LEYMUS CONDENSATUS

Notes: - MORE DEVELOPED CHANNEL UPSLOPE

LETS OF DOWNED WOODY DEBRIS IN THE CHANNEL IN THIS AREA

DENSE TOXICORNPRON PIVERSILOBUM IN SOME AREAS

SACVARID REGION DATA SHEET

Observers: <u>Russell Huddleston and</u>	l Steve Long		
Feature Name <u>ELU DIA II</u>		ple Point <u>FLV - Z</u>	
GPS Location: 34° 14' 17	840 118 41	41.018	
Geomorphic Feature			
Carl River	🗋 Lake	Swale	
X Stream	D Pond	Erosional Channel	
Canal	Impoundment	Gully	
Irrigation Channel	🗋 Playa	Depressional Basin	
Drainage Channel	Constructed Basin	Rock Basin	
Excavated Ditch	Unvegetatted Depression	Other:	
Apparent Hydrologic Regime			
Perennial	Standing Water (Depth:)	
	Flowing Water (Depth)		
Ephemeral	Dry at time of the survey		
Indictors			
Standing or flowing water with no indication of recent precipitation	Channel adjacent to shelf with steep side	Natural / irrigation / manmade ditch flowing into feature	
presence of hydrophytic vegetation	Natural line, stain or mineral (salt) deposit	Dated picture / account showing / referring to identifiable features	
Presence of hydric soil with or without hydrophytic vegetation	Litter, debris and or clay deposits	Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map)	
Absence of vegetation or interruption of upland vegetation	Algae or alga mat	Other (Specify)	
Notes: NOT A BLUE LIN			
A design of the second s	RECENT FLCM) - Lew	
NO EVIDENCE OF			
NO EVIDENCE OF TOPOGRAPHIC FEA		DEFINED	
	TURE, Some,		

Channel Width	NIOFT				
Channel Depth	IFT				
Low Flow Width	2.5 FT				
Low Flow Depth	6 INCITES	Z.SFT GINCHES			
Channel Substrate (checl	c all that apply)				
Sand	Cobble	Silt / Clay			
Gravel	X Rock	BOULDERS			
A D L D . MARKET THE REAL PROPERTY AND A D	tics of Channel or Basin				
Dominant / Characteristic	- 100 /-0 11				
Vegetation Adjacent to	Channel				
Dominant / Characteristic	Species				

QUERC	us AGRIFOL	1A, UMBELLULA	FRIA CALIFORNICA,
TOXIC	DENDRON	PIVERSILOBUM,	ROSA CAMFORNICA,
HERT	ERCMELES	ARBUTTFOULA	
MACA	otHAMNUS	FASICULATU.	S
PIPTA	THRRUM	MILECEUM	

Notes:

TITIS FEATURE FLOWS INTO THE NORTHER. DRAINAGE TUST UPSTREAM OF SAMPLE WE

......

Observers: <u>Russell Huddleston and</u>		e.	2.0	
Feature Name <u>ELV DRA</u> GPS Location: <u>34° 14' 13</u>	IN,	ACE San	ple	Point <u>F40-5</u>
GPS Location: <u>34° 14' 13</u>	. 6	51" 118 41	_	42.620
Geomorphic Feature	_	-	_	
River		Lake		Swale
Stream		Pond		Erosional Channel
Canal		Impoundment		Gully
Irrigation Channel		Playa		Depressional Basin
Drainage Channel		Constructed Basin		Rock Basin
Excavated Ditch		Unvegetatted Depression		Other:
Apparent Hydrologic Regime				
Perennial		Standing Water (Depth:		Ĵ
		Flowing Water (Depth)
Ephemeral	Ø	Dry at time of the survey		
Indictors				
Standing or flowing water with no indication of recent precipitation		Channel adjacent to shelf with steep side		Natural / irrigation / manmade ditch flowing into feature
presence of hydrophytic vegetation		Natural line, stain or mineral (salt) deposit		Dated picture / account showing / referring to identifiable features
Presence of hydric soil with or without hydrophytic vegetation		Litter, debris and or clay deposits		Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map)
Absence of vegetation or interruption of upland vegetation		Algae or alga mat		Other (Specify)
Notes: Not A BUE G	me	E		
- NO EVIDENCE OF	10	recent flu	υ.	N TITAS
ARRA, LOW TOPOO	RA	PITIC AREA	- ;	SWARELINE
FRANCE - MORE				

Channel Width	7 FT	
Channel Depth	IFT	
Low Flow Width	3.5 FT	
Low Flow Depth	LEINCIFES	S
Channel Substrate (check	all that apply)	
Sand	Cobble	Silt / Clay
Gravel	Rock	Other SANDSTONE BOULDER
		BOULDER

Vegetation Characteristics of Channel or Basin

Vegetated Channel or Basin?	Yes	No No	
Dominant / Characteristic Species	5		

Vegetation Adjacent to Channel

Dominant / Characteristic Species	
OUERCUS AGRIFOLIA, MALACOTAAMNUS FI	SICULATION
MALOSOMA LAWRINA, RIBES MALVACE	M,
ARTEMESIA CALIFORNICA, MIMULUS A	URANTIACUS
PHACACEA RAMOSISSIMA, VENEGASIA O	HEPESIOIDES
Notes:	
	1
	and the second sec

SACIARID REGION DATA SHEET

Observers: <u>Russell Huddleston and</u>	l Ste	ve Long		
Feature Name $DRAINAGE$ GPS Location: 34° 14'	1] - 1 San	nple	Point <u>A1-1</u>
GPS Location: <u>34° 14'</u>	11	. 482" 118	0	41' 39.657"
Geomorphic Feature				
River		Lake		Swale
C Stream		Pond		Erosional Channel
Canal		Impoundment		Gully
Irrigation Channel		Playa		Depressional Basin
Drainage Channel		Constructed Basin		Rock Basin
Excavated Ditch		Unvegetatted Depression	۵	Other:
Apparent Hydrologic Regime				
Perennial		Standing Water (Depth:)
Intermittent		Flowing Water (Depth)
S Ephemeral	X	Dry at time of the survey		
Indictors				
Standing or flowing water with no indication of recent precipitation		Channel adjacent to shelf with steep side		Natural / irrigation / manmade ditch flowing into feature
presence of hydrophytic vegetation		Natural line, stain or mineral (salt) deposit		Dated picture / account showing / referring to identifiable features
Presence of hydric soil with or without hydrophytic vegetation		Litter, debris and or clay deposits		Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map)
Absence of vegetation or interruption of upland vegetation		Algae or alga mat		Other (Specify)
Notes: NO BLUE LINE				
- TOPOGRAPHAC LO AT READ WAY -	w	AREA - RIP	- 10	AP / WWERT
AT READWAY -	L	PSLOPE WE	AA	WT EXPRESSED
EROSIONAL FE				

Channel Width	ZFT	
Channel Depth	1.5 FT	а н
Low Flow Width	1.5 FT	
Low Flow Depth	66 INCHES	
Channel Substrate (check all the	nat apply)	
🖄 Sand	DE Cobble (SPARSE)	Silt / Clay
Gravel	Rock	Other

Vegetation Characteristics of Channel or Basin

Vegetated Channel or Basin?	🛛 Yes	No No	
Dominant / Characteristic Species	5		
· · · · · · · · · · · · · · · · · · ·			

Vegetation Adjacent to Channel

Dominant / Characteristic Species

OVERUS	AGRIFOULA, MALACOTHAMMUS FASICULATUM,
RIBES	MALVACEUM, CARDUUS PTENOCEPHALUS,
	1A RAMOSISSIMA

Notes: SWALE / CHANNEL EMPTIES INTO LOW DEPRESSION AL AREA WI RIP-RAP AND 29 INCIT DIATI CULVERT (PLASTIC PIPE) UNDER ROAD

Observers: <u>Russell Huddleston and</u>	l Steve Long	and the second se
Feature Name <u>DRAMMAGE</u> GPS Location: <u>34° 14'</u>	A-1 5	ample Point <u>A1 - Z</u>
GPS Location: <u>34° 14'</u>	13.533" 118	° 41' 42.086"
Geomorphic Feature	8 Y	
River	🗖 Lake	Swale
Stream	D Pond	Erosional Channel
Canal	Impoundment	Gully
Irrigation Channel	D Playa	Depressional Basin
Drainage Channel	Constructed Basin	Rock Basin
Excavated Ditch	Unvegetatted Depression	D Other:
Apparent Hydrologic Regime		
D Perennial	Standing Water (Depth)
	Flowing Water (Depth_	
A Ephemeral	Dry at time of the survey	y
Indictors		
Standing or flowing water with no indication of recent precipitation	Channel adjacent to she with steep side	elf D Natural / irrigation / manmade ditch flowing into feature
presence of hydrophytic vegetation	Natural line, stain or mineral (salt) deposit	Dated picture / account showing / referring to identifiable features
Presence of hydric soil with or without hydrophytic vegetation	Litter, debris and or clay deposits	Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map)
Absence of vegetation or interruption of upland vegetation	Algae or alga mat	Other (Specify)
Notes		
NO BLUE LINE		
Law TOPOGRAPITIC	- SWACE, WE	ANY EXPRESSED
CHANNEL		

Channel Width	8 FT	
Channel Depth	IFT	
Low Flow Width	3FT	1
Low Flow Depth	26 INCHE	5
Channel Substrate (check	all that apply)	
X Sand	Cobble	Gilt / Clay
Gravel	Rock	Other ASPHANT DEBIELS
		DEBRIS

Vegetation Characteristics of Channel or Basin

Vegetation Adjacent to Channel

LUIA MEHFERA	
COLARIS PILULARIS	
LOSOMA LAURINA	
RIODICTION CRASSIFOLIUM	-

N PLASTIC PIPE UNPER ROAP

FLOWS WEST INTO ELV DRAINAGE

۰.

	<u>ld Lab</u>	Date: 1/6/2012
bservers: <u>Russell Huddleston a</u>		
eature Name PRM ~A6E	A-2.	Sample Point A2-
GPS Location: 34° 14′ 0	9.789" 118	° 41' 47.834 "
eomorphic Feature		
River	🖵 Lake	Swale
Stream	D Pond	Erosional Channel
Canal	Impoundment	Gully
Irrigation Channel	🗅 Playa	Depressional Basin
Drainage Channel	Constructed Basin	Rock Basin
Excavated Ditch	Unvegetatted Depression	Other:
Apparent Hydrologic Regime		
Perennial	Standing Water (Dept	th:)
Intermittent	Given States Flowing Water (Dept	th)
S Ephemeral	Dry at time of the surv	vey
ndictors		
Standing or flowing water with no indication of recent precipitation	Channel adjacent to s with steep side	shelf D Natural / irrigation / manmade ditch flowing into feature
presence of hydrophytic vegetation	Natural line, stain or mineral (salt) deposit	Dated picture / account showing / referring to identifiable features
Presence of hydric soil with or without hydrophytic vegetation	Litter, debris and or cl deposits	lay Uvetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map)
Absence of vegetation or interruptic	n 🗋 Algae or alga mat	Other (Specify)
of upland vegetation		

2-4 FT	*		
oply)			
Cobble		Gilt / Clay	
Rock		Other	

Vegetation Characteristics of Channel or Basin

Vegetated Channel or Basin?	Yes	D No	
Dominant / Characteristic Specie	S		
TUXICODENDR	ON DIVE	RSILO BU	M ZUPPER EDGES
MIMULUS AU,	RANTIA	cus	S OF CITATIEL

Vegetation Adjacent to Channel

Dominant/Characteristic Species GUERULS AGRIFOMA, TEXICODENDRON DIVERSILOBUM, CARDULS PYCNOCEPITALUS, LEYMUS CONDENSATUS PHACEUA RAMOSISSIMA, BREMUS DUANDRUS PSEUDOGNAPTHAULUM BIOLETTII

Notes: WELL DEFINED DEFPLY INCISED CHANNEL JUST UP FROM ZY INCIT PIAM CMP AT ROAD - CHANNELS BECOMES SMALLER AND MORE NARROW TO THE SOUTH EVENTUALLY BECCMING A DISCONTINUOUS ERCSIONNE CHANNEL

2

ASPITATE PRAINAGE

SACVARID REGION DATA SHEET

eomorphic Feature	34	ALFA Sar 13' 58.097	nple	Point comment
PS Location: <u>AVE Ports</u>	34	13' 58.097		
River			118	° 41' 36.895"
		Lake		Swale
Stream		Pond		Erosional Channel
Canal	X	Impoundment		Gully
Irrigation Channel		Playa		Depressional Basin
Drainage Channel		Constructed Basin		Rock Basin
Excavated Ditch		Unvegetatted Depression	a	Other:
opparent Hydrologic Regime				
Perennial		Standing Water (Depth:_)
Intermittent		Flowing Water (Depth)
Ephemeral	Ø	Dry at time of the survey		
ndictors		and a second and the		
Standing or flowing water with no indication of recent precipitation	U	Channel adjacent to shell with steep side	<u> </u>	Natural / irrigation / manmade ditch flowing into feature
presence of hydrophytic vegetation		Natural line, stain or mineral (salt) deposit		Dated picture / account showing / referring to identifiable features
Presence of hydric soil with or without hydrophytic vegetation	0	Litter, debris and or clay deposits		Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map)
Absence of vegetation or interruption of upland vegetation		Algae or alga mat		Other (Specify)
Notes: SHOWN AS BURE				
CALABASAS QUAD;	NH	D STREAM -	IMP	OUNDED AREAS
SHOWN AS PSSC ON	~ 1	WWI (FORFESTE	D/	SHEUB WETCHND)

Channel Width	5.5 FT 0	Just BEFORE ENTERS
Channel Depth	2.5 FT) 24" CMP AT WEST
High Water Line Width		END OF THE PROJ.
High Water Line Depth	1. I	AREA
Channel Substrate (check al	that apply)	
Sand	Cobble	Silt / Clay
Gravel	Rock	Other

Vegetation Characteristics of Channel or Basin

Vegetated Channel or Basin?	🛛 Yes	X No	
Dominant / Characteristic Species	8		

Vegetation Adjacent to Channel

Dominant / Characteristic Species

BACCHARIS SAUCIFOUR, TOXICODENDEND DIVERSILOBUM, ADENOSTOMA FASCICULATUM, MALACOTHAMMUS FASCICULAMS, MALOSOMA LAURINA, ERIOPICTION CRASSIFOCIUM

Notes: UPPER REACH GOES INTO 24 INCH DIAMEER CULVERT UNDER FILL FAST OF AUPHA TEST STANRS

- AT LUERT DISCHARGE - ABOUT 60% FILLED CULVERT OPENING - DENSE MESEMBRYANTHEMUM CRYSTALLINUM IN DISCHARGE AREA - DOWN STREAM NO DEFINED CHANNEL OR OHMM - SOME BACCHARIS SACICIFOUR, SALLY LASIOCEPS WI BRASSICA MORA CARDUUS PYCNOCEPHACUS, BRONUS PIANDPUS AVENA ER

bservers: <u>Russell Huddleston and</u>	I Stev	ve Long		
eature Name <u>BELL</u> CREEP	c		ple	Point IMPOUNDMENT
GPS Location: 34° 13' 58	. 8	37" 118° 41	1	40.151"
eomorphic Feature				
River		Lake		Swale
Stream		Pond		Erosional Channel
Canal	X	Impoundment		Gully
Irrigation Channel	í.	Playa		Depressional Basin
Drainage Channel		Constructed Basin		Rock Basin
Excavated Ditch		Unvegetatted Depression		Other:
Apparent Hydrologic Regime				
Perennial		Standing Water (Depth:)
Intermittent		Flowing Water (Depth)
Ephemeral	×	Dry at time of the survey		
Indictors				
Standing or flowing water with no indication of recent precipitation		Channel adjacent to shelf with steep side		Natural / irrigation / manmade / ditch flowing into feature
presence of hydrophytic vegetation		Natural line, stain or mineral (salt) deposit		Dated picture / account showing / referring to identifiable features
Presence of hydric soil with or without hydrophytic vegetation		Litter, debris and or clay deposits	M	Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map)
Absence of vegetation or interruption of upland vegetation		Algae or alga mat	۵	Other (Specify)
Notes: SHOWN AS A BL	UE	LINE on US	55	TOPO FOR
THE CALABASAS an	AD,	, NWI (PSSC)	For	ESTED / SCRUB
WERTHOD; NHD ST				
NO EUIDENCE OF	95	CENT MANM	1	CLOWS

Channel Width	N 15' WIDE (NO MEASUREMENT TAMEN
Channel Depth	~ Z FRET TO TOP OF IMPOURPMENT
High Water Line Width	TO LINE TO IST OF IMJORPHEN
High Water Line Depth	
Channel Substrate (check all	l that apply)
Sand	Cobble Silt / Clay
Gravel	Rock Other
Vegetation Characteristics	s of Channel or Basin
Vegetated Channel or Basin?	? XI Yes INO
Dominant / Characteristic Sp	
SAUX LASIOL	EPIS -) BACK TO 24" CMP
	DISCITAROE TUPLAND UNDERSTRING IFERBS - WILLOWS
Vegetation Adjacent to Ch	TUPLAND UNDERSTRANT IN FORBS - WILLOWS 1710N - 85-90% DEAD IN SOME AREAS Dannel
IN POOR CONDI	TUPLAND UNDERSTRANT IN FORBS - WILLOWS 1710N - 85-90% DEAD IN SOME AREAS Dannel
IP Page Con Pl Vegetation Adjacent to Ch Dominant / Characteristic Sp	TUPLAND UNDERSTRANT IN FORBS - WILLOWS 1710N - 85-90% DEAD IN SOME AREAS Dannel
IN Part CONDI Vegetation Adjacent to Ch Dominant / Characteristic Sp BACCIJAPUS PILLO	TUPLAND UNDERSTRIMT IN FORBS - WILLOWS 1710N - 85-90% DEAD IN SOME AREAS mannel Decies
IN Part CONDI Vegetation Adjacent to Ch Dominant / Characteristic Sp BACCIHAPUS PILLO	TUPHND UNDERSTRAMT IN FORBS - WILLOWS 1710N - 85-90% DEAD IN SOME AREAS Hannel Decies 14RIS, MALOSONA LAURINA, EA, CARDUNS PTENO CEPHACUS
IN POOR CONDI Vegetation Adjacent to Ch Dominant / Characteristic Sp BACCIJARIS RLVC AVENA BARBAT.	TUPUMP UNPERSTURY INFORTS - WILLOWS 1710N - 85-90% PFAD IN SOME APFAS Hannel Decies UARIS, MALOSOMA LAURIMA, EA, CARDUNS PTENO CEPHARUS IELITENSIS
IN POOR CONDI Vegetation Adjacent to Ch Dominant / Characteristic Sp BACCIJARIS RLUG ANEMA BARBAT CENTAUREA M SMALL QUERCO Notes: UERY WEAT DRANAGE CHA TO THE CO	TUPUMP UNPERSTURY INFORTS - WILLOWS 1710N - 85-90% PFAD IN SOME APFAS Hannel Decies UARIS, MALOSOMA LAURIMA, EA, CARDUNS PTENO CEPHARUS IELITENSIS
IN POOR CONPI Vegetation Adjacent to Ch Dominant / Characteristic Sp BACCIJAPIS PILLO ANEMA BARBAT CENTAUREA M SMALL QUERCO Notes: <u>VERY WEAR</u> DRANAGE CHA TE THE CO NO REFINED	T VPUMP UNDERSTOPT INTERBS - WILLOWS 1710N - 85-90% DEAD IN SOME AREAS HARIS, MALOSONA LANRINA, 54, CARDUNS PICNO CEPHACUS 16CITENSIS US AGRIFOLIA MUS AGRIFOLIA MUS FREMESSED I INTERMITTENT ANNEL FROM CUVERT OUTEAUL DOWN MICRETE IMPOUNDMENT - MOSTLY D CHANNEL
IN POOR CONVERTS	TUPUND UNDERSTRATISTERS - WILLOWS 1700 - 85-90% DEAD IN SOME AREAS HARIS, MALOSONA LAURINA, CA, CARDUNS PTONO CEPHARUS IELITENSIS US AGRIFOLIA WWY EXPRESSED I INTERMITTENT ANNEL FROM CUVERT OUTFALL DOWN WCRETE IMPOUNDMENT - MOSTLY

SACVARID REGION DATA SHEET

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oservers: <u>Russell Huddleston</u> an	d Steve Long	DOWN STREAM mole Point CONCRETE IMPOUND.
PS Location: Ave position:	34° 13' 58.906	1180 41' 40.784"
eomorphic Feature		
River	🗋 Lake	Swale
Stream	D Pond	Erosional Channel
Canal	Impoundment	Gully
Irrigation Channel	D Playa	Depressional Basin
Drainage Channel	Constructed Basin	Rock Basin
Excavated Ditch	Unvegetatted Depression	Other:
Apparent Hydrologic Regime		
Perennial	Standing Water (Depth:)
Intermittent	Flowing Water (Depth_)
Ephemeral	Dry at time of the survey	
ndictors	Channel adjacent to she	
indication of recent precipitation	with steep side	ditch flowing into feature
presence of hydrophytic vegetation	Natural line, stain or mineral (salt) deposit	Dated picture / account showing / referring to identifiable features
Presence of hydric soil with or without hydrophytic vegetation	Litter, debris and or clay deposits	Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map)
Absence of vegetation or interruptic of upland vegetation	on 🔲 Algae or alga mat	Other (Specify)
Notes: SHOWN AS A BO	WE LIVE ON TH	E USGS tope MAP
FOR THE CALABASA	s anadj www (ps	SC) FORESTED /SCRUB
WERLAND AND NHS	D STRAAM	
		IN THIS AREA

Channel Width	NO REFINE	D BED / BANK
Channel Depth	CHANNEL	PRESENT
High-Water Line Width		
High Water Line Depth		
Channel Substrate (check all th	nat apply)	
Sand	Cobble	Gilt / Clay
Gravel	Rock	Other
Vegetation Characteristics of	f Channel or Basin	
Vegetated Channel or Basin?	Yes DIN	lo
Dominant / Characteristic Spec	ties	
	YOUT THE AREA	IS FILLED WITH
DEAD / FALLE SALLY LASIOLERI ALMOST NO R	HOUT THE ARGA N WOODY DEBA S - BURNED REGENERATION	1N ZOOS FIRE
DEAD / FALLE SALLY LASIORERI	HOUT THE ARGA NOOPY REBA S - BURNED REGENERATION PTONO CEPHACIS	1N ZOOS FIRE
DEAD / FALLE SALLY LASIORER ALMOST NO R DENSE CARDUNS P	HOUT THE ARGA NOOPY REBA S - BURNED REGENERATION PTONO CEPHACIS Inel	1N ZOOS FIRE
DEAD / FALLE SALLY LASIOBER ALMOST NO R DENSE CARDUNS P Vegetation Adjacent to Char	HOUT THE AREA NOOPY DEBA S - BURNED REGENERATION Preno CEPHACIS Inel Sies	1N ZOOS FIRE
DEAD / FALLE SALLY LASIOBER ALMOST NO R DEASE CAR DUAS A Vegetation Adjacent to Char Dominant / Characteristic Spec	HOUT THE ARGA NOOPY DEBA S - BURNED RECENENTION Preno CEPHACIS Inel Sies 4P15	1N ZOOS FIRE
DEAD / FALLE SALLY LASIOBER ALMOST NO R DEASE CAR DUAS P Vegetation Adjacent to Char Dominant / Characteristic Spec BACCHARIS PILMU	HOUT THE AREA N MOOPY DEBA S - BURNED REGENERATION PTONO CEPHACIS INA	PAS - APPEARS MOSTRY IN ZOOS FIRE IN "CITATINEL"
DEAD / FALLE SALLY LASIONER AZMOST NO R DENSE CAR DUNS A Vegetation Adjacent to Char Dominant / Characteristic Spec BACCHARIS PILNU MALOSOMA LANT QUERCUS AGRIF	HOUT THE ARGA NOOPY DEBA S - BURNED REGENERATION PTONO CEPHACIS INA SIGNA (FEN SM	PAS - APPEARS MOSTRY IN ZOOS FIRE IN "CITATINEL"

Notes: FOULD NOT ACCESS THAS SECTION DUE TO ABUNPANT FALLEN WOODY DEBRIS -NO APPARENT BEP/BANK FEATURE AND NO EVIDENCE OF RECENT FLOWS THROUGH THIS SECTION - DOWN STREAM TO EARTHEN PAM STRUCTURE

oservers: <u>Russell Huddleston and</u> ature Name <u>BELL CREE</u>	K - ALEA Sam	ple Point EARTHEN DAM
PS Location: 34° 13' 58		43.905"
		12. 100
eomorphic Feature	1	
River	🗋 Lake	Swale
Stream	D Pond	Erosional Channel
Canal	M Impoundment	Gully
Irrigation Channel	🗋 Playa	Depressional Basin
Drainage Channel	Constructed Basin	Rock Basin
Excavated Ditch	Unvegetatted Depression	• Other:
Apparent Hydrologic Regime		
Perennial	Standing Water (Depth:)
Intermittent	Flowing Water (Depth_)
X Ephemeral	Dry at time of the survey	
	/	
ndictors		
	Channel adjacent to shelf	Natural / irrigation / manmade
Standing or flowing water with no indication of recent precipitation	with steep side	ditch flowing into feature
presence of hydrophytic vegetation	Natural line, stain or mineral (salt) deposit	Dated picture / account showing / referring to identifiable features
Presence of hydric soil with or without hydrophytic vegetation	Litter, debris and or clay deposits	Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map)
Absence of vegetation or interruption of upland vegetation	Algae or alga mat	Other (Specify)
Notes: SHOWN AS A BLU	E LINE ON THE	E USSS TOPO MAP
FOR THE CALABASA		
STERUB WETCAND;		, por carelel
	TTV SIMPATI	

NO DEFINE	D BED-BANK
FEATURE	IN THIS AREA
DOWN STRE	AM OF FARTHEN
PAM	
at apply)	
Cobble	Silt / Clay
Rock	Other
	and the second s
	FEATURE Down STRE PAM at apply) Cobble

Vegetated Channel or Basin? Yes No Dominant / Characteristic Species BACCHARIS SALICIFOLIA TOXICOPENDREN PIVERSILOBUM CARPUUS PTCNOCEPHALUS

Vegetation Adjacent to Channel

BRASSICA NIGRA, CENTAURY,	A MELATENSIS, BROMUS SPP.
ARTEMESIA CALIFORNICA	
ERIGGONUM FASCICULATUM	
BACCHAPIS PILULAPIS	SPARSE, SCATTERED
MARACOTHAMANUS FASCICULA	rus SHENBS
MACOSOMA LANRINA	
lotes:	

DOWN STREAM NO BEFINED CHANNEL -NO BED BANK FLAT TOPOGRAPHY BETWEEN SOPES - NO EVIDENCE OF RECENT FLOW - VEGETATION BACHARIS PILVARIS, BACHARIS & SALICIFOLIA, DEAD SAME LASIOLERIS - ABUNDANT CAP DUIS PRNOCEPHAUNS, TOXICO DENDEON PIVERSICOBONI AND BRASSILA NIGRA

* NO CULVERT WAS LOCATED AT THE WEST ENP NEAR THE READ

bservers: <u>Russell Huddleston and</u>	Steve Long	04103
eature Name <u>BELL</u> CREE	K - ALFA	Sample Point WEST, OF CAP
PS Location: Ave position:	34° 13' 58.550	118° 41' 57,066" Por
eomorphic Feature		1
River	🗋 Lake	Swale
Stream	D Pond	Erosional Channel
Canal	Impoundment	Gully
Irrigation Channel	D Playa	Depressional Basin
Drainage Channel	Constructed Basin	Rock Basin
Excavated Ditch	Unvegetatted Depression	Other:
pparent Hydrologic Regime		
Perennial	Standing Water (Dep	th:)
Intermittent	Flowing Water (Dept)	h)
Ephemeral	Dry at time of the surv	ey
 Andictors Standing or flowing water with no indication of recent precipitation presence of hydrophytic vegetation Presence of hydric soil with or without hydrophytic vegetation 	 Channel adjacent to s with steep side Natural line, stain or mineral (salt) deposit Litter, debris and or cl deposits 	 ditch flowing into feature Dated picture / account showing / referring to identifiable features
Absence of vegetation or interruption	Algae or alga mat	stippled blue area on map)
of upland vegetation		
Notes: BLUE LINE ON I CALABASAS QUA FEATURE	USES TOPO MA. D; NHP STR	FOR THE EAM; NO NOVI

Channel Width	NO DEF	TTED CHANNEL
Channel Depth	OR BET	D- BANK IN THIS
High Water Line Width	ARE	4
High Water Line Depth		
Channel Substrate (check all that	at apply)	
Sand	Cobble	G Silt / Clay
Gravel	Rock	Other
Vegetation Characteristics of Vegetated Channel or Basin?		No
		No
Dominant / Characteristic Speci	es	
BACCHARIS SALIC	IFOLIA	
CARDUUS PYCNO	CEPHAMES	
BACCHARIS PILL	UMPIS	
TOX CO DENDRON	DIVERSILOBUT	7
PHACACEIA RA	MARISSIMA	

Vegetation Adjacent to Channel

Dominant / Characteristic Species

Notes: TERMINATES AT SO INCH DIAM CMP TUST BEFORE SPA AREA - (UNDER READ)

UPSTRAAM OF CULVERT -SOME SALLY LASIOLEPIS ARTEMESIA DOUBLASIATIA WITH MALACOTHAMNUS FASCICULATUS, BACCHARIS SAUCIFULIA - INTERMITTENT 2 FOOT WIRE 2-3 INCH DEEP EROSIONAL CHANNEL BUT NO OFWIM OR CONTINUOUS BED , BANK FRATURE IN TITIS AREA.

ARID REGION	S - WETLAN	TION DAT	TA SHEFT

bservers: Russell Huddleston and	I Stev	ve Long		Date: 1/5/2012 BC
eature Name <u>BELL</u> CREE	100	- SPA San	nple	Point $(Concrete 4 rep)$
PS Location: Ave posmon :		1- 01.651	110	ye cribing
		01-469 118	• 4	12' 03.118"
C River		Lake		Swale
X Stream		Pond		Erosional Channel
Canal		Impoundment		Gully
Irrigation Channel		Playa		Depressional Basin
Drainage Channel		Constructed Basin		Rock Basin
Excavated Ditch		Unvegetatted Depression		Other:
Apparent Hydrologic Regime				
Perennial		Standing Water (Depth:)
Intermittent		Flowing Water (Depth)
Ephemeral	X	Dry at time of the survey		
Indictors				
Standing or flowing water with no indication of recent precipitation		Channel adjacent to shelf with steep side		Natural / irrigation / manmade / ditch flowing into feature
presence of hydrophytic vegetation		Natural line, stain or mineral (salt) deposit		Dated picture / account showing / referring to identifiable features
Presence of hydric soil with or without hydrophytic vegetation		Litter, debris and or clay deposits	ø	Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map)
Absence of vegetation or interruption of upland vegetation		Algae or alga mat		Other (Specify)
Notes: SHOWN AS A BU	E	LINE ON THE	uso	is Tupa MAP FOR
THE CALABASAS				
PART OF THIS F	FA	TURE SHOWN.	AS	NWI - (PFOA)
and the second se		WERDAND		

Channel Width	5.7FT - 10.8 f	T		
Channel Depth	25 INCITES			
High Water Line Width	1-3 FEET			
High Water Line Depth	2 Incites			
Channel Substrate (check all the	at apply)			
Sand	Cobble	Silt / Clay		
Gravel	Rock KOther concern			

Vegetation Characteristics of Channel or Basin

Vegetated Channel or Basin?	🛛 Yes	No No	
Dominant / Characteristic Species	6		
			-
			-
			_

Vegetation Adjacent to Channel

Dominant / Characteristic Species MALOSOMA LAMPINA, EPIODICTYON CRASSIFOLIUM BACCHARIS PILVLARIS, BACCHARIS SAUCIECUIA TERICO DENDREN PIVERSILCBUM, RIBES MALVACEUM, ADENOSTEMA FASCICULATUM, CEAPOTHUS CRASSIFOLIUS APPRex Notes: CONCRETE CHANNEL 100 FEET ENTS DOWN STREAM OF THIS LOCATION ÷

bservers: <u>Russell Huddleston and</u>		
eature Name <u>BELL</u> CRE	Erc - SPA	Sample PointBC -
GPS Location: 34° 14' 00	. 432 118° 4	2° 07.570
eomorphic Feature	A.C	
River	🖵 Lake	Swale
Stream	D Pond	Erosional Channel
Canal	Impoundment	Gully
Irrigation Channel	D Playa	Depressional Basin
Drainage Channel	Constructed Basin	Rock Basin
Excavated Ditch	Unvegetatted Depression	Other:
Apparent Hydrologic Regime		
Perennial	Standing Water (De	pth:)
Intermittent	Generation Flowing Water (Dep	pth)
🖄 Ephemeral	Dry at time of the su	rvey
Indictors		
Standing or flowing water with no indication of recent precipitation	Channel adjacent to with steep side	shelf D Natural / irrigation / manmade ditch flowing into feature
presence of hydrophytic vegetation	Natural line, stain or mineral (salt) deposition	
Presence of hydric soil with or without hydrophytic vegetation	Litter, debris and or deposits	clay Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map)
Absence of vegetation or interruption of upland vegetation		Other (Specify)
Notes: Stown AS BLUE C.	INE ON US65	TOPO MAP FOR THE
CALABASAS QUAD, SURUB WERLAND	NHD STREAM,	TOPO MAP FOR THE WWI - (PFCA) - FORESTER
AND A ALAN A		

Channel Width	6 FT	
Channel Depth	ZFT	
High Water Line Width	2.7 FT	
High Water Line Depth	4 INCITES	
Channel Substrate (check a		
Sand	Cobble	🔲 Silt / Clay
Gravel	Rock	Other
Vegetation Characteristic		oppore
Vegetated Channel or Basi		No
Dominant / Characteristic S	species	
CARDUNS PYCNO	CEPHARUS SEEPINGS	2 LESS THAN 1% TOTAL
POLYPEGEN MON	SPELIENSIS	2 LESS THAN 1% TUTAL 5 CONER
Vegetation Adjacent to C	thannel	
Dominant / Characteristic S	pecies	

BACCHARIS SALICIFOLIA, BACCHARIS ALULARIS

DEAD SALIX SP - NO REDENTH - BURNED IN ZOOS FIRE

MALACOTHAMMUS FASCICULATUS

CARDUUS PYCNOCEPHALUS, BRASSICA NIGRA

Notes: DOWN STREAM OF CONCRETE LINED DITENT - CONTINUES GENERALLY SOUTH INTO SILVERNALE POND OFF MASA PROPERTY

bservers: <u>Russell Huddleston and</u>				
eature Name <u>BELL CREEP</u>	E	-CPFF Sam	ple l	Point <u>BC</u> -
GPS Location: 39° 13' 41.	161	" 118° 42'	25	. 275"
eomorphic Feature				
River		Lake		Swale
Stream		Pond		Erosional Channel
Canal		Impoundment		Gully
Irrigation Channel		Playa		Depressional Basin
Drainage Channel		Constructed Basin		Rock Basin
Excavated Ditch	۵	Unvegetatted Depression		Other:
Apparent Hydrologic Regime				
Perennial		Standing Water (Depth:		_)
		Flowing Water (Depth)
🗹 Ephemeral	Ø	Dry at time of the survey		
Indictors				
Standing or flowing water with no indication of recent precipitation		Channel adjacent to shelf with steep side		Natural / irrigation / manmade ditch flowing into feature
presence of hydrophytic vegetation		Natural line, stain or mineral (salt) deposit		Dated picture / account showing / referring to identifiable features
Presence of hydric soil with or without hydrophytic vegetation		Litter, debris and or clay deposits	Ø	Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map)
Absence of vegetation or interruption of upland vegetation		Algae or alga mat		Other (Specify)
Notes: SHOWN AS A B	w	E LINE STREAM	01	N USOS TOPO
MAP FOR THE CAR	AT	BASAS QUAD.		tesa sitema As
A NHP STREAM		NO NUI MA	PPA	D FRANCES
THIS APEA				

Channel Width	SFT	
Channel Depth	IFT	
High Water Line Width	30 IN CITES	
High Water Line Depth	1-2 INCHES	
Channel Substrate (check	all that apply)	
Sand	Cobble	Silt / Clay
Gravel	Rock	Other
Vegetation Characterist	ics of Channel or Basin	MORE COBBLE DOWN STREAM
Vegetated Channel or Bas	in? 🛛 Yes 🔲 N	lo
Dominant / Characteristic	Species	
CARDUUS PYCA	DOCEPHAUS)	
BRASSICA NIC	TA CESS	THAN 2% TOTAL
		THAN 2% TOTAL

Vegetation Adjacent to Channel

Dominant / Characteristic Species

 BACCHARIS SALICIFOULA, APEROSTEMA FASCICULATA,

 ERIODICTYCH CRASSIFECTIUM, CERNETAMS SP., MALOSOMA LAMEINA

 Some avereus Aberfaut - Saux LASIMERIS SARINGS

 RHALEMA RAMOSISSIMA, BRASSICA NIGRA

 Notes:

ARID REGIONS - WETLAND DELINEATION DATA SHEET

bservers: Russell Huddleston and				
eature Name <u>BELL</u> CRE	EH	- CDFF Sam	ple I	Point BC-8
CPS Location: 34° 13′ 39	. 4	69" -118° 42	2' 2	25.316*
eomorphic Feature				
River		Lake		Swale
Stream		Pond		Erosional Channel
Canal		Impoundment		Gully
Irrigation Channel		Playa		Depressional Basin
Drainage Channel		Constructed Basin		Rock Basin
Excavated Ditch	۵	Unvegetatted Depression		Other:
Apparent Hydrologic Regime				
Perennial		Standing Water (Depth:)
Intermittent		Flowing Water (Depth)
Y Ephemeral	X	Dry at time of the survey		
Indictors				
Standing or flowing water with no indication of recent precipitation		Channel adjacent to shelf with steep side	۵	Natural / irrigation / manmade ditch flowing into feature
presence of hydrophytic vegetation		Natural line, stain or mineral (salt) deposit		Dated picture / account showing / referring to identifiable features
Presence of hydric soil with or without hydrophytic vegetation		Litter, debris and or clay deposits	R	Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map)
Absence of vegetation or interruption of upland vegetation		Algae or alga mat		Other (Specify)
Notes: SHEWN AS A BL	UE	LINE ON THE	ε.	USGS TOPO MAP
FOR THE CALABASA	sa	ENAD; NHD	57	REAM
NO NUI MAPPED				
and the second se				

Channel Width	4.8 FT					
Channel Depth	8-18 inates					
High Water Line Width	2.1 FT					
High Water Line Depth	3 INCITES					
Channel Substrate (check all	that apply)					
Sand	Cobble	Gilt / Clay				
Gravel	Rock	Other				
SATP / GRAVEL Vegetation Characteristics	SUBSTRATE W SP of Channel or Basin	ARSE COBBLE				
Vegetated Channel or Basin?	the second s	No				
Dominant / Characteristic Spo	ecies					
BRASSICA NIG	24 2.	LESS THAN 5% TOTAL				
BRASSICA NIG	NOCEPHALUS)	COVER				
4						
Vacatation Adjacent to Ch						

Vegetation Adjacent to Channel

Dominant / Characteristic Species

ERIOPICT	Tor CRA	ssiferium,	BACCITA	RIS SAL	ICIFOLIA,	1.1.1
MALACOTH	AMNUS	FASEICULA	trus, c,	5AN OTH	AS SP.	
BRASSICA	NIGRA,	PHACELIA	RAMOSI	SSIMA,	BACCHARIS	PILLIAPIS
SILYBUM	MARIAN	um - oeu	SSIONAL	SAUX	LASICE PI,	5 - 64" DB.

Notes:

SANDY CITANNEL DOWN STREAM - WELL DEFINED AREA WITH DEASE ARTEMESIA FLOWS THROUGH DOUGLASIANA WITH SCATTERED BRASSICA NICRA - SURROUNDED BY BACCHARIS PILUMRIS, TOXICOPENDRON DIVERSILOBUM - OCCASSIONAL QUERCUS AGRIFOLIA

-SEGMENT NORTH OR REB POND DENSE TOXICOPENDEN NO ACCESS TO THE PRAINAGE

bservers: <u>Russell Huddleston and</u>	d Steve Long	
eature Name <u>BELL</u> CREE	EK SW	Sample Point BC-9
PS Location: <u>34° 13′</u> 33.	868" 118° 42	23.679"
eomorphic Feature		
River	🗋 Lake	Swale
Stream	D Pond	Erosional Channel
Canal	Impoundment	Gully
Irrigation Channel	🛛 Playa	Depressional Basin
Drainage Channel	Constructed Basin	Rock Basin
Excavated Ditch	Unvegetatted Depression	Other:
pparent Hydrologic Regime	Standing Water (Dep	th:)
Intermittent	Flowing Water (Dept)	
Ephemeral HYDROLOG7 MANAGED	Dry at time of the surv - PUMPING TO	vey Silvernace Pond
ndictors		
Standing or flowing water with no indication of recent precipitation	Channel adjacent to s with steep side	shelf D Natural / irrigation / manmade ditch flowing into feature
presence of hydrophytic vegetation	Natural line, stain or mineral (salt) deposit	Dated picture / account showing / referring to identifiable features
Presence of hydric soil with or without hydrophytic vegetation	Litter, debris and or cl deposits	lay Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map)
Absence of vegetation or interruption of upland vegetation	n 📮 Algae or alga mat	Other (Specify)
Notes: - SHOWN AS BLUE		
	NWI (PFOA) FOR	LESTED /SCRUB WERTHIND
CALABASAS QUAD;		

Channel Width	10 FT
Channel Depth	14 INCITES
High Water Line Width un Fun	
High Water Line Depth	4 INCITES
Channel Substrate (check all that	
Sand	Cobble 🔲 Silt / Clay
S Gravel	1
Gravei	E SUBSTRATE W/ SOME LARGE SAMPSTONE BOMPE
SAND - GRAVEL - COBBL	
Vegetation Characteristics of C	Channel or Basin
Vegetated Channel or Basin?	Yes X No
Dominant / Characteristic Species	5
Vegetation Adjacent to Channe	21
Vegetation Adjacent to Channe Dominant / Characteristic Species	
Dominant / Characteristic Species	
	s
Dominant / Characteristic Species	5 FCL14
Dominant / Characteristic Species BACCHARIS SALICIA BACCHARIS PILULAR	s FOLIA PAS
Dominant / Characteristic Species BACCHARIS SACICIA BACCHARIS PILULAR TOXICOPENPRON 1	S FOLIA MS DIVERSILOBUM, QUERCUS AGRIFOLIA
Dominant / Characteristic Species BACCHARIS SACICIA BACCHARIS PILULAR TOXICOPENPRON 1	s FOLIA PAS
Dominant / Characteristic Species BACCHARIS SALICIA BACCHARIS PILULAR TOXICOPENPRON 1 ERICDICTYON (RA.	S FOLIA MS DIVERSILOBUM, QUERCUS AGRIFOLIA
Dominant / Characteristic Species BACCHARIS SALICIA BACCHARIS PILULAR TOXICODENPRON ERICDICTION CRA. PIPTATHERUM MIL	S S S S S S S S S S S S S S S S S S S
Dominant / Characteristic Species BACCHARIS SALICIA BACCHARIS PILULAR TOXICOPENPRON ERICDICTYON CRA PIPTATHERUM MIL RIBES MALVAC	S S S S S S S S S S S S S S S S S S S
Dominant / Characteristic Species BACCHARIS SALICIA BACCHARIS PILULAR TOXICOPENPRON ERICDICTION CRA. PIPTATHERUM MIN RIBES MALVAG Notes: DENSE BACCH	S S S S S S S S S S S S S S
Dominant / Characteristic Species BACCHARIS SALICIA BACCHARIS PILULATE TOXICODENPRON ERICDICTYON CRA. PIPTATHERUM MIN RIBES MALVAG Notes: DENSE BACCH	S FOLIA TAS DIVERSILOBUM, QUERCUS AGRIFOLIA SSIFCLIUM, MALOSOMA LAURINA LACEUM, PHALEUA RAMOSISSIMA CEUM
Dominant / Characteristic Species BACCHARIS SALICIA BACCHARIS PILULAR TOXICODENPRON ERICDICTYON CRA. PIPTATHERUM MIN RIBES MALVAG Notes: THE CHANNEL	S S S S S S S S S S S S S S

bservers: Russell Huddleston and	Steve Long	
eature Name <u>BELL</u> CREE		Sample Point
$\frac{1}{34^{\circ} 13^{\prime} 32}$		42" 25. 084 BC-
SPS Location: 2770	101 110	
Geomorphic Feature		1
C River	🗅 Lake	C Swale
X Stream	D Pond	Erosional Channel
Canal	Impoundment	Gully
Irrigation Channel	🗋 Playa	Depressional Basin
Drainage Channel	Constructed Basin	Rock Basin
Excavated Ditch	Unvegetatted Depression	Other:
Apparent Hydrologic Regime		
Perennial	Standing Water (Dept	h:)
- Internittent	Flowing water (Deptr	n)
Ephemeral	X Dry at time of the surve	
Ephemeral MANAGED HMDROLOGY	X Dry at time of the surve	ey
Ephemeral MANAGED HYDROLOGY	X Dry at time of the surve	ey SILVERMALE POND
Ephemeral MANAGED HT DROLDGY Indictors Standing or flowing water with no	 Dry at time of the surve PumPinG into Channel adjacent to sl 	ey <i>SILVERNALE Port</i> D helf Natural / irrigation / manmade /
Ephemeral MANAGED HT DROLDGY Indictors Standing or flowing water with no indication of recent precipitation	 Dry at time of the surve PumPinG into Channel adjacent to sl with steep side Natural line, stain or 	ey SILVERMANE Por D helf Natural / irrigation / manmade / ditch flowing into feature Dated picture / account showing / referring to identifiable features
Ephemeral MANAGED HYDROLOGY Indictors Standing or flowing water with no indication of recent precipitation presence of hydrophytic vegetation Presence of hydric soil with or	 Dry at time of the survery - PumPine inverse Channel adjacent to sl with steep side Natural line, stain or mineral (salt) deposit Litter, debris and or cladeposits 	ey <i>SILVERMANE Porr</i> ⊅ helf □ Natural / irrigation / manmade / ditch flowing into feature □ Dated picture / account showing / referring to identifiable features ay Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or
Ephemeral MANAGED HYDROLOGY Indictors Standing or flowing water with no indication of recent precipitation presence of hydrophytic vegetation Presence of hydric soil with or without hydrophytic vegetation Absence of vegetation or interruption of upland vegetation	 Dry at time of the surve <i>PumPING</i> INTE Channel adjacent to sl with steep side Natural line, stain or mineral (salt) deposit Litter, debris and or cla deposits Algae or alga mat 	 <i>SILVERMALE Por D</i> helf Natural / irrigation / manmade / ditch flowing into feature Dated picture / account showing / referring to identifiable features ay Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map)
Ephemeral MANAGED HYDROLOGY Indictors Standing or flowing water with no indication of recent precipitation presence of hydrophytic vegetation Presence of hydric soil with or without hydrophytic vegetation Absence of vegetation or interruption of upland vegetation	 Dry at time of the surve PUMPING INFO Channel adjacent to sl with steep side Natural line, stain or mineral (salt) deposit Litter, debris and or cla deposits Algae or alga mat UNE LINE STREE 	ey SILVERMALE POND helf Natural / irrigation / manmade / ditch flowing into feature Dated picture / account showing / referring to identifiable features ay Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map) Other (Specify) AM CN THE MS65
Ephemeral MANAGED HYDROLOGY Indictors Standing or flowing water with no indication of recent precipitation presence of hydrophytic vegetation Presence of hydric soil with or without hydrophytic vegetation Absence of vegetation or interruption of upland vegetation Notes: SHOWN AS A BI	 Dry at time of the survery - PUMPING INTE Channel adjacent to shwith steep side Natural line, stain or mineral (salt) deposit Litter, debris and or cladeposits Algae or alga mat E LINE STREATE - NWI (PEA) 	ey SILVERMALE POND helf Natural / irrigation / manmade / ditch flowing into feature Dated picture / account showing / referring to identifiable features ay Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map) Other (Specify) AM CN THE MS65
Ephemeral Indictors Indictors Standing or flowing water with no indication of recent precipitation presence of hydrophytic vegetation Presence of hydric soil with or without hydrophytic vegetation Absence of vegetation or interruption of upland vegetation Notes: SHOWN AS A BICALABASAS TOPO MA	 Dry at time of the surve - PumPined import Channel adjacent to sl with steep side Natural line, stain or mineral (salt) deposit Litter, debris and or cla deposits Litter, debris and or cla deposits Algae or alga mat ME LIME STREAM AFREAM 	ey SILVERMANE POND helf Natural / irrigation / manmade / ditch flowing into feature Dated picture / account showing / referring to identifiable features ay Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map) Other (Specify) AM ON THE US6S) FORESTED / SCRUB

8

Channel Width	10.5 FT	
Channel Depth	IFT	
High Water Line Width Com	5.75 FT	
High Water Line Depth Com	2"	
Channel Substrate (check all that	apply)	
Sand	Cobble	Silt / Clay
Sravel	Rock	B- Other Baupper
COBBLE / GRAVEL		THE BOULDERS
Vegetated Channel or Basin?		
	Yes X	No
Dominant / Characteristic Species		
Vegetation Adjacent to Channe		
Dominant / Characteristic Species		
QUERCUS AGRIFOLI	A	
BACCITARIS PILULAR	IS, KEUKIELLA	(CRP, FOLIA
MALOSOMA LAURINA.	RAICHARIS S	CORPIFOLIA, AMILIFOLIA, CEANOTHUS SP.
PHACALEIA RAM		XICOPENPEON DIVERSILCBUM,
	101001 PV4	
	EET DOWNSTRE	AM OF THIS POINT
		BY LARGE SANDSTONE
	the second s	EXICODENDREN - COULD
NOT ACCESS	THIS SECTION	ON OF THE CREEK
-WATER FLOWS AS	ENNO / UNDE	& BOULDERS THIS

eature Name BELL CREE	e sw	_Sample PointBC -
PS Location: 34° 13' 30	874" 118°	42' 28.210"
eomorphic Feature		
River	🖵 Lake	Swale
Stream	D Pond	Erosional Channel
Canal	Impoundment	Gully
Irrigation Channel	🛛 Playa	Depressional Basin
Drainage Channel	Constructed Basin	Rock Basin
Excavated Ditch	Unvegetatted Depression	Other:
pparent Hydrologic Regime		
Perennial	Standing Water (De	epth:)
Intermittent	Flowing Water (De	epth)
Ephemeral	Dry at time of the su	Irvey
MANACED My PROLOG	T-PUMPING TO	SILVERNACE POND
ndictors		
Standing or flowing water with no indication of recent precipitation	Channel adjacent to with steep side	o shelf D Natural / irrigation / manmade ditch flowing into feature
presence of hydrophytic vegetation	Natural line, stain o mineral (salt) depos	
Presence of hydric soil with or without hydrophytic vegetation	Litter, debris and or deposits	clay Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map)
Absence of vegetation or interruption of upland vegetation	Algae or alga mat	Other (Specify)
		SCS TOPO MAP FOR
Later and the second of the	AD; NWI (P)	FOA) FORESTED /SCRUB
THE CALABASAS GA		1 1
WETLAND; NHD		

Channel Width	9.7 FT	
Channel Depth	18 INCHES	
High Water Line Width		
Hi gh Water Line D epth Le	W FLOW SINCHES	
Channel Substrate (check	c all that apply)	
Sand	Cobble	Silt / Clay
Gravel	Rock	Dother BOULDER

Vegetation Characteristics of Channel or Basin

Vegetated Channel or Basin?	Yes	No No			
Dominant / Characteristic Species					
ARTEMESIA DOUGLAS	SIANA	7			
FUMEX CRISPUS		(LESS	THAN	5%	TOTAL
APTATHERUM MILA	CEUM	(co	VER		
CARDUUS PYCNOCE	PHACUS)	2 C		

Vegetation Adjacent to Channel

Dominant / Characteristic Species

3.

TOXICODENPRON DIVERSILOBUM QUERCUS AGRIFOLIA SALLY LASICLEPIS (FALLEN TREE W/ SMALL RESPRONTING BRANCITES)

MIMUUNS AURANTIACUS, ARTEMESIA DOUGLASIANA, PIPTATHERUM MILACEUM, RIBES MALVACEUM PHACELLA RAMOSISSIMA

Notes:

eature Name <u>BELL</u> CREE	ĸ	Sw San	ple Point	57-4 BC-1
SPS Location: 34° 13' 28	5.9	89" 118° 42'	28.62	8"
eomorphic Feature				
River		Lake	Swale	
Stream		Pond	Erosio	nal Channel
Canal		Impoundment	Gully	
Irrigation Channel		Playa	Depre:	ssional Basin
Drainage Channel	0	Constructed Basin	Rock E	Basin
Excavated Ditch		Unvegetatted Depression	Other:	
Apparent Hydrologic Regime				
Perennial		Standing Water (Depth:		_)
Intermittent Ephemeral	A	Flowing Water (Depth Dry at time of the survey		
Ephemeral MANACED MYDROLOC	A	Dry at time of the survey		_) NEFNALE POND
Tobomoral	A	Dry at time of the survey	ATO SILI	_) <i>IEF NACE PowD</i> al / irrigation / manmade lowing into feature
Ephemeral MANAGED MADELOC Indictors Standing or flowing water with no	7	Dry at time of the survey	Natura ditch f	al / irrigation / manmade
Ephemeral MANAGED MYDROLOG Indictors Standing or flowing water with no indication of recent precipitation	2	Dry at time of the survey - PUMPING II Channel adjacent to shelf with steep side Natural line, stain or	Natura ditch f Dated showi identif Wetla (prese blue li	al / irrigation / manmade lowing into feature picture / account ng / referring to
Ephemeral MANA CED MYDROLOC Indictors Standing or flowing water with no indication of recent precipitation presence of hydrophytic vegetation Presence of hydric soil with or	7	Dry at time of the survey PUMPING Channel adjacent to shelf with steep side Natural line, stain or mineral (salt) deposit Litter, debris and or clay deposits	SILI Natura ditch f Dated showi identif Wetla (prese blue li stipple	al / irrigation / manmade lowing into feature picture / account ng / referring to iable features nd symbol on map ence of solid or dotted ne, solid, shaded or
Ephemeral MANAGED MYDROLOG Indictors Standing or flowing water with no indication of recent precipitation presence of hydrophytic vegetation Presence of hydric soil with or without hydrophytic vegetation Absence of vegetation or interruption of upland vegetation Notes:		Dry at time of the survey <u>PUMPING</u> Channel adjacent to shelf with steep side Natural line, stain or mineral (salt) deposit Litter, debris and or clay deposits Algae or alga mat 565 TOPO MAP	 SILI Natura ditch f Dated showi identif Wetla (prese blue li stipple Other 	al / irrigation / manmade lowing into feature picture / account ng / referring to fable features nd symbol on map ence of solid or dotted ne, solid, shaded or ed blue area on map) (Specify)
Ephemeral MANA CED MYDROLOC Indictors Standing or flowing water with no indication of recent precipitation presence of hydrophytic vegetation Presence of hydric soil with or without hydrophytic vegetation Absence of vegetation or interruption of upland vegetation		Dry at time of the survey <u>PUMPING</u> Channel adjacent to shelf with steep side Natural line, stain or mineral (salt) deposit Litter, debris and or clay deposits Algae or alga mat 565 TOPO MAP	 SILI Natura ditch f Dated showi identif Wetla (prese blue li stipple Other 	al / irrigation / manmade lowing into feature picture / account ng / referring to fable features nd symbol on map ence of solid or dotted ne, solid, shaded or ed blue area on map) (Specify)
Ephemeral MANAGED MYDROLOG Indictors Standing or flowing water with no indication of recent precipitation presence of hydrophytic vegetation Presence of hydric soil with or without hydrophytic vegetation Absence of vegetation or interruption of upland vegetation Notes:		Dry at time of the survey <u>PUMPING</u> Channel adjacent to shelf with steep side Natural line, stain or mineral (salt) deposit Litter, debris and or clay deposits Algae or alga mat 565 TOPO MAP	 SILI Natura ditch f Dated showi identif Wetla (prese blue li stipple Other 	al / irrigation / manmade lowing into feature picture / account ng / referring to fable features nd symbol on map ence of solid or dotted ne, solid, shaded or ed blue area on map) (Specify)

Channel Width	13.7 FT	
Channel Depth	SINCITES	
High Water Line Width	MA	
High-Water Line Depth-	MA	
Channel Substrate (check all	that apply)	
Sand	Cobble	Silt / Clay

Vegetation Characteristics of Channel or Basin

Vegetated Channel or Basin?	es 🔲 No
Dominant / Characteristic Species	
PIPTATHERUM MILACE	EVM N75% CONET
	WITTHIN THE CHANNEL
CARDUUS PYCNOCEPHA	ALUS 25% CONER

Vegetation Adjacent to Channel

Dominant / Characteristic Species

QUERCUS AGRIFOLIA TOXICODENTRON DIVERSILOBUM Vania B Notes:

boervero. massen i nauteston and	l Steve Long	
Feature Name BELL CREE	k SW S	ample Point BC~
GPS Location: 34° 13' Ze	5.801" 118°	42' 26.356"
Geomorphic Feature		
River	🗅 Lake	D Swale
Stream	D Pond	Erosional Channel
Canal	D Impoundment	Gully
Irrigation Channel	🖵 Playa	Depressional Basin
Drainage Channel	Constructed Basin	Rock Basin
Excavated Ditch	Unvegetatted Depression	Other:
Apparent Hydrologic Regime		
Perennial	Standing Water (Depth	
	Flowing Water (Depth)
Ephemeral	Dry at time of the surve	y currenter out
HIGHLY MANAGED -	poppino pojo	Stoppende Fort
Indictors		
Indictors Image: Standing or flowing water with no indication of recent precipitation	Channel adjacent to sh with steep side	elf D Natural / irrigation / manmade / ditch flowing into feature
Standing or flowing water with no		
Standing or flowing water with no indication of recent precipitation	with steep side Natural line, stain or	 ditch flowing into feature Dated picture / account showing / referring to identifiable features
 Standing or flowing water with no indication of recent precipitation presence of hydrophytic vegetation Presence of hydric soil with or 	 with steep side Natural line, stain or mineral (salt) deposit Litter, debris and or cladeposits 	 ditch flowing into feature Dated picture / account showing / referring to identifiable features Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or
 Standing or flowing water with no indication of recent precipitation presence of hydrophytic vegetation Presence of hydric soil with or without hydrophytic vegetation Absence of vegetation or interruption of upland vegetation 	 with steep side Natural line, stain or mineral (salt) deposit Litter, debris and or cladeposits Algae or alga mat 	 ditch flowing into feature Dated picture / account showing / referring to identifiable features Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map) Other (Specify)
 Standing or flowing water with no indication of recent precipitation presence of hydrophytic vegetation Presence of hydric soil with or without hydrophytic vegetation Absence of vegetation or interruption of upland vegetation Notes: SHOWN AS A BL 	 with steep side Natural line, stain or mineral (salt) deposit Litter, debris and or clar deposits Algae or alga mat Litter LINE on G 	 ditch flowing into feature Dated picture / account showing / referring to identifiable features Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map) Other (Specify)
 Standing or flowing water with no indication of recent precipitation presence of hydrophytic vegetation Presence of hydric soil with or without hydrophytic vegetation Absence of vegetation or interruption of upland vegetation Notes: SHOWN AS A BL 	 with steep side Natural line, stain or mineral (salt) deposit Litter, debris and or cladeposits Algae or alga mat <i>Litter Concellation of the concellation</i> Algae or alga mat <i>Litter Concellation of the concellation</i> 	 ditch flowing into feature Dated picture / account showing / referring to identifiable features Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map) Other (Specify)

9.4 FT	
10 INCITES	
Lew Rew S. 8 FT	
I INCITES	
ck all that apply)	
Cobble	Silt / Clay
Rock	Other
	10 INCIFES

Vegetation Characteristics of Channel or Basin

🗋 No
>
> LESS THAT 10% TOTAL
) COUER

Vegetation Adjacent to Channel

Dominant / Characteristic Species

Texicon	ENDRON D	NEFSILC	BUM,	PLATAN	US RACEMOSA
SYMPHO	RICARPOS	MOLLIS	5, 708	us ursinu	AS, GALUM SP.
RIBES	MALVACEL	IM, KEC	KIEL	A CORDI	FOLIA,
PHACEL	A RAMOSI.	ssima,	PIPTIS	THERUM	MILACEUM
Alle					
SALES .					

bservers: Russell Huddleston and	d Stev	re Long		
eature Name BELL CREEK C	DFF	-TRIBUTARY Sam	ple	PointBCT-
PS Location: 34° 13' 39.				
eomorphic Feature				
River		Lake		Swale
Stream		Pond		Erosional Channel
Canal		Impoundment		Gully
Irrigation Channel		Playa		Depressional Basin
Drainage Channel		Constructed Basin		Rock Basin
Excavated Ditch		Unvegetatted Depression		Other:
pparent Hydrologic Regime				
Perennial		Standing Water (Depth:)
Intermittent		Flowing Water (Depth)
Ephemeral	×	Dry at time of the survey		
ndictors				24
Standing or flowing water with no indication of recent precipitation	×	, Channel adjacent to shelf with steep side		Natural / irrigation / manmade ditch flowing into feature
presence of hydrophytic vegetation	Q	Natural line, stain or mineral (salt) deposit		Dated picture / account showing / referring to identifiable features
Presence of hydric soil with or without hydrophytic vegetation	Ø	Litter, debris and or clay deposits		Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map)
Absence of vegetation or interruption of upland vegetation		Algae or alga mat		Other (Specify)
Notes: TRIBUTARY CITAR				
SHOWN AS A BLUE L.				
-WELL DEFINED CH.	onn	EL WITH DA	EB)	us lines

Channel Width	4 FT	
Channel Depth	12- 24 IN CITE	S
High Water Line Width	2.3 FT	
High Water Line Depth	12 INCHES	
Channel Substrate (check all	that apply)	
Sand	Cobble	Silt / Clay
Gravel	Rock	Other
		Other
Vegetation Characteristics	or Channel or Basin	
Vegetated Channel or Basin?		

vegetated Channel or Basin?	Yes	No	
Dominant / Characteristic Specie	s		
A			

Vegetation Adjacent to Channel

Dominant / Characteristic Species
BACCHARIS PILLUARIS, CEANOTITUS SP.
RIBES MALVACEUM, ADENOSTEMA FASCICULATUM
CONFRENS AGRIFOLIA, CARDUUS PYCNOCEPHALUS
BRASSICA NICRA
Notes:

bservers: Russell Huddleston and	Stev	re Long		
eature Name FF PLF				
SPS Location: Ave: 34° 13	5'	35.238" 118"	4	2' 14.049"
eomorphic Feature				
River		Lake		Swale
Stream		Pond	X	Erosional Channel
Canal		Impoundment		Gully
Irrigation Channel		Playa		Depressional Basin
Drainage Channel		Constructed Basin		Rock Basin
Excavated Ditch		Unvegetatted Depression		Other:
Apparent Hydrologic Regime				
Perennial		Standing Water (Depth:)
Intermittent		Flowing Water (Depth)
A Ephemeral	ø	Dry at time of the survey		
Indictors				
Standing or flowing water with no indication of recent precipitation		Channel adjacent to shelf with steep side		Natural / irrigation / manmade ditch flowing into feature
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Absence of vegetation or interruption of upland vegetation		Algae or alga mat		Other (Specify)
Notes: NOT SHEWN AS	A	BUE UNE a	~	US65 topo,
NOT IN NHD, NO IN THIS AREA		WWI MAPPED	a	ETH-DS
		1 IF STOLAT	1	11-11-11/
- ERESIONAL CHAN.	NE	E ORPERIONU	/ /	Acherte

Channel Width	116 2 51	
Channel Depth	(1) Z-3 FT 12-14 INCIT	= 5
High Water Line Width	-	
High Water Line Depth	-	
Channel Substrate (check all	that apply)	
Sand	Cobble	Gilt / Clay
Gravel	Rock	Other
SANDY CHA	TANEL W/ SOME	(SPARIE) CORRIG
Vegetation Characteristics		
Vegetated Channel or Basin?		No
Dominant / Characteristic Spe	- 100 /- 1	10
Vegetation Adjacent to Cha	annel	
Vegetation Adjacent to Cha Dominant / Characteristic Spe		
Dominant / Characteristic Spe QUERCUS AGRI, RIBES MALVACEU	ECIES FOLIA TOXICO DE MI VENEGASIA O	
Dominant / Characteristic Spe QUERCUS AGRI, RIBES MALVACED ARTEMESIA CAD	Polies FOLLA TOFICO DA M, VENEGASIA O FORMICA, PILACE	LIA RAMOSISSIMA,
Dominant / Characteristic Spe QUERCUS AGRI, RIBES MALVACED ARTEMESIA CAD	ECIES FOLIA TOXICO DE MI VENEGASIA O	LIA RAMOSISSIMA,
Dominant / Characteristic Spe QUERCUS AGRI, RIBES MALVACED ARTEMESIA CAD	Acies FOLIA, TOFICO DE MI VENEGASIA FORMICA, PIHACE US, PIPTATHERO	LIA RAMOSISSIMA,
Dominant / Characteristic Spa QUERCUS AGRI, RIBES MALVACEU ARTEMESIA CAU BROMUS DUAT DIA CARDUUS PTCN	Acies FOLLA, TOXICO DA M, VENEGASIA FORMICA, PILACE US, PIPTATHERO GCEPHACUS	and the second se
Dominant / Characteristic Spe QUERCUS AGRI, RIBES MILVACEU ARTEMESIA CAU BROMUS DUMDIO CARDUNS PTCN Notes: UPSTREAM ROCUS - 1-2 FO	PART OF DRAMAG	E AT LARGE SAMPSTONE
Dominant / Characteristic Spe QUERCUS AGRI, RIBES MALVACEU ARTEMESIA CAU BROMUS DUBT DIA CARDUNS PTCN Notes: UPSTREATS ROCUS - 1-2 FO CIFATNEL (SA	PART OF DRAMAG	E AT LARGE SAMPSTONE AT LARGE SAMPSTONE H DEEP EROSIONAL CORBLES - BECOMES

FLOW CHANNEL INTO CONCRETE APRON AND 24" CULVERT- DRAINS INTO RZAPOND OVERBLOW AREA

2

)bservers: <u>Russell Huddleston and</u>	Steve Long	
Feature Name <u>COCA</u>	AINAGE Sa	mple Point <u># CD</u> -
GPS Location: 34° 13' 34	1.97Z 118° 4	1 51.677
Geomorphic Feature		
River	Lake	Swale
Stream	D Pond	Erosional Channel
Canal	Impoundment	Gully
Irrigation Channel	🛛 Playa	Depressional Basin
Drainage Channel	Constructed Basin	Rock Basin
Excavated Ditch	Unvegetatted Depression	Other:
Apparent Hydrologic Regime		
Perennial	Standing Water (Depth:)
Intermittent	Flowing Water (Depth_)
Ephemeral	Dry at time of the survey	
Indictors		
Standing or flowing water with no indication of recent precipitation	Channel adjacent to she with steep side	If D Natural / irrigation / manmade ditch flowing into feature
presence of hydrophytic vegetation	Natural line, stain or mineral (salt) deposit	Dated picture / account showing / referring to identifiable features
Presence of hydric soil with or without hydrophytic vegetation	Litter, debris and or clay deposits	Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map)
Absence of vegetation or interruption of upland vegetation	Algae or alga mat	Other (Specify)
Notes: SHOWN AS A BL		
		QUAD NOT SHOWN
IN THE NHD		

Ł

Channel Width	26 FT		
Channel Depth	z ft		
High Water Line Width Luw	YFT		
High Water Line Depth Com	1-2"		
Channel Substrate (check all that			
Sand	Cobble		
			Silt / Clay
Gravel	Rock		Other GUNITE
Vegetation Characteristics of C	hannel or Basin	1	
Vegetated Channel or Basin?	Yes	🔲 No	
Dominant / Characteristic Species	1		
BIGHARIS SAUGUE	111 10	Laser -	ATTERED IN ANIME
			CATTERED IN CRACKS
PIPTATHERUM MIL,	ACEUM -	SPARSE	IN CRACKS
VINER CHANNE	el .		
Dominant / Characteristic Species			
MALOSOMA LAWRIN.	4		
BACCHARIS SALICI	FOLIA, B	, PILULA,	RIS
			CUTH SIDE 23" DBH
TOXICOPENDRON DIU			
ERIODICTYON CA	RASSIFULIL	m	
		1. Carlos 1. Car	
AVENA BARBATA,	PIPTATHER	UM MILA	LEUM
AREA HIGHLY	ALERED B	y const	TRUCTION OF TEST
			DRAINAGE CITANNE

bservers: <u>Russell Huddleston and</u>		
eature Name CocA pro-	HNAGE Sa	mple Point CD -
SPS Location: <u>34° 13′ 35</u>	5,934" 118	° 41′ 58.161″
eomorphic Feature		
River	Lake	Swale
Stream	D Pond	Erosional Channel
Canal	Impoundment	Gully
Irrigation Channel	D Playa	Depressional Basin
Drainage Channel	Constructed Basin	Rock Basin
Excavated Ditch	Unvegetatted Depression	Other:
Apparent Hydrologic Regime		
Perennial	Standing Water (Depth:	.)
Intermittent	Flowing Water (Depth_)
Ephemeral	Dry at time of the survey	
ndictors		
Standing or flowing water with no indication of recent precipitation	Channel adjacent to she with steep side	If D Natural / irrigation / manmade ditch flowing into feature
presence of hydrophytic vegetation	Natural line, stain or mineral (salt) deposit	Dated picture / account showing / referring to identifiable features
Presence of hydric soil with or without hydrophytic vegetation	Litter, debris and or clay deposits	Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map)
Absence of vegetation or interruption of upland vegetation	Algae or alga mat	Other (Specify)
Notes: SHOWN AS BUIE	LINE ON USES	7.5 MIN TOPO
QNAD: CALABASAS	- NOT INCLUDI	ED IN NHD
	Service States Law	~ EUIDENT

Channel Width	30 Ft	
Channel Depth	z ft	
High Water Line Width Lew Frew	4.5ft	
High Water Line Bepth Lew quew	1-2 in	
Channel Substrate (check all that a	apply)	
Sand	Cobble	Gilt / Clay
Gravel	Rock	De Other GUNITTE

Vegetation Characteristics of Channel or Basin

Vegetated Channe	or Basin?	M	Yes		Ó			
Dominant / Charao	cteristic Species	5						
BACCITARIS	SALICIFO	UA	- 6.	enert	uz	SPAR	SE A	~0
			SCA	TTERIE	n,	· ~ ~	RACUS	BUT
			Loc	ALLY	DEr	SE .	~ A	FEN
			A	REAS	OF	THE	CHAN	WREL

Vegetation Adjacent to Channel

Dominant /	Characteristic Species
ERIOD	ILTYON CACIFORNICUM
MALOS	soma LAURINA
Toxic	OPENDER DIVERSILCBUM
BACC	HARUS PILMLATUS
CENTA	AUREA MELITENSIS, HETEROTHELA GRANDIFLORA,
PENNI	SETUM SETALEUM, PSEUDOGNAPTHALIUM BIOLETTI
Notes:	
GUN	ITE CHANNEL THAT FLOWS WEST INTO COCA PONT.
THE	UPSTREAM PORMON OF THE CHANNEL NEAR THIS
POIN	T BLOCKED WITH SINGLE ZEW OF STND BAGS
THE	DOWNSTREAM PORMON OF THE GUNITE CHANNED
TER	EMINATES AT 3 CULVERTS - ONE CULVERT WITH
A	CLOSED VALVE AND TWO CULVERS ITAVE
	EN SFALED WITH HEAVY FUBBER COVERS
10-1	
	10 INDICATION OF WATER PONDING BEHAND

2

SACVARID REGION DATA SHEET

bservers: <u>Russell Huddleston and</u>				63.00 A.00
eature Name <u>Coc</u> A DRA PS Location: <u>34°</u> 13′ 3	TIP	AGE Sam	ple l	Point <u>SPS</u> CD -
PS Location: 34° 13' 3	37.	907 118°	42	02.894"
eomorphic Feature			_	
River		Lake		Swale
Stream		Pond		Erosional Channel
Canal		Impoundment		Gully
Irrigation Channel		Playa		Depressional Basin
Drainage Channel		Constructed Basin		Rock Basin
Excavated Ditch		Unvegetatted Depression	۵	Other:
Apparent Hydrologic Regime				
Perennial		Standing Water (Depth:)
Intermittent		Flowing Water (Depth)
Ephemeral	X	Dry at time of the survey		
ndictors				
Standing or flowing water with no indication of recent precipitation		Channel adjacent to shelf with steep side		Natural / irrigation / manmade ditch flowing into feature
presence of hydrophytic vegetation		Natural line, stain or mineral (salt) deposit		Dated picture / account showing / referring to identifiable features
Presence of hydric soil with or without hydrophytic vegetation		Litter, debris and or clay deposits	X	Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map)
Absence of vegetation or interruption of upland vegetation		Algae or alga mat	X	Other (Specify)
Notes: SHEWN AS BUE	L	INE ON USES	7	S MIN. TOPO MAP
		T INCLUDED		
		ETE DITCH		- a cash

Channel Width	12 ft - To	P OF BANK - BANK
Channel Depth	4-4.5 Ft	
High Water Line Width LUW	5 ft	
High Water Line Depth	N 12 INCITES	OR LESS
Channel Substrate (check all tha	t apply)	
Sand	Cobble	Silt / Clay
	Brock	Dither CONCRETE

Vegetation Characteristics of Channel or Basin

Vegetated Channel or Basin?	Yes	X No
Dominant / Characteristic Species	5	

Vegetation Adjacent to Channel

Dominant / Characteristic Species ACMISPON GLABER (= LOTUS SCEPARIUS) ERIOGENUM FASCICULATUM BRASSICA MIGRA BACCHARIS PILVLARIS CRASSIFOLIUM ERIODICTYON CARIFORPHEUM Notes: SOUTH END OF PITCH FILLED WITH SOLL NO CULVERT ENIPERT AT START OF THE CONCRETE CHANNEL APPROX 2" OF SAND IN THE BOTTOM OF THE CHANNEL - NO VECETATION PRESENT AND NO EUIDENCE OF FLOWING WATER in THIS LOCATION SACVARID REGION DATA SHEET 2

bservers: <u>Russell Huddleston and</u>		
eature Name COCA DR	ANNAGE	Sample Point CD -
SPS Location: 34° 13' 3	7. 543"	Sample Point <u></u> CD - 118° 42′ 05, 274″
eomorphic Feature		
River	Lake	Swale
Stream	Pond	Erosional Channel
Canal	Impoundment	Gully
Irrigation Channel	🖵 Playa	Depressional Basin
Drainage Channel	Constructed Ba	asin 🔲 Rock Basin
Excavated Ditch	Unvegetatted Depression	Other:
		1
Apparent Hydrologic Regime	D Standing Wate	r (Depth:)
Perennial	And the second second	(Depth)
 Intermittent Ephemeral 	Dry at time of t	
	1	
Indictors		
Standing or flowing water with no indication of recent precipitation	Channel adjac with steep side	
presence of hydrophytic vegetation	Natural line, st mineral (salt) o	
Presence of hydric soil with or without hydrophytic vegetation	Litter, debris a deposits	nd or clay Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map)
Absence of vegetation or interruption of upland vegetation	Algae or alga	mat Other (Specify)
Notes: SHOWN AS BLUE	ELINE ON	US63 7.5 MIN JOPO
FOR THE CALABASA		NOT INCLUDED IN
THE NHD		
	10.042	PRAINAGE FOR COLA PON

Channel Width	10.8 ft	
Channel Depth	ZFT	
High Water Line Width Low	~3fT	
High Water Line Depth	1-2 INCITES	
Channel Substrate (check all that	apply)	
Sand	Cobble	Silt / Clay
Gravel	Rock	A Other CONCRETE

Vegetation Characteristics of Channel or Basin

Vegetated Channel or Basin?	Yes	X No
Dominant / Characteristic Species	5	

Vegetation Adjacent to Channel

ninant / Characteristic Species	
OXICODENDRON DIVERSILOBUM	
ALACOTHAMNUS FASCICULARIS	
ACCITARIS SAMCIFECIA	
14LOSOMA LAURINA	
BACCITATES PICULATES	
RIODICTYON CANFORMUL	
LES: SAMPLE POINT DOWNSTREAM OF SMALL DRAWA	ABE
INCET - NO SEDIMENT THIS LOCATION, BUT	-
LOTS OF LEAF LITTER - NO EVIDENCE .	OF
RECENT FLOW	
· · · · · · · · · · · · · · · · · · ·	

bservers: Russell Huddleston and	Steve Long	
eature Name <u>COCA</u> DRA	NAGE Sa	mple Point CD-
GPS Location: 34° 13' 38.	509" 118° 42'	13.874"
Geomorphic Feature		*
River	Lake	Swale
Stream	D Pond	Erosional Channel
Canal	Impoundment	Gully
Irrigation Channel	🗋 Playa	Depressional Basin
Drainage Channel	Constructed Basin	Rock Basin
Excavated Ditch	Unvegetatted Depression	Other:
Apparent Hydrologic Regime		
Perennial	Standing Water (Depth:)
Intermittent	Flowing Water (Depth_)
Ephemeral	Dry at time of the survey	
Indictors		
Standing or flowing water with no indication of recent precipitation	Channel adjacent to she with steep side	If UNAtural / irrigation / manmade ditch flowing into feature
presence of hydrophytic vegetation	Natural line, stain or mineral (salt) deposit	Dated picture / account showing / referring to identifiable features
Presence of hydric soil with or without hydrophytic vegetation	Litter, debris and or clay deposits	Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map)
Absence of vegetation or interruption of upland vegetation	Algae or alga mat	Other (Specify)
Notes: SHOWN AS BUDE	LINE ON USES	7.5 MIN TOPO FOR
		ICLUPED IN THE
- SOME WATER STAN TWO UPSTREAM CULVEN IN THE CHANNEL .	ets, - some with	PER/ DESELS WRALLING

10 ft	
10 INCHES	
2 67	
4 INCITES	
apply)	
Cobble	Silt / Clay
	Other
I SAND AND SON	ME GRAVEL
hannel or Basin	
X Yes	ło
- 10-15%	
ellA - SPARSE	25%
EPHALUS - S	SPARSE
	10 Image: All statements 2 f.t 4 Image: All statements apply) Cobble Ø Rock Image: All statements Amp series Channel or Basin Channel or Basin

Vegetation Adjacent to Channel

Dominant / Characteristic Species CRASSIFULIUM ERIODICTION CALIFORNICUES, MALOSOMA LAURINA. RIBES MALVACEUM, MIMULUS AURANTIACUS BACCHARCIS PILULARIS, PHACELIA RAMOSISSIMA. PSENDOGNAPTHALIUM BIOLETTII

Notes: SAMPLE POINT TAKEN DOWN STREAM OF DOUBLE CULVERT 42" AND 24" DIAM. - AT THE FORD OF CONCRETE DRAINAGE CHANNEL. THIS SECTION OF THE CHANNEL APPEARS MORE MATURAL

- FLOWS WEST INTO RZA POND

Observers: Russell Huddleston and	Stev	e Long		
Feature Name COCAR	411	A GE Sam	ple I	Point SP-G-CD-C
Feature Name <u>COCA</u> PR GPS Location: <u>34° 13' 38</u>	5.50	118° 4	12'	15.023"
Geomorphic Feature	_			
River		Lake		Swale
Stream		Pond		Erosional Channel
Canal		Impoundment		Gully
Irrigation Channel		Playa		Depressional Basin
Drainage Channel		Constructed Basin		Rock Basin
Excavated Ditch		Unvegetatted Depression		Other:
Apparent Hydrologic Regime				
Perennial		Standing Water (Depth:)
		Flowing Water (Depth)
Ephemeral	X	Dry at time of the survey		
Indictors				
Standing or flowing water with no indication of recent precipitation		Channel adjacent to shelf with steep side		Natural / irrigation / manmade ditch flowing into feature
presence of hydrophytic vegetation		Natural line, stain or mineral (salt) deposit	۵	Dated picture / account showing / referring to identifiable features
Presence of hydric soil with or without hydrophytic vegetation	Ø	Litter, debris and or clay deposits	X	Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map)
Absence of vegetation or interruption of upland vegetation		Algae or alga mat		Other (Specify)
Notes: SHOWN AS A BLU.	E	UNE ON USES	. 7	opo 7.5 Min
QUAD: CALABASAS		NOT INCLUDE,		
- SMALL AMOUNT OF CHANNEL	LI.	TTER IDEBRIS	a	vracune 12

Channel Width	12 Ft	
Channel Depth	3 Ft	
High Water Line Width - Lew PLew	1. 1 S. 1. 17	
High Water Line Depth Lew	16+	
Channel Substrate (check all that a		
Sand	Cobble	Silt / Clay
Gravel	Rock	Other
		EL - SATD W SomE GRAVED
Vegetation Characteristics of C		
Vegetated Channel or Basin?	1.	No
Dominant / Characteristic Species	1.	
Vegetation Adjacent to Channe		
Dominant / Characteristic Species		
ERIODICTYON CRA	SSIFCLIUM	
QUERCUS AGRIF		
		et addresser
BRASSICA NIGRA,	PHACELIA	RAMOSISSIMA,
CARDINE PYCHAR	EDHAMAS	MULUS AURANTIACUS
Offebrus frepoli	EPIN/FUNS, MI	MUCUS HUFAPTIACUS
		NNEL - SEVERAL
LARGE SAMPSTENE	BOULDERS PR.	ESENT WITHIN CHANNED
FLOWS WEST ING	to RZA P	NT

eature Name <u>Coc</u> A DRA	NAGE San	nple Point OD
GPS Location:		
eomorphic Feature		
River	🗋 Lake	Swale
Stream	D Pond	Erosional Channel
Canal	Impoundment	Gully
Irrigation Channel	D Playa	Depressional Basin
Drainage Channel	Constructed Basin	Rock Basin
Excavated Ditch	Unvegetatted Depression	Other:
Apparent Hydrologic Regime		
Perennial	Standing Water (Depth:))
Intermittent	Flowing Water (Depth))
Ephemeral	Dry at time of the survey	
Indictors		
Standing or flowing water with no indication of recent precipitation	Channel adjacent to shelf with steep side	Natural / irrigation / manmade ditch flowing into feature
presence of hydrophytic vegetation	Natural line, stain or mineral (salt) deposit	Dated picture / account showing / referring to identifiable features
Presence of hydric soil with or without hydrophytic vegetation	Litter, debris and or clay deposits	Wetland symbol on map (presence of solid or dotted blue line, solid, shaded or stippled blue area on map)
Absence of vegetation or interruption of upland vegetation	Algae or alga mat	Other (Specify)
Notes: SHOWN AS BLUE	LINE ON USG	S 7.5 MIN. TOPO
Notes: SHOWN AS BLUE FOR THE CALABASAS	santo - not,	NEWDED IN THE

Channel Width	14 ft	
Channel Depth	1.5 FT	
High Water Line Width Lew	ZET	
High Water Line Depth Lew	6 INCITES	
Channel Substrate (check all that	apply)	
DF Sand	Cobble	Silt / Clay
Gravel 10-15%	Rock	Other

Vegetation Characteristics of Channel or Basin

Vegetated Channel or Basin?	Yes	No No	
Dominant / Characteristic Species	5	1	
			1

Vegetation Adjacent to Channel

Dominant / Characteristic Species <u>ERIOPICTYON</u> CRASSIFOLIUM, BACCHARIS PILULARIS, <u>MALACOTHAMINUS</u> FASCICULATUS, MIMULUS AURAMITACUS, <u>ADENOSTOMA</u> FASCICULATUM, CEAMOTHUS CRASSIFOLIUS TOXICO DENDRON DIVERSILOBUM, PIPTATHERUM MILACEUM

Notes: NATURAL DRAINAGE CHANNEL JUST UPSTREAM

Appendix G Representative Photographs

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G-1. Coca Pond view north. January 3, 2012.



G-3. Coca Pond SP-2 soil pit (out). January 3, 2012



G-2. Coca Pond view east of the stormwater basin just upstream from Coca Pond. January 3, 2012.



G-4. Coca Pond. Organic sediment accumulation at SP-1. January 3, 2012



G-5. Upper reaches of Coca Drainage. View upstream at Coca test stand at stream data point CD-1. January 3, 2012.



G-6. Bell Creek Tributary (Coca Drainage below Coca Pond). View east (downstream) of concrete lined ditch just below Coca Pond outlet at stream data point CD-3. January 3, 2012.



G-8. NASA Area 1. View west (uphill) of seasonal ponding feature SW-1 PEMAx. January 4, 2012



G-7. Bell Creek Tributary 3 (Drainage within Delta Area). View east (upstream) of plunge pools on stream that still had water at stream data point CD-6. January 3, 2012.



G-9. NASA Area 1. Seasonal ponding feature SW-1 P-1 soil pit (in). January 4, 2012.



G-11. NASA Area 1 Impoundment Pond (PEMCh). View west showing berm that creates the impoundment pond described on stream data sheet and wetland data sheet SW-2 in northwestern portion of property. January 4, 2012



G-10. NASA Area 1. Seasonal ponding feature SW-1 P-2 soil pit (out). January 4, 2012.



G-12. NASA Area 1 Impoundment Pond. SW-2 P-1 soil pit (in). January 4, 2012.



G-13. NASA Area 1 Impoundment Pond. SW-2 P-2 soil pit (out). January 4, 2012



G-14. NASA Area 1 Lower Drainage. View west (downstream) at stream data point ND-4. January 4, 2012.



G-15. NASA Area 2 Northeastern Drainage. View north (downstream) at stream data point SP-3. January 4, 2012



G-16. R2A Pond. View south. January 5, 2012



G-17. R2A Pond. Culvert and gated weir from R2A Pond. January 5, 2012



G-18. R2A Pond. View north. January 5, 2012



G-20. R2A Pond. Soil pit R2A SP-2 (out). January 5, 2012



G-19. R2A Pond. Soil pit R2A SP-1 (in). January 5, 2012





G-21. R2A Pond. R2A Pond Pump intake and piping for water transfers to and from Silvernale Pond. January 5, 2012

G-22. R2B Pond. Drift line of algal matting on R2B pond at 36 inches above current water level. January 5, 2012



G-23. R2B Pond. Soil pit 1 R2B SP-1 (in). January 5, 2012



G-24. R2B Pond. Location of soil pit R2B SP-2 (out) on western margin of pond. January 5, 2012



G-25. Bell Creek SW. View west (downstream) at stream data point BC-11. January 5, 2012.



G-27. Bell Creek at Alfa Site. Earthen dam along Bell Creek view west-northwest. January 5, 2012



G-26. Small concrete impoundment controlling flow along Bell Creek from Alfa site (view west). January 5, 2012



G-28. Bell Creek at Bravo Site. Culvert discharge below and north of capped pond outfall. January 5, 2012



G-29. Bell Creek at SPA Site. View west (downstream) at stream data point BC-6. January 6, 2012. [Designated in report as BC-6]



G-31. Bell Creek Tributary 1 near CDFF Site. Bell Creek at confluence. January 6, 2012



G-30. Bell Creek near CDFF Site. View north (upstream) at stream data point BC-8 above R2B Pond. January 6, 2012.



G-32. Bell Creek Tributary (PLF Site). View north into natural channel above CLORP leading to capped Delta Pond. January 6, 2012

Appendix H Plant Species Observed This page intentionally left blank.

APPENDIX H List of Plant Species Observed

APPENDIX H

Scientific Name ¹	Common Name ²	Wetland Indicator Status ³	Habit and Origin ⁴
	DICOTS		
AIZOACEAE			
Mesembryanthemum crystallinum	Common iceplant	NL	Herb (A/P); I
ADOXACEAE			
Sambucus nigra ssp. caerulea (Sambucus mexicana)	American black elderberry	FACU	Shrub/Tree; N
ANACARDIACEAE			
Malosoma laurina	laurel sumac	NI	Shrub; N
Toxicodendron diversilobum	Pacific poison oak	NI	Shrub; N
ASTERACEAE			
Artemisia californica	coastal sagebrush	NI	Shrub; N
Artemisia douglasiana	Douglas' sagewort	FAC+	Herb (P); N
Baccharis pilularis	coyotebrush	NI	Shrub; N
Baccharis salicifolia	mule-fat	FACW	Shrub; N
Carduus pycnocephalus	Italian plumeless thistle	NI	Herb (A); I
Centaurea melitensis	Maltese star-thistle	NI	Herb (A/B); I
Cirsium occidentale var. occidentale	cobwebby thistle	NI	Herb (B); N
Conyza canadensis	Canadian horeseweed	FAC	Herb (A/B); N
Heterotheca grandiflora	telegraphweed	NI	Herb (A/P); N
Hypochaeris glabra	smooth cat's ear	NI	Herb (A); I
Pseudognaphalium biolettii (Gnaphalium bicolor)	two-color rabbit-tobacco	NI	Herb/SS (B); N
Psilocarphus tenellus	slender woollyheads	FAC	Herb (A); N
Silybum marianum	blessed milkthistle	NI	Herb (A/B); I
Sonchus asper	spiny sowthistle	FAC	Herb (A); I
Sonchus oleraceus	common sowthistle	NI	Herb (A); I
Venegasia carpesioides	canyon sunflower	NI	SS/Shrub; N
Xanthium strumarium	rough cocklebur	FAC+	Herb (A); N

APPENDIX H List of Plant Species Observed

Scientific Name ¹	Common Name ²	Wetland Indicator Status ³	Habit and Origin ⁴
BORAGINACEAE		-	
Cryptantha sp.	cryptantha	NI	Herb (A); N
Eriodictyon crassifolium	thickleaf yerba santa	NI	Shrub; N
Phacelia cicutaria	caterpillar phacelia	NI	Herb (A); N
Phacelia ramosissima	branching phacelia	NI	Herb/SS (P); N
BRASSICACEAE			
Brassica nigra	black mustard	NI	Herb (A); I
CALLITRICHACEAE			
Callitriche marginata	Water starwort	OBL	Herb(A); N
CAPRIFOLIACEAE		-	
Lonicera subspicata	southern honeysuckle	NI	Shrub/Vine; N
Symphoricarpos mollis	creeping snowberry	NI	SS/Shrub; N
CRASSULACEAE			
Crassula aquatica	Crassula aquatica	OBL	Herb (A); N
FABACEAE		-	
Acmispon glaber (syn. Lotus scoparius)	common deerweed	NI	SS (P); N
Vicia villosa	winter vetch	NI	Herb (A/P); I
FAGACEAE		-	
Quercus agrifolia	California live oak	NI	Tree/Shrub; N
GERANIACEAE		-	
Erodium botrys	longbeak stork's bill	NI	Herb (A/B); I
GROSSULARIACEAE		-	
Ribes malvaceum	chaparral current	NI	Shrub; N
LAMIACEAE			
Salvia mellifera	black sage	NI	SS/Shrub; N
LAURACEAE	· ·	·	·
Umbellularia californica	California laurel	FAC	Tree/Shrub; N
MALVACEAE			
Malacothamnus fasciculatus	Mendocino bushmallow	NI	SS/Shrub; N
MYRSINACEAE			
Anagallis arvensis	scarlet pimpernel	FAC	Herb (A/B); I
PHRYMACEAE		·	
Mimulus aurantiacus	orange bush monkeyflower	NI	Shrub/SS; N

APPENDIX H

List of Plant Species Observed

Scientific Name ¹	Common Name ²	Wetland Indicator Status ³	Habit and Origin ⁴
PLANTAGINACEAE			
Keckiella cordifolia	heartleaf Keckiella	NI	Shrub/SS; N
Veronica peregrina	Purslane speedwell	OBL	Herb (A); N
PLATANACEAE			
Platanus racemosa	California sycamore	FACW	Tree; N
POLYGONACEAE			-
Eriogonum fasciculatum var. fasciculatum	Eastern Mojave buckwheat	NI	SS/Shrub; N
Rumex crispus	curly dock	FACW	Herb (P); I
Rumex salicifolius	willow dock	OBL	Herb (P); N
RHAMNACEAE			
Ceanothus crassifolius	hoaryleaf ceanothus	NI	Shrub; N
Ceanothus oliganthus	hairy ceanothus	NI	Shrub; N
Ceanothus spinosus	redheart	NI	Shrub; N
ROSACEAE			
Adenostoma fasciculatum	chamise	NI	Shrub ; N
Cercocarpus betuloides	birchleaf mountain mahogany	NI	Shrub/Tree; N
Herteromeles arbutifolia	toyon	NI	Shrub ; N
Rosa californica	California wildrose	FAC+	Shrub; N
Rubus ursinus	California blackberry	FAC+	SS (P); N
RUBIACEAE			
Galium angustifolium	narrowleaf bedstraw	NI	Herb/SS (P); N
Galium aparine	stickywilly	FACU	Herb (A); N
Galium cliftonsmithii	Santa Barbara bedstraw	NI	Shrub; N
Galium nuttallii	climbing bedstraw	NI	SS/Shrub ; N
Galium parisiense	wall bedstraw	FACU	Herb (A);I
SALICACEAE	·		·
Salix lasiolepis	arroyo willow	FACW	Tree/Shrub; N
	MONOCOTS		
CYPERACEAE			
Cyperus eragrostis	tall flatsedge	FACW	Graminoid (P); N
Eleocharis macrostachya	pale spikerush	OBL	Graminoid (P); N
Schoenoplectis sp.	tule	OBL	Graminoid (P); N
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APPENDIX H

List of Plant Species Observed

Scientific Name ¹	Common Name ²	Wetland Indicator Status ³	Habit and Origin ⁴
JUNCACEAE			
Juncus bufonius	toad rush	FACW+	Graminoid (P); N
POACEAE	·	·	·
Avena barbata	slender oat	NI	Graminoid (A); I
Bromus diandrus	ripgut brome	NI	Graminoid (A); I
Bromus hordeaceus	soft brome	NI	Graminoid (A); I
Bromus madritensis ssp. rubens	red brome	UPL	Graminoid (A); I
Leymus condensatus	giant ryegrass	FACU	Graminoid (P); N
Pennisetum setaceum	crimson fountaingrass	NI	Graminoid (P); I
Piptatherum miliaceum	smilograss	NI	Graminoid (P); I
Poa secunda	Sandberg bluegrass	NI	Graminoid (P); N
Polypogon monspeliensis	annual rabbitsfoot grass	FACW+	Graminoid (A); I

Typha domingensis	southern cattail	OBL	Herb (P);
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Notes:

N = Native

I = Introduced (non-native species that have become naturalized)

(A) = Annual (B) = Biennial (P) = Perennial SS = Sub-Shrub

1Taxonomy follows the currently accepted nomenclature for plant species occurring in California as indicated on the Jepson On-Line Interchange for California Floristics (University of California, 2011).

2Species common name, origin and grow habitat from the U.S. Department of Agriculture's Plants Database (2011).

3 Wetland Indicator Status is taken from 1998 National List of Plants that Occur in Wetlands (Region 0: California) (Reed, 1988)

Wetland Indicator Status Codes:

OBL = Obligate Wetland. Occurs with an estimated 99 probability in wetlands

FACW = Facultative Wetland. Estimated 67 to 99 percent probability of occurrence in wetlands

FAC = Facultative. Equally likely to occur in wetlands and non-wetlands

NI = No indicator. Insufficient information available to determine an indicator status

FACU = Facultative Upland. Estimated 67 to 99 percent probability of occurrence in uplands

UPL = Obligate Upland. Occurs with an estimated 99 probability in uplands

(+) = Positive sign indicates a frequency toward higher end of category (i.e., more frequently found in wetlands)

(-) = Negative sign indicates a frequency toward lower end of category (i.e., more frequently found in uplands)

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