

North County Corridor New State Route 108

Preliminary Jurisdictional Delineation

Cities of Modesto, Riverbank, and Oakdale Stanislaus County, California 10-STA-108

SR-108 [PM 27.5/44.5], SR-219 [PM 3.7/4.8], SR-120 [PM 6.9-11.6] Project ID. 1000000263

EA 10-0S800

March 2015



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March 2015

STATE OF CALIFORNIA

Department of Transportation
County of Stanislaus

Date: 2-13-15

Date: 5-12-2015

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List of Abbreviated Terms

BSA Biological Study Area

CTS California tiger salamander

Caltrans California Department of Transportation

EPA United States Environmental Protection Agency

ft foot/feet

GIS Geographic Information System

ICF ICF International

mi miles

MID Modesto Irrigation District

NCC North County Corridor New State Route 108

NES Natural Environment Study
OID Oakdale Irrigation District
OHWM Ordinary high water mark

SR State Route
U.S. United States

USACE United States Army Corps of Engineers

Chapter 1. Introduction

The California Department of Transportation (Caltrans), in cooperation with the North County Corridor Transportation Expressway Authority, proposes to construct the North County Corridor New State Route 108 (NCC) in northern Stanislaus County, California.

This report presents the results of a delineation of the extent of waters of the United States, including wetlands, within the study area developed for the NCC. Waters of the United States are subject to United States Army Corps of Engineers (USACE) regulation under Section 404 of the Clean Water Act.

1.1. Project Location

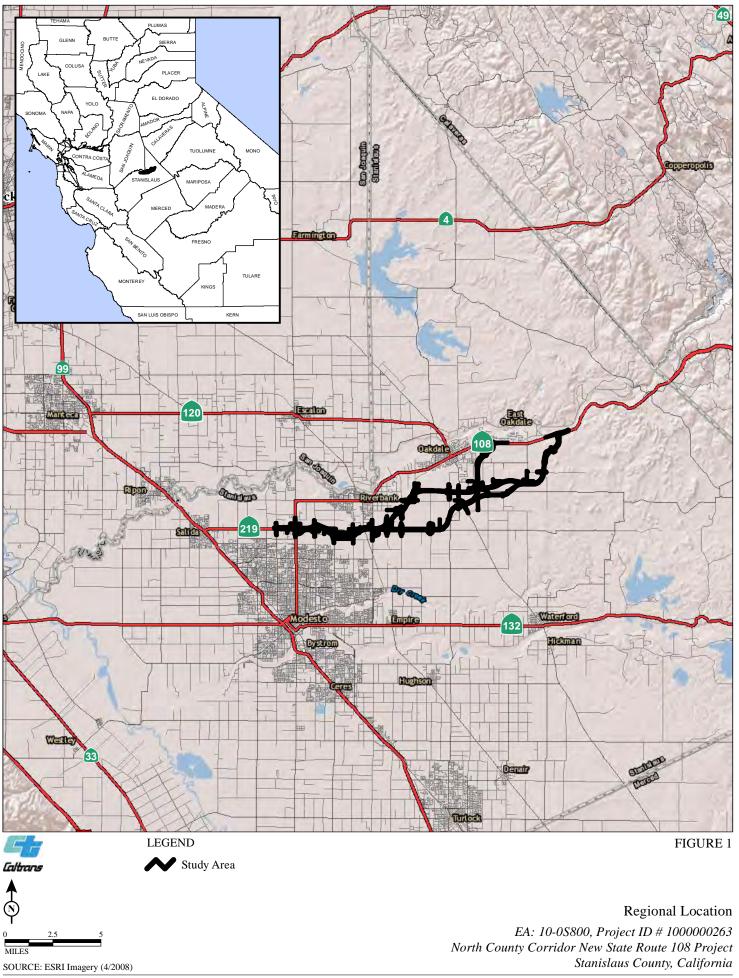
The NCC is located in northern Stanislaus County in the San Joaquin Valley. The western end of the NCC begins approximately 4 miles (mi) east of State Route (SR) 99 and approximately 0.75 mi north of Modesto. The NCC extends approximately 18 mi to the east/northeast and ends at SR-108 east of Oakdale.

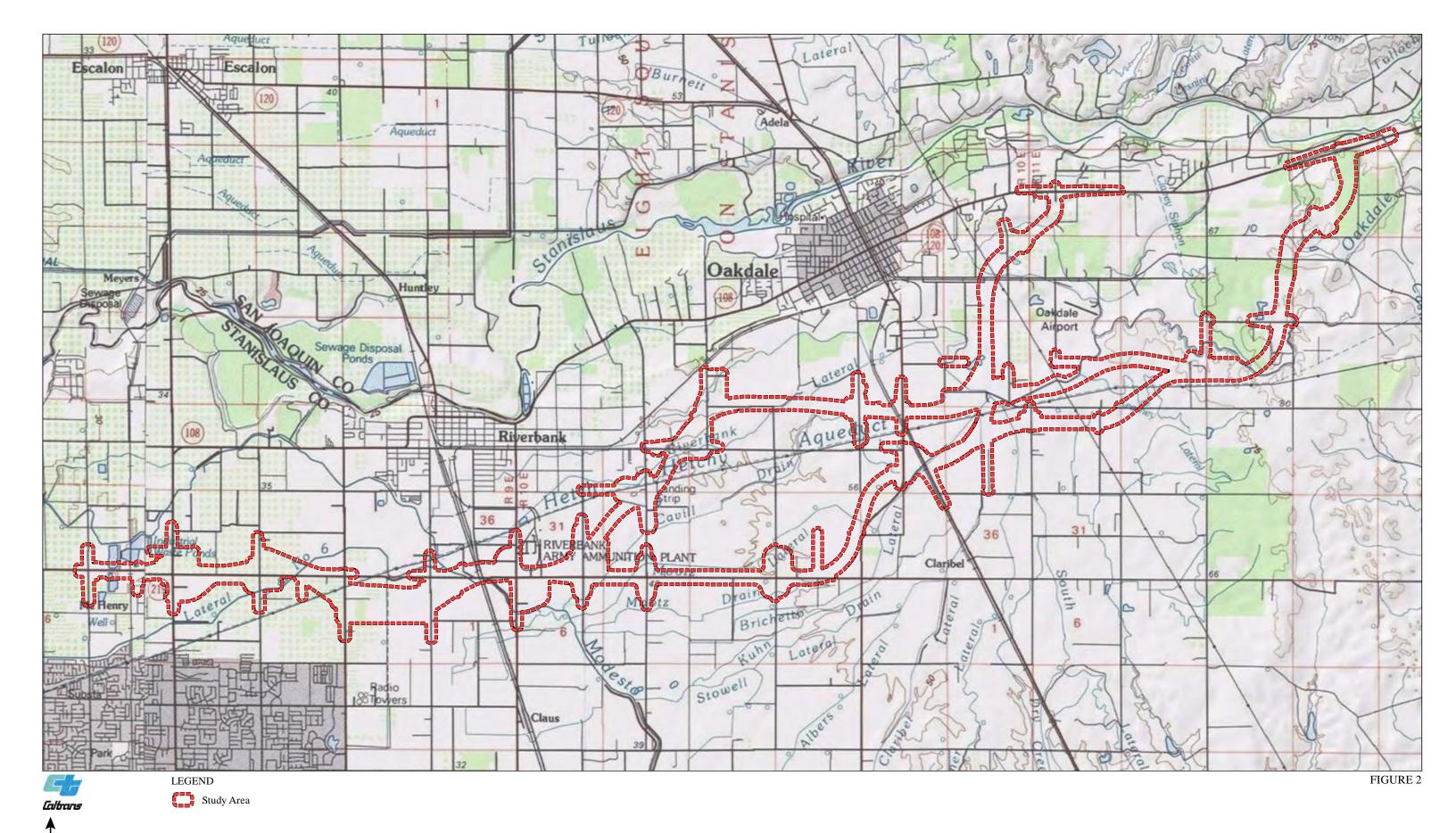
The NCC is located within portions of Township 2 South Ranges 9, 10, and 11E and Township 3 South Ranges 9, 10, and 11E Mount Diablo Baseline and Meridian, on the Salida, California; Riverbank, California; Waterford, California; Oakdale, California; and Knights Ferry, California 7.5-minute series United States Geological Survey topographic maps.

The regional vicinity is shown in Figure 1. The project location is shown in Figures 2 and 3.

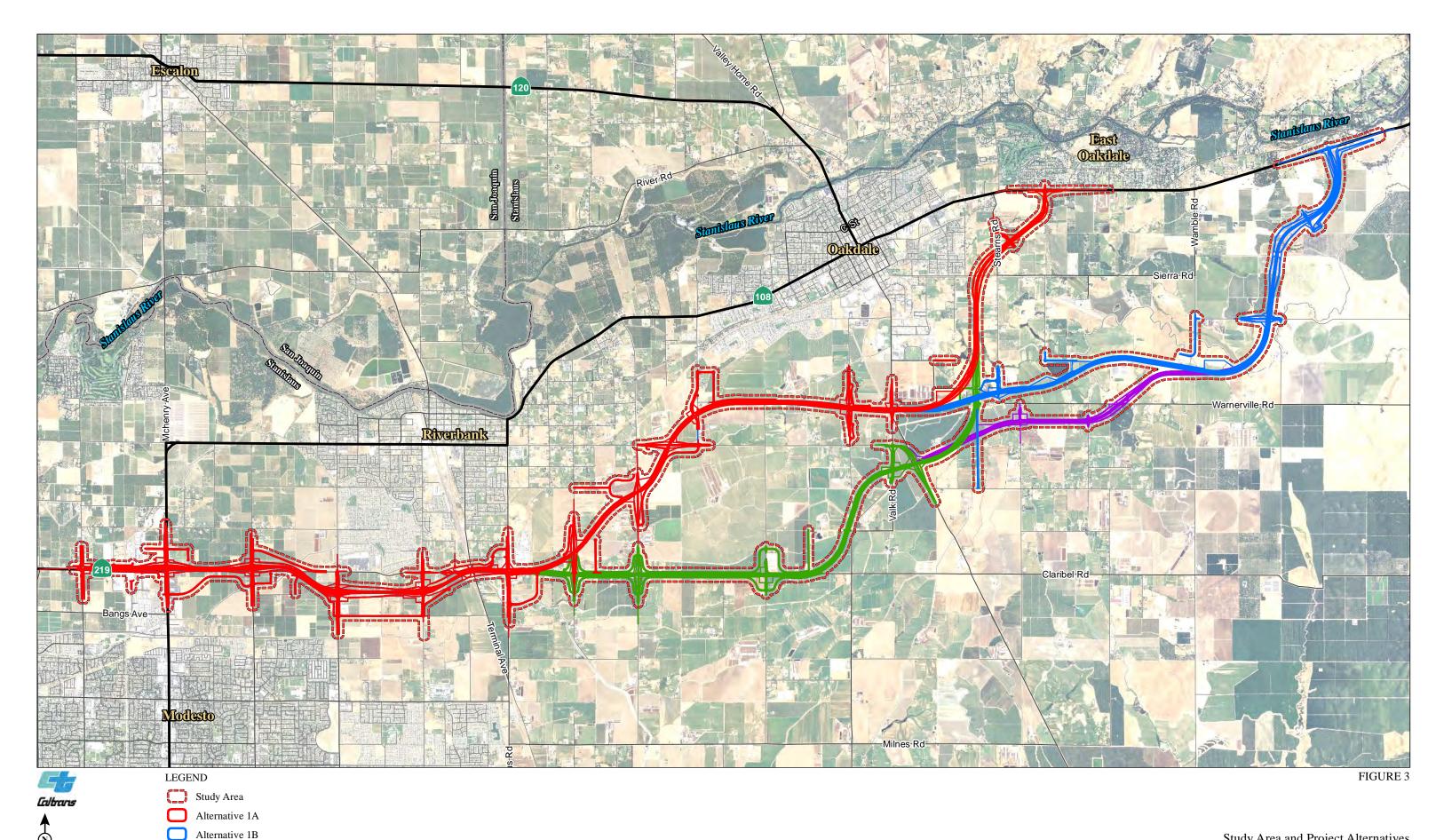
1.1.1. Driving Directions

To reach the western end of the study area: from SR-99, exit at Broadway Avenue/Kiernan Avenue/CA-219 and proceed east on Broadway Avenue/Kiernan Avenue/CA-219 about 4 mi until reaching the Claribel Road/Tully Road intersection (western limit of the study area). To reach the eastern end of the study area: continue east from the Claribel Road/Tully Road intersection approximately 4 mi until reaching Albers Road. Proceed north on Albers until it reaches SR-108, then proceed east. The eastern limit of the study area is approximately 6 mi east, near the intersection of Lancaster Road and SR-108.





0 0.5 1 MILES Study Area on Topographic Base
EA: 10-0S800, Project ID # 1000000263
North County Corridor New State Route 108 Project
Stanislaus County, California



Study Area and Project Alternatives

EA: 10-0S800, Project ID # 1000000263

North County Corridor New State Route 108 Project

Stanislaus County, California

SOURCE: NAIP (2012)

Alternative 2A
Alternative 2B

1.2. Project Description

The proposed project is located in Caltrans District 10 within portions of the Oakdale, Riverbank, and Modesto communities, Stanislaus County, California (see Figures 1 and 2). The NCC will connect SR-219 near Modesto, CA to SR-120 near Oakdale, CA. The proposed project consists of four Build Alternatives (1A, 1B, 2A, and 2B) and the No-Build Alternative (see Figure 3).

The western terminus of all alternatives is at the SR-219 (Kiernan Avenue)/Tully Road intersection. The alternatives proceed to the vicinity of the Claus Road/Claribel Road intersection, where Segment 2 begins and the alternatives separate into two different alignments (A and B). In Segment 2, Alternatives 1A and 1B veer northeast near the Claus Road/Claribel Road intersection and pass through the southern boundary of Oakdale, and Alternatives 2A and 2B continue easterly along Claribel Road and turn northeastward past the intersection of Claribel Road/Bentley Road. Each of the alternatives then breaks into two possible alignments to their eastern terminus in Segment 3, just past the Oakdale-Waterford Highway. The eastern terminus of Alternatives 1A and 2A end along SR-108/120 just east of the City of Oakdale boundary. Alternatives 1B and 2B end farther east of the Alternatives 1A and 2A terminus, along SR-108/120 in the vicinity of Lancaster Road. The purpose of the project is to reduce existing and future traffic congestion in northern Stanislaus County, enhance traffic safety on existing SR-108, support the efficient movement of goods, and improve interregional travel.

The proposed project improvements include:

- At grade intersections;
- Grade separation structures at major roadway and railway crossings;
- Structures at various waterway crossings, such Modesto Irrigation District (MID) and Oakdale Irrigation District (OID) canals;
- County and City roadway improvements at various locations; and,
- New freeway/expressway controlled access travel lanes.

The four alternatives would consist of two to three 12-foot (ft)-wide through lanes with 5-ft to 10-ft-wide left and right shoulders in each direction. The east-bound and west-bound alignments would be separated by a 46 to 70-ft-wide median, including

the 5-ft to 19-ft-wide shoulders and 26-ft to 60-ft-wide graded, unpaved median area. Drainage swales would be located along either side of the new roadway.

As the proposed roadway would function as a freeway/expressway with controlled access, new and realigned local access roads are needed to provide continued access to existing properties. This would involve construction of a discontinuous local roadway system, which would provide a 12-ft-wide through lane and an 8-ft-wide shoulder, in each direction. Up to a 12-ft-wide area would be provided between the right-of-way limit and the edge of pavement to allow for drainage ditches. Where required, turn lanes would provide connections to cross roads. Each of the four build alternatives includes these proposed local access roads, which are delineated on Figure 3.

Elevated roadways, separated grade crossings, single point urban interchanges, signalized intersections, and roundabouts would be needed for each of the four alternatives. A Class 2 bike lane would also be constructed within the road shoulder from Claus Road to the eastern terminus at SR-108/120.

Various utilities exist throughout the project area that would need to be relocated. These include electric, telephone, water, sewer, and irrigation lines. At the time of this report, the exact locations to which the impacted utilities would be relocated is unknown, but relocation would take place within the currently defined project area.

Permanent right-of-way and temporary construction easements would also be required for the proposed project.

Chapter 2. Environmental Setting

The study area is located in northern Stanislaus County in the San Joaquin Valley, the western limits begin northeast of the City of Modesto continuing south of the City of Riverbank and ending east of the City of Oakdale, on the existing SR-108/120.

The study area, as discussed herein, consists of the proposed NCC and local access road right of way limits plus an additional 250 ft. On continuous sections of the NCC (i.e., with no interchanges, intersections, etc.), the study area is approximately 740 ft wide; the average width of the study area along local access roads is 560 ft; the total acreage of the project area is approximately 5,434 acres.

2.1. Topography

The western and central portions of the study area are generally flat; the topography begins trending upward in the eastern portion of the study area. The elevation within the study area ranges from approximately 100 ft above sea level at the western end to approximately 250 ft above sea level at the eastern end.

2.2. Climate

The climate in the study area is Mediterranean with cool, wet winters and hot, dry summers. The average total annual precipitation is approximately 12.21 inches (Western Regional Climate Center, 2014), most of which falls between November and April. There is normally less than 0.5 inch of rain between June and September. The average winter temperature is 47.5 °F and the average winter low temperature is 39.6 °F. The average summer temperature is 75.1 °F and the average summer high temperature 91.6 °F.

2.3. Hydrology

The study area is located within the Middle San Joaquin-Lower Merced-Lower Stan Watershed (Hydrologic Unit Code # 18040002) (U.S. Environmental Protection Agency 2014).

There are no substantial waterways in the study area but several small waterways are present. Many of these waterways are very small and unnamed, with only seasonal

water conveyance. The eastern portion of the study area, generally north of Warnerville Road, drains to the north towards the Stanislaus River. The remainder of the study area generally drains south or southwest towards Dry Creek, which is a tributary to the Tuolumne River.

Several irrigation canals also occur within the study area. These canals are part of either the MID (western part of the study area) or the OID (eastern part of the study area). The irrigation canals are generally concrete-lined and controlled with earthen levees.

2.4. Soils

According to the *Soil Survey of the Eastern Stanislaus County Area* (Arkley 1964), a total of 54 soil mapping units occur within the study area. These units are summarized below in Table 1 and are shown on Figures 4a and 4b.

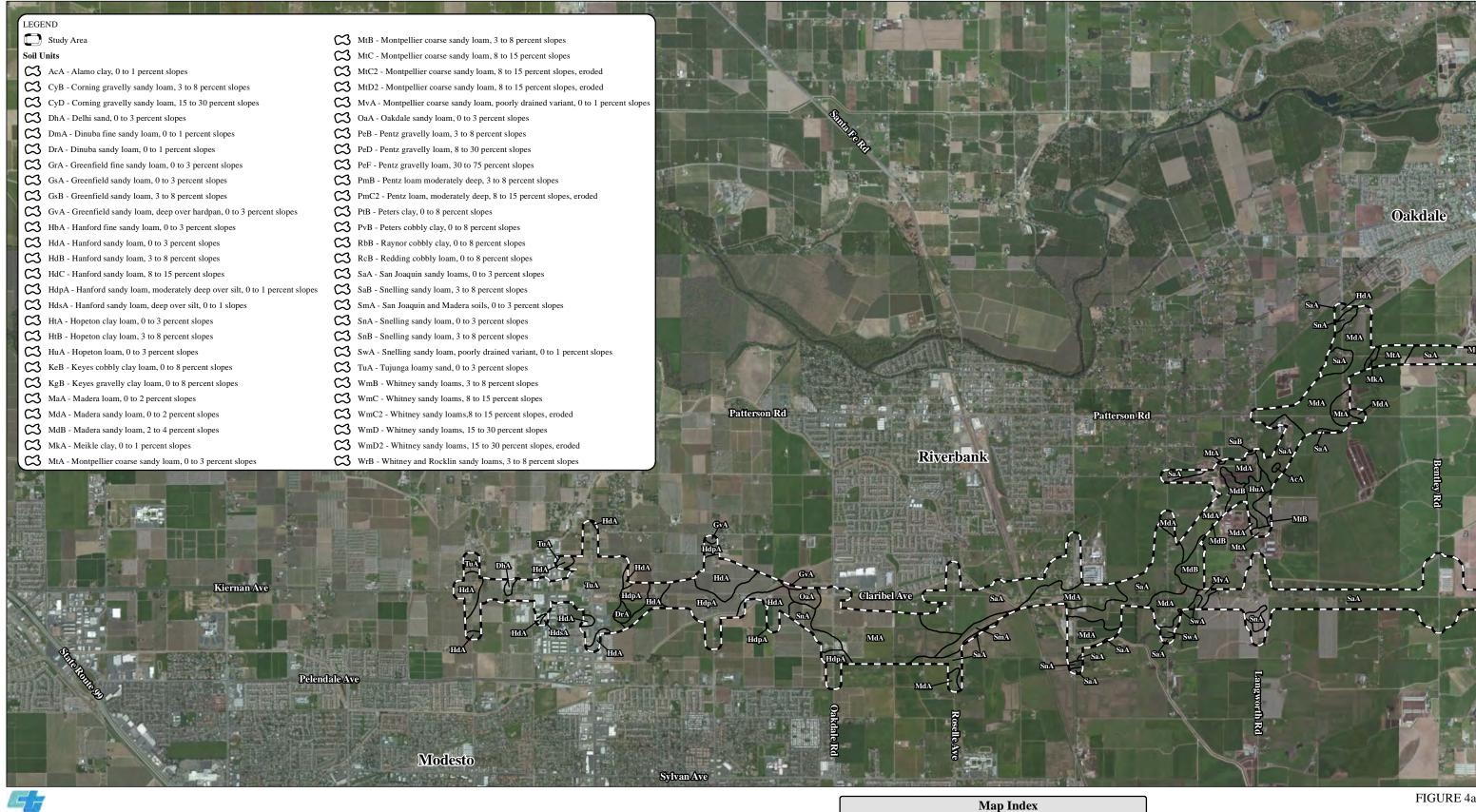
Table 1: Summary of Soil Units that Occur within the Study Area

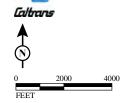
Map			Drainage		
Unit	Soil Series	Location	Class	Permeability	Texture
AcA	Alamo clay, 0 to 1 percent slopes	Fan remnants	Poorly drained	Very slow, non through	Clay
СуВ	Corning gravelly sandy loam, 3 to 8 percent slopes	Stream terraces	Moderately well drained	hardpan Slow	Sandy loam
CyD	Corning gravelly sandy loam, 15 to 30 percent slopes	Stream terraces	Moderately well drained	Slow	Sandy loam
DhA	Delhi sand, 0 to 3 percent slopes	Sand sheets	Somewhat excessively drained	Very rapid	Sand
DmA	Dinuba fine sandy loam, 0 to 1 percent slopes	Alluvial fans	Moderately well drained	Moderate	Fine sandy loam
DrA	Dinuba sandy loam, 0 to 1 percent slopes	Alluvial fans	Moderately well drained	Moderate	Sandy loam
GrA	Greenfield fine sandy loam, 0 to 3 percent slopes	Alluvial fans	Well drained	Moderate	Fine sandy loam
GsA	Greenfield sandy loam, 0 to 3 percent slopes	Alluvial fans	Well drained	Moderately rapid	Sandy loam

Map	a na .	т 4.	Drainage	D 1994	TD. 4
Unit	Soil Series	Location	Class	Permeability	Texture
GsB	Greenfield sandy loam, 3 to 8 percent slopes	Alluvial fans	Well drained	Moderately rapid	Sandy loam
GvA	Greenfield sandy loam, deep over hardpan, 0 to 3 percent slopes	Alluvial fans	Well drained	Moderately rapid	Sandy loam
HbA	Hanford fine sandy loam, 0 to 3 percent slopes	Alluvial fans	Well drained	Moderately rapid	Fine sandy loam
HdA	Hanford sandy loam, 0 to 3 percent slopes	Alluvial fans	Well drained	Rapid	Sandy loam
HdB	Hanford sandy loam, 3 to 8 percent slopes	Alluvial fans	Well drained	Rapid	Sandy loam
HdC	Hanford sandy loam, 8 to 15 percent slopes	Alluvial fans	Well drained	Rapid	Sandy loam
HdpA	Hanford sandy loam, moderately deep over silt, 0 to 1 percent slopes	Alluvial fans	Well drained	Rapid	Sandy loam
HdsA	Hanford sandy loam, deep over silt, 0 to 1 slopes	Alluvial fans	Well drained	Rapid	Sandy loam
HtA	Hopeton clay loam, 0 to 3 percent slopes		Moderately well drained	Slow	Clay loam
HtB	Hopeton clay loam, 3 to 8 percent slopes		Moderately well drained	Slow	Clay loam
HuA	Hopeton loam, 0 to 3 percent slopes		Moderately well drained	Slow	Clay loam
KeB	Keyes cobbly clay loam, 0 to 8 percent slopes	Fan remnants	Moderately well drained	Very slow	Clay loam
KgB	Keyes gravelly clay loam, 0 to 8 percent slopes	Fan remnants	Moderately well drained	Very slow	Clay loam
MaA	Madera loam, 0 to 2 percent slopes	Fan remnants	Moderately well drained	Very slow	Loam
MdA	Madera sandy loam, 0 to 2 percent slopes	Fan remnants	Moderately well drained	Very slow	Sandy loam
MdB	Madera sandy loam, 2 to 4 percent slopes	Fan remnants	Moderately well drained	Very slow	Sandy loam

Map			Drainage		
Unit	Soil Series	Location	Class	Permeability	Texture
MkA	Meikle clay, 0 to 1	Basin floor	Somewhat	Very slow	Clay
	percent slopes		poorly drained		
MtA	Montpellier coarse	Fan remnants	Well drained	Slow	Coarse sandy
	sandy loam, 0 to 3				loam
	percent slopes				
MtB	Montpellier coarse	Fan remnants	Well drained	Slow	Coarse sandy
	sandy loam, 3 to 8				loam
	percent slopes				
MtC	Montpellier coarse	Fan remnants	Well drained	Slow	Coarse sandy
	sandy loam, 8 to 15				loam
	percent slopes				
MtC2	Montpellier coarse	Fan remnants	Well drained	Slow	Coarse sandy
	sandy loam, 8 to 15				loam
	percent slopes, eroded				
MtD2	Montpellier coarse	Fan remnants	Well drained	Slow	Coarse sandy
	sandy loam, 15 to 30				loam
	percent slopes, eroded				
MvA	Montpellier coarse	Drainageways	Poorly drained	Slow	Coarse sandy
	sandy loam, poorly		•		loam
	drained variant, 0 to 1				
	percent slopes				
OaA	Oakdale sandy loam,	Fan remnants	Well drained	Moderate	Sandy loam
	0 to 3 percent slopes				
PeB	Pentz gravelly loam,	Hillslopes	Well drained	Moderate	Gravelly loam
TCD	3 to 8 percent slopes	Timstopes	vv en aranea	Wioderate	Graverry rount
D ₀ D		Hillslanes	Well drained	Madamata	Cmarrally loam
PeD	Pentz gravelly loam,	Hillslopes	wen dramed	Moderate	Gravelly loam
	8 to 30 percent slopes				
PeF	Pentz gravelly loam,	Hillslopes	Well drained	Moderate	Gravelly loam
	30 to 75 percent				
	slopes				
PmB	Pentz loam	Hillslopes	Well drained	Moderate	Loam
	moderately deep, 3 to				
	8 percent slopes				
PmC2	Pentz loam,	Hillslopes	Well drained	Moderate	Loam
	moderately deep, 8 to				
	15 percent slopes,				
	eroded				
PtB	Peters clay, 0 to 8	Hillslopes	Well drained	Slow	Clay
	percent slopes				
PvB	Peters cobbly clay, 0	Hillslopes	Well drained	Slow	Cobbly clay
	to 8 percent slopes				
RbB	Raynor cobbly clay, 0	Terraces	Well drained	Slow	Cobbly clay
	to 8 percent slopes				
	to o percent stopes				<u> </u>

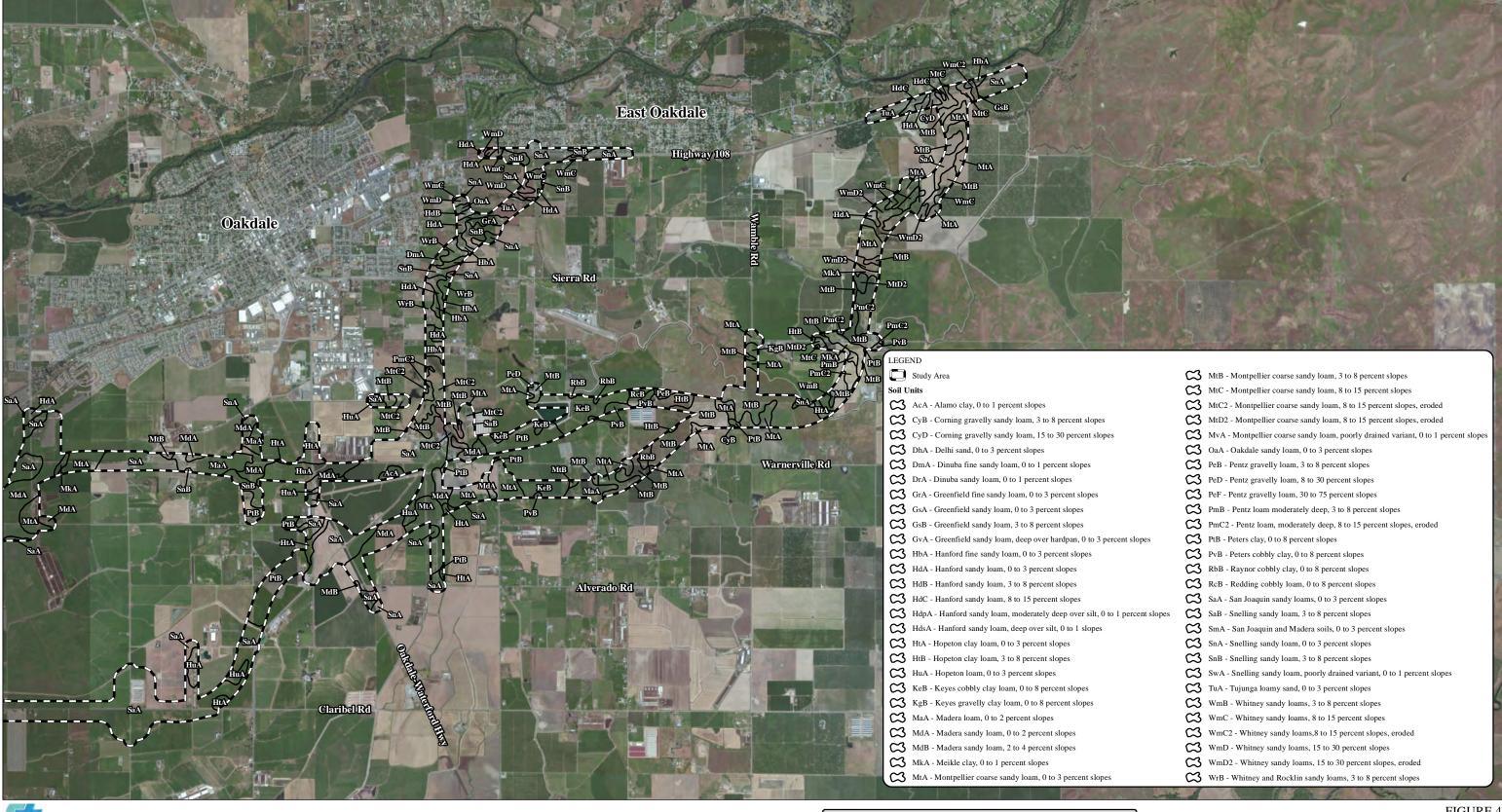
Map			Drainage		
Unit	Soil Series	Location	Class	Permeability	Texture
RcB	Redding cobbly loam,	Fan remnants	Moderately	Very slow	Cobbly loam
	0 to 8 percent slopes		well drained		
SaA	San Joaquin sandy	Fan remnants	Moderately	Very slow	Sandy loam
	loams, 0 to 3 percent		well drained		
	slopes				
SaB	Snelling sandy loam,	Fan remnants	Moderately	Very slow	Sandy loam
	3 to 8 percent slopes		well drained		
SmA	San Joaquin and	Fan remnants	Moderately	Very slow	Sandy loam
	Madera soils, 0 to 3		well drained		
C A	percent slopes	F	XX7-11 dueline d	M - 1 4 - 1	C 1 - 1
SnA	Snelling sandy loam, 0 to 3 percent slopes	Fan remnants	Well drained	Moderately slow	Sandy loam
G D	1 1	Г ,	XX7 11 1 ' 1		C 1 1
SnB		Fan remnants	well drained		Sandy Ioam
G A	1 1	ъ .	D 1 1 1 1		C 1 1
SWA		Depressions	Poorly drained	_	Sandy Ioam
				Slow	
TuA	-	Alluvial fans	Somewhat	Very rapid	Loamy sand
				, say ampan	
			drained		
WmB	Whitney sandy loams,	Fan remnants	Well drained	Moderate	Sandy loam
	3 to 8 percent slopes				
WmC	Whitney sandy loams,	Fan remnants	Well drained	Moderate	Sandy loam
	8 to 15 percent slopes				
WmC2	Whitney sandy	Fan remnants	Well drained	Moderate	Sandy loam
	loams,8 to 15 percent				-
	slopes, eroded				
WmD		Fan remnants	Well drained	Moderate	Sandy loam
	-				
W D	-		*** 11 1 1 1	3.6.1	C 1 1
	,	Fan remnants	Well drained	Moderate	Sandy Ioam
2	1 ±				
WrR	1 '	Rackslone	Well drained	Moderate	Sandy loam
WID	1	Dackstope	Wen drained		Sandy Idam
	-				
	r			slow (Rocklin)	
WmC	Snelling sandy loam, 3 to 8 percent slopes Snelling sandy loam, poorly drained variant, 0 to 1 percent slopes Tujunga loamy sand, 0 to 3 percent slopes Whitney sandy loams, 3 to 8 percent slopes Whitney sandy loams, 8 to 15 percent slopes Whitney sandy loams, 8 to 15 percent	Fan remnants	Well drained Well drained	Moderately slow Moderately slow Very rapid Moderate Moderate Moderate Moderate Moderate Moderate Moderate (Whitney); moderately	Sandy loa Sandy loa Sandy loa

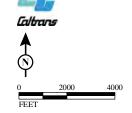




Map Index

Soil Units EA: 10-0S800, Project ID # 1000000263 North County Corridor New State Route 108 Project Stanislaus County, California





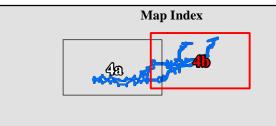


FIGURE 4b

Soil Units EA: 10-0S800, Project ID # 1000000263 North County Corridor New State Route 108 Project Stanislaus County, California

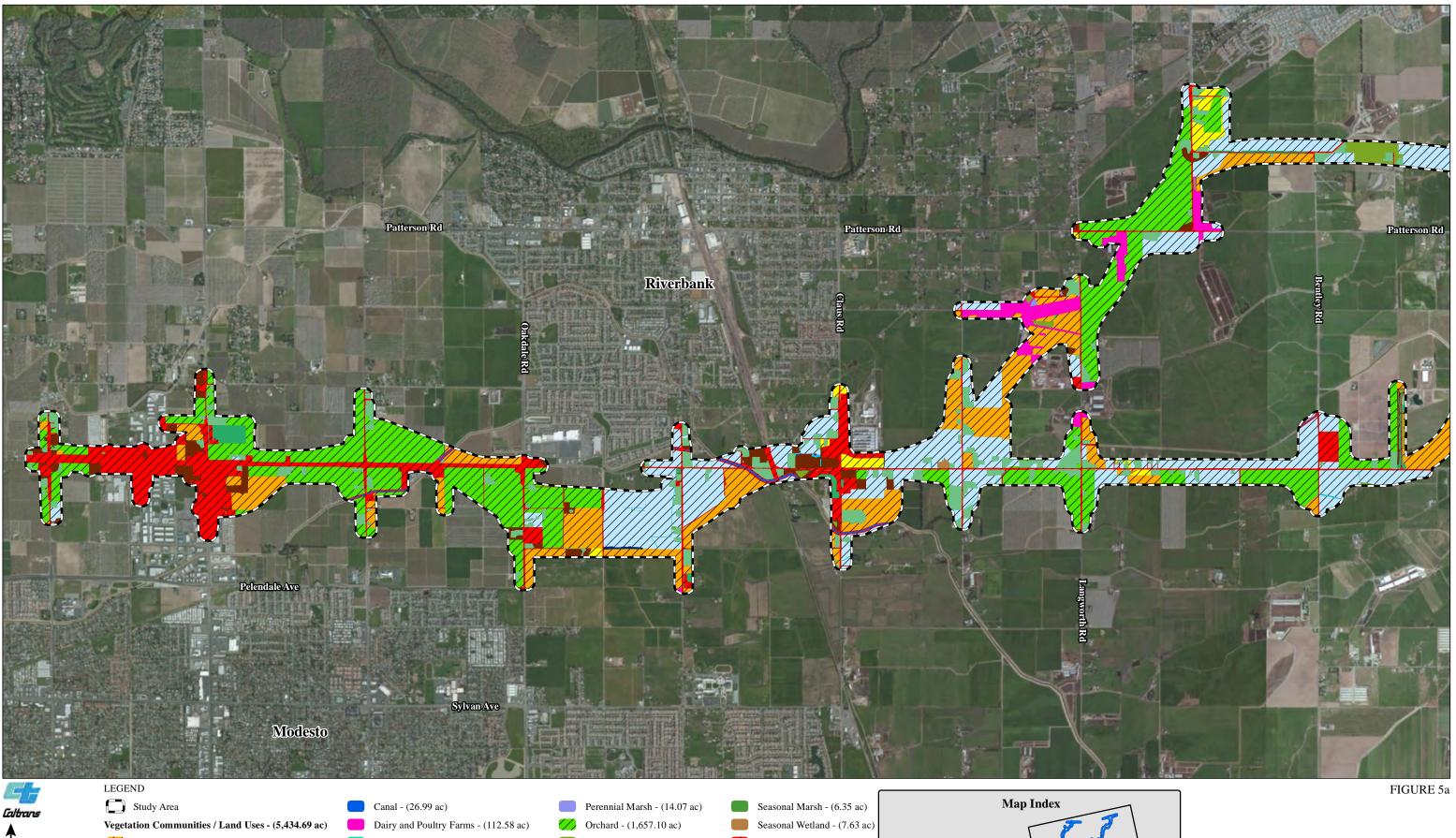
2.5. Vegetation Communities and Land Uses

Vegetation communities and land uses in the study area include eight natural communities: interior live oak woodland, blue oak savannah, annual grassland, Himalayan blackberry bramble, perennial marsh, seasonal marsh, riparian scrub, and seasonal wetlands. Eleven other vegetation communities and land uses not considered natural are also present: ponds/basin, ruderal, agricultural, orchard, irrigated pasture, canal, ditch, dairy and poultry farms, landscaped, rural residential and urban. Vegetation communities/land uses are summarized in Table 2 and shown in Figures 5a and 5b.

These classifications were identified and described by ICF International (ICF) (2012) during a previous mapping effort for the NCC. The classifications were updated by LSA Associates, Inc. during the 2014 field effort to reflect current conditions in the study area and account for changes to the project design (which resulted in changes to the study area).

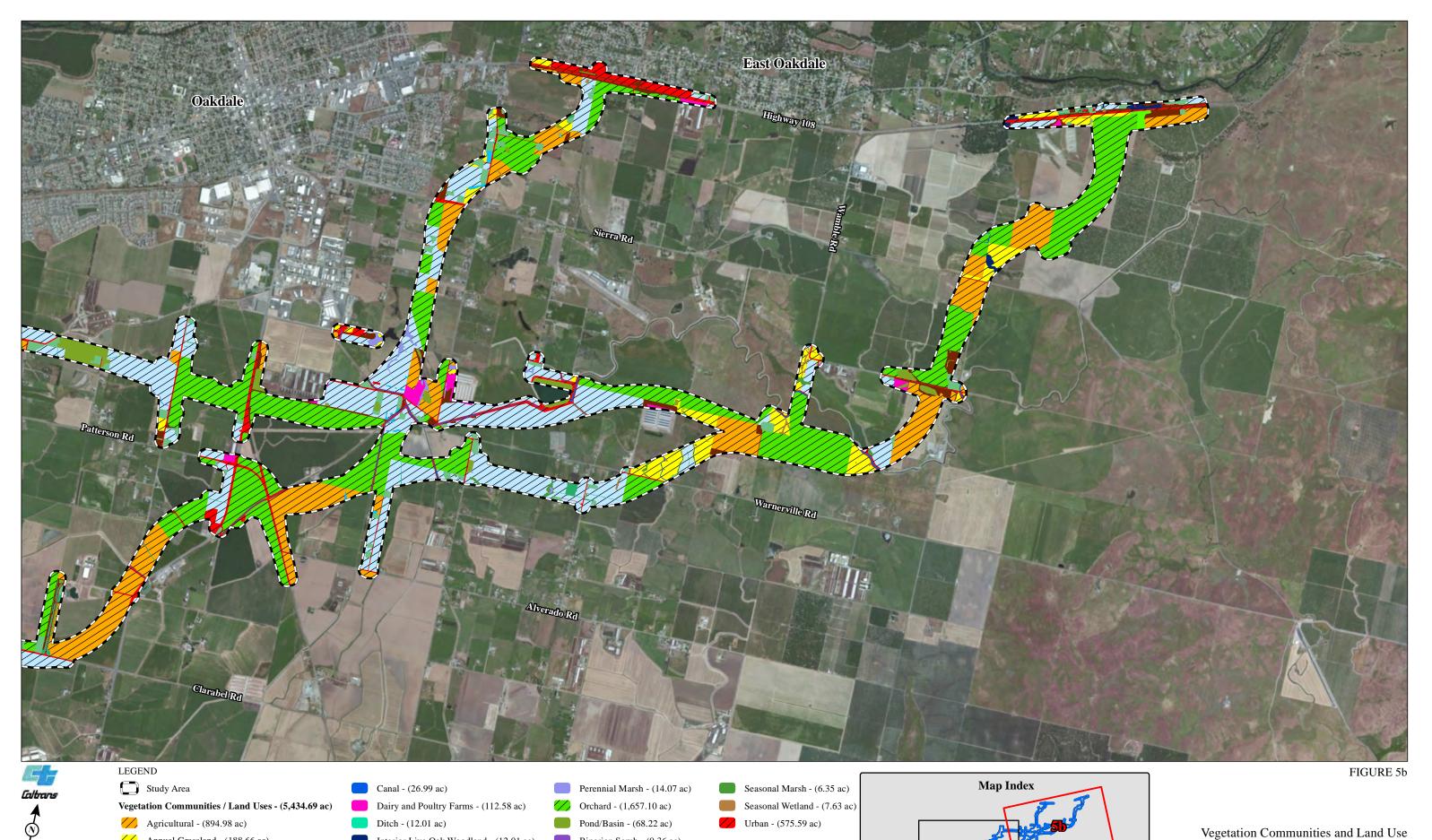
Table 2: Vegetation Communities and Land Uses

Natural Communities	Acres
Interior live oak woodland	12.01
Blue oak savannah	5.08
Annual grassland	188.66
Himalayan blackberry bramble	7.06
Perennial marsh	14.14
Seasonal marsh	6.35
Riparian scrub	0.36
Seasonal wetland	7.63
Subtotal	241.29
Other Vegetation Communities/Land Uses	
Ruderal	184.73
Agricultural	894.98
Orchard	1,657.10
Irrigated pasture	1,301.81
Pond/basin	68.22
Canal	26.71
Ditch	12.07
Dairy and poultry farms	112.58
Landscaped	39.02
Rural residential	320.45
Urban	575.73
Subtotal	5193.40
Total	5,434.69



Agricultural - (894.98 ac) Ditch - (12.01 ac) Pond/Basin - (68.22 ac) Urban - (575.59 ac) Vegetation Communities and Land Use // Annual Grassland - (188.66 ac) Interior Live Oak Woodland - (12.01 ac) Riparian Scrub - (0.36 ac) EA: 10-0S800, Project ID # 1000000263 Himalayan Blackberry Bramble - (7.06 ac) Ruderal - (184.73 ac) // Irrigated Pasture - (1,301.81 ac) North County Corridor New State Route 108 Project Blue Oak Savannah - (5.08 ac)

SOURCE: Basemap - ESRI Aerial Imagery (2011); Mapping - ICF (2011); LSA Associates, Inc. (2014)
I\Dhg1302\GIS\Reports\Delin\fig5_delin_land_cover.mxd (10/10/2014) Landscaped - (39.02 ac) Rural Residential - (320.45 ac) Stanislaus County, California



Annual Grassland - (188.66 ac)

Interior Live Oak Woodland - (12.01 ac)

Annual Grassland - (188.66 ac)

Interior Live Oak Woodland - (12.01 ac)

Riparian Scrub - (0.36 ac)

EA: 10-0S800, Project ID # 1000000263

Ruderal - (184.73 ac)

North County Corridor New State Route 108 Project

Blue Oak Savannah - (5.08 ac)

SOURCE: Basemap - ESRI Aerial Imagery (2011); Mapping - ICF (2011); LSA Associates, Inc. (2014)

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2.5.1. Natural Communities

Interior Live Oak Woodland

The interior live oak woodland occurs in two locations at the east end of the biological study area (BSA). This community is dominated by interior live oak (*Quercus wislizeni*) but Valley oaks (*Quercus lobata*) are found in a ditch that occurs where the woodland adjoins with the current SR-108. The understory is dominated by invasive grasses. Interior live oak woodland occurs on the east end of the BSA, where Alternatives 1B and 2B abut Highway 120. Interior live oak woodland also occurs approximately 1 mi south of where Alternatives 1B and 2B meet with Highway 120.

Interior live oak woodland provides suitable nesting habitat for the white tailed kite (Elanus leucurus), Swainson's hawk (Buteo swainsoni), red-tailed hawk (Buteo jamaicensis), and other nesting birds. Oak trees may be used by the pallid bat (Antrozous pallidus), silver haired bat (Lasionycteris noctivagans), western red bat (Lasiurus blossevillii), hoary bat (Lasiurus cinereus) and the western mastiff bat (Eumops perotis). Mammals such as coyote (Canis latrans) and the red fox (Vulpes vulpes) may also be observed in this community.

Annual Grassland

Annual grasslands occur throughout the study area, but are found in larger areas in the eastern half of the study area. This community includes annual brome grassland, wild oat grassland and perennial rye grass fields. Dominant species include wild oat (Avena fatua), ripgut brome (Bromus diandrus), soft chess (Bromus hordeaceus), Italian rye grass (Festuca perenne), foxtail barley (Hordeum murinum) and rattail sixweeks grass (Festuca myuros). common fiddleneck (Amsinckia menziesii), Italian thistle (Carduus pycnocephalus), field chickweed (Cerastium arvense), cutleaf geranium (Geranium dissectum) and milk thistle (Silybum marianum) also occur in this community.

Annual grasslands can provide suitable habitat for western burrowing owl (*Athene cunicularia*), if suitable burrows are present. Several bird species may forage in the annual grasslands including Swainson's hawk. If suitable aquatic habitat is nearby, Pacific pond turtles (*Emys marmorata*) may use annual grasslands as upland habitat.

Blue Oak Savannah

Blue oak savannah occurs at one location at the east end of the study area, where Alternatives 1B and 2B abut Highway 120. The dominant overstory species is blue

oak (*Quercus douglasii*). The understory is dominated by native saxifrage (*Lithophragma affine*), elegant clarkia (*Clarkia unguiliculata*), and other annual forbs and grasses.

Blue oak savannah habitat value is similar to the interior live oak woodland community in the study area.

Himalayan Blackberry Bramble

Himalayan blackberry bramble occurs in large patches adjacent to the riparian woodland and annual grassland west of Stearns Road and north of Sierra Road. Himalayan blackberry (*Rubus armeniensis*) is the dominant species in this community.

Large areas of blackberry bramble provide suitable nesting habitat for tricolored blackbirds (*Agelaius tricolor*).

Perennial Marsh

Perennial marshes occur primarily in the central and eastern half of the study area. Dominant species include low manna grass (*Glyceria declinata*), soft rush (*Juncus effusus*), knotweed (*Polygonum* sp.), Himalayan blackberry, curly dock (*Rumex crispus*), common tule (*Schoenoplectus acutus occidentalis*), narrow-leaved cattail (*Typha angustifolia*) and broad-leaved cattail (*Typha latifolia*).

Perennial marsh habitat, with sufficient open water, may provide suitable habitat for California tiger salamander (*Ambystoma californiense*) (CTS), western spadefoot toad (*Spea hammondii*), and Pacific pond turtle. Western yellow billed cuckoo (*Coccyzus americanus*) and other bird species may forage in the perennial marsh habitat.

Seasonal Marsh

Seasonal marshes occur in the western and central section of the study area, adjacent to the irrigated pastures and annual grasslands. Dominant species include amaranth (*Amaranthus* sp.), nutsedge (*Cyperus eragrostis*), soft rush, sprangletop (*Leptochloa* sp.), water primrose (*Ludwigia peploides*), dallis grass (*Paspalum dilatatum*), knotweed, Himalayan blackberry and broad-leaved cattail.

Seasonal marshes provide cover and foraging habitat for many small birds and mammals. They may also provide suitable habitat for vernal pool invertebrates, including vernal pool tadpole shrimp (*Lepidurus packardi*) and vernal pool fairy shrimp (*Branchinecta lynchi*).

Riparian Scrub

Riparian scrub occurs in three small areas in the central part of the BSA, west of South Stearns Road and north of Sierra Road, and in one location along a concrete canal, adjacent to orchards, near the west end of the BSA. This community consists entirely of narrow-leaved willow (*Salix exigua*).

The small amount of riparian scrub provides suitable upland habitat for Pacific pond turtle. It also provides suitable nesting habitat for white tailed kite and other nesting birds. Cavities and foliage may also provide suitable roosting habitat for multiple bat species.

Seasonal Wetland

Seasonal wetlands typically occur in topographically low-lying areas within annual grasslands and ditches and occur throughout the study area. Dominant species observed were water starwort (*Callitriche* sp.), nutsedge, three-spiked goose grass (*Eleusine tristachya*), creeping spikerush (*Eleocharis macrostachya*), coyote thistle (*Eryngium* sp.), low manna grass, and velvet grass (*Holcus lanatus*). Additional species include Italian rye grass, water primrose, hyssop loosestrife (*Lythrum hyssopifolia*), annual blue grass (*Poa annua*), rabbitsfoot grass (*Polypogon monspeliensis*), buttercup (*Ranunculus* sp.), Himalayan blackberry, and fiddle dock (*Rumex pulcher*). Seasonal wetlands do not remain inundated for long periods of time during the growing season.

Some seasonal wetlands may provide suitable habitat for vernal pool invertebrates. Larger features may provide suitable habitat for CTS and western spadefoot toad, depending on the length of inundation.

2.5.2. Other Vegetation Communities / Land Uses

Ruderal

Ruderal vegetation occurs throughout the study area, typically areas along roadsides, buildings, and dirt roads. Ruderal plants are those that colonize and quickly establish in poor soils and disturbed or waste areas. They generally have fast growing roots, low nutritional needs, and produce massive amounts of seeds. Dominant species include invasive annual grasses and weedy forbs.

If suitable burrows are present, ruderal sites may provide suitable habitat for western burrowing owl. Many species of birds may use ruderal vegetation for foraging,

including Swainson's hawk, red-tailed hawk, red-winged blackbirds (*Agelaius phoeniceus*), and tricolored black birds.

Agricultural

Agricultural fields occur throughout the study area and include row crops, alfalfa, rice fields and grains. Agricultural fields may be disked or left fallow for part of the year. Ruderal and invasive species occur along the edges and in open areas that have not been plowed.

Agricultural fields provide suitable foraging habitat for Swainson's hawks, white tailed kites and other bird species.

Orchard

Orchards occur throughout the study area and are comprised of monotypic and tree dominated habitats, although some areas contain vineyards. Generally this community is sprinkler irrigated and intensively managed. The understory is either bare ground or annual grasses and forbs.

Orchards may provide suitable foraging habitat for Swainson's hawks and other raptors. Western red bats and hoary bats may also utilize orchards as roosting sites.

Irrigated Pasture

Irrigated pastures occur throughout the study area and are grassland areas that receive irrigated water to support pastures for livestock. Dominant plants include Bermuda grass (*Cynodon dactylon*), tall fescue (*Festuca arundinacea*), English plantain (*Plantago lanceolata*), annual blue grass, knotroot bristle grass (*Setaria parviflora*) and subterranean clover (*Trifolium subterraneum*).

This community is not considered suitable for fossorial mammals or other species that utilize burrows due to the flooded that occurs from early spring through fall. However, several bird species may forage in irrigated pasture, including Swainson's hawks, red-tailed hawks, and great horned owls (*Bubo virginianus*).

Pond and Basin

This community consists of natural and created ponds or basins that occur throughout the study area. Most of the ponds are utilized as detention basins, however some are dairy, catfish or other fish-rearing ponds. Dominant vegetation consists of Bermuda grass, Italian rye grass and knotweed.

Some ponds within the study area may provide suitable habitat for CTS and Pacific pond turtles. If fish are present, osprey (*Pandion haliaetus*) may be observed foraging in this community.

Canal

Canals consist of all manmade linear water conveyance features that are contained within levees. Canals are generally much larger than features identified as ditches. Canals are located throughout the study area and generally provide little value as wildlife habitat; however, Pacific pond turtles and other aquatic species could utilize the canals.

Ditch

Ditches consist of all non-leveed water conveyance channels and include roadside, agricultural, and natural drainage features. Several of these ditches support wetland vegetation that may vary from perennial to seasonal. These ditches occur throughout the study area, but are more heavily concentrated in the central portion. Similar to canals, ditches generally provide little value as wildlife habitat but could be used by Pacific pond turtles and other aquatic species.

Dairy and Poultry Farms

This land use includes structures and disturbed areas associated with dairy and poultry farms. This area supports little to no vegetation, however some ruderal species were observed.

Landscaped

Landscaped areas contain ornamental trees, shrubs and forbs. This community occurs throughout the study area and is interspersed with residential and commercial areas. Eucalyptus (*Eucalyptus* sp.) and cottonwood (*Populus* sp.) rows are included in this community.

Landscaped vegetation provides suitable nesting habitat for various bird species, including yellow warbler (*Setophaga petechia*) and Swainson's hawk. Some ornamental trees may also provide roosting habitat for the western red bat and hoary bat.

Rural Residential

This land use includes ranches or houses that are surrounded by large natural areas. Rural residences occur throughout the study area and contain primarily landscaped and ruderal vegetation.

Blue elderberry (*Sambucus nigra* ssp. *caerulea*) shrubs, habitat for the valley elderberry longhorn beetle (*Desmocerus californicus dimorphus*), were observed around rural residences.

Urban

This community is comprised of dense housing, industrial and commercial buildings. Paved roadways and dirt roads occur throughout urban areas. Any vegetation in this land use is ruderal or landscaped.

Urban development is not considered to be suitable habitat for wildlife species.

Chapter 3. Regulatory Background

The USACE regulates discharges of dredged or fill material into waters of the U.S. These waters include wetlands and non-wetland waters, as described below. The USACE typically regulates as waters of the U.S. any body of water displaying an ordinary high water mark (OHWM). USACE jurisdiction over nontidal waters of the U.S. extends laterally to the OHWM or beyond the OHWM to the limit of any adjacent wetlands, if present (33 CFR 328.4). The OHWM is defined as "...that line on the shore established by the fluctuations of water and indicated by physical characteristics such as a clear natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding area" (33 CFR 328.3). USACE jurisdiction typically extends upstream to the point where the OHWM is no longer perceptible.

3.1. Wetlands

Wetland delineations for Section 404 purposes must be conducted according to the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0) (Arid West Supplement) (USACE 2008) and the Army Corps of Engineers 1987 Wetland Delineation Manual (Environmental Laboratory 1987). Where there are differences between the two documents, the Regional Supplement takes precedence over the 1987 Manual.

The USACE and United States Environmental Protection Agency (EPA) define wetlands as follows:

"Those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted to life in saturated soil conditions."

To be considered a jurisdictional wetland under Section 404, an area must possess three wetland characteristics: hydrophytic vegetation, hydric soils, and wetland hydrology. Each characteristic has a specific set of mandatory wetland criteria that must be satisfied for that particular wetland characteristic to be met. Several indicators may be analyzed to determine whether the criteria are satisfied.

3.1.1. Hydrophytic Vegetation

Hydrophytic vegetation is plant life that grows and is typically adapted for life in permanently or periodically saturated soils. The hydrophytic vegetation criterion is met if more than 50 percent of the dominant plant species from all strata (tree, shrub, herb, and woody vine layers) are considered hydrophytic. Hydrophytic species are those included on the Arid West 2014 Final Regional Wetland Plant List (Lichvar 2014), published by the USACE. Each species on that list is rated according to a wetland indicator category, as shown in Table 3. To be considered hydrophytic, the species must have a wetland indicator status (i.e., be rated as OBL, FACW, or FAC).

Category	Rating	Probability
Obligate Wetland	OBL	Almost always occur in wetlands (estimated probability >99%)
Facultative Wetland	FACW	Usually occur in wetlands (estimated probability 67%-99%)
Facultative	FAC	Equally likely to occur in wetlands and nonwetlands (estimated probability 34%-66%)
Facultative Upland	FACU	Usually occur in nonwetlands (estimated probability 67%-99%)
Obligate Upland	UPL	Almost always occur in nonwetlands (estimated probability >99%)

Table 3: Hydrophytic Vegetation

To be considered hydrophytic, the species must have wetland indicator status, i.e., be rated as OBL, FACW, or FAC.

The delineation of hydrophytic vegetation is typically based on the most dominant species from each vegetative stratum (strata are considered separately). When more than 50 percent of these dominant species are hydrophytic (i.e., FAC, FACW, or OBL), the vegetation is considered hydrophytic. In particular, the USACE recommends the use of the "50/20" rule (also known as the dominance test) from the Regional Supplement for determining dominant species. Under this method, dominant species are the most abundant species that immediately exceed 50 percent of the total dominance measure for the stratum, plus any additional species composing 20 percent or more of the total dominance measure for the stratum. In cases where indicators of hydric soil and wetland hydrology are present but the vegetation initially fails the dominance test, the prevalence index must be used. The prevalence index is a weighted average of all plant species within a sampling plot. The prevalence index is particularly useful when communities only have one or two

dominants, where species are present at roughly equal coverage, or when strata differ greatly in total plant cover. In addition, USACE guidance provides that morphological adaptations may be considered when determining hydrophytic vegetation when indicators of hydric soil and wetland hydrology are present (USACE 2008). If the plant community passes either the dominance test or prevalence index after reconsideration of the indicator status of any plant species that exhibit morphological adaptations for life in wetlands, then the vegetation is considered hydrophytic.

3.1.2. Hydric Soil

Hydric soils¹ are defined as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part.² Soils are considered likely to meet the definition of a hydric soil when one or more of the following criteria are met:

- 1. All Histels except Folistels and Histosols except Folists;
- 2. Soils that are frequently ponded for a long duration or very long duration³ during the growing season; or
- 3. Soils that are frequently flooded for a long duration or very long duration during the growing season.

Hydric soils develop under conditions of saturation and inundation combined with microbial activity in the soil that causes a depletion of oxygen. While saturation may occur at any time of year, microbial activity is limited to the growing season, when soil temperature is above biologic zero (the soil temperature at a depth of 20 inches, below which the growth and function of locally adapted plants are negligible). Biogeochemical processes that occur under anaerobic conditions during the growing season result in the distinctive morphologic characteristics of hydric soils. Based on these criteria, a National List of Hydric Soils was created from the National Soil Information System database and is updated annually.

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¹ The hydric soil definition and criteria included in the 1987 Manual are obsolete. Users of the Manual are directed to the United States Department of Agriculture Natural Resources Conservation Service website for the most current information on hydric soils.

² Current definition as of 1994 (Federal Register [FR] July 13, 1994).

³ A long duration is defined as a single event ranging from 7 to 30 days. A very long duration is defined as a single event that lasts longer than 30 days.

3.1.3. Hydrology

Under natural conditions, development of hydrophytic vegetation and hydric soils is dependent on a third characteristic: wetland hydrology. Areas with wetland hydrology are those where the presence of water has an overriding influence on vegetation and soil characteristics due to anaerobic and reducing conditions, respectively (Environmental Laboratory 1987). The wetland hydrology parameter is satisfied if the area is seasonally inundated or saturated to the surface for a minimum of 14 consecutive days during the growing season in most years (USACE 2008).

Hydrology is often the most difficult criterion to measure in the field due to seasonal and annual variations in water availability. Indicators commonly used to identify wetland hydrology include visual observation of inundation or saturation, watermarks, recent sediment deposits, surface scour, and oxidized root channels (rhizospheres) resulting from prolonged anaerobic conditions.

3.2. Non-wetland Waters

Non-wetland waters essentially include any body of water, not otherwise exempted, that displays an OHWM.

Chapter 4. Methodology

The approach to this jurisdictional delineation was developed with the intent to request a Preliminary Jurisdictional Delineation from the USACE pursuant to Regulatory Guidance Letter 08-02 (June 2008).

4.1. Field Investigation

Field investigation was conducted during site visits on March 12-14, 2014, April 15, 16, and 22, 2014, and June 6, 2014, by LSA biologists Mike Trueblood and Dayna Winchell. Where right of entry was granted (see Section 4.2 below), the study area was surveyed on foot referencing a March 2011 color aerial photo.

A routine approach, as described in the 1987 Manual, was employed for the delineation, supplemented by the procedures and wetland indicators described in the Arid West Supplement. The method for large areas (i.e., greater than 5 ac), consisting of establishment of a baseline and uniform transects, was initially considered for the study area. However, based on review of the aerial photos and reconnaissance field data, it was clear that the majority of potential waters of the U.S. in the study area were located in the drainages and swales, or were randomly spread throughout the study area. Consequently, use of the routine approach for large areas was not appropriate.

A total of 49 formal observation points were described in the field. Most data points were paired, with an upland point directly adjacent to a wetland point. At each point, a pit was dug (if necessary), and soils and hydrology examined. Soils were not examined in detail at every location, as sites dominated by wetland vegetation were occasionally inundated or saturated at the surface, supporting a conclusion of an aquic moisture regime. Copies of the wetland data forms are included in Appendix B. Representative photos were taken at most data points, and are included in Appendix C.

Potential waters of the U.S. were mapped in the field using a Geographic Positioning System unit with submeter accuracy. All data was entered into a Geographic Information System (GIS) database to calculate the extent of potential waters of the U.S. in the study area and to produce the final mapping. Final mapping was completed using the aforementioned aerial photo at a scale of 1 inch = 500 feet.

4.2. Previous Studies/Coordination

A portion of the study area was previously delineated by ICF in 2011. Material available for review from this effort included GIS shapefiles of preliminary delineation mapping and associated data forms. Documentation of coordination with staff from the USACE, the EPA, and Caltrans was also available.

4.3. Access

Right of entry was granted for the majority of the properties within the study area that supported potential jurisdictional waters (as determined by aerial photo review and reconnaissance surveys). Assessment of properties where right of entry was not granted, and that supported potential jurisdictional waters, consisted of a combination of field level review from the public right of way (i.e., "looking over the fence") and current and historic aerial photo review.

4.4. Irrigated Pasture Wetlands

Potential wetlands in irrigated pasture were assessed in accordance with the USACE Sacramento District's Regulatory Branch Memorandum 2007-01 (USACE 2007) on irrigated wetlands. Methods included aerial photo review followed by ground-truthing, as necessary. This approach is consistent with recommendations provided during an April 10, 2012 field meeting (attendees included Leah Fisher, USACE Sacramento District; Clifton Meek, EPA, Region 9, Frank Meraz, Caltrans Central Region; and ICF botanists, Lisa Webber and John Holson) and additional information from Ms. Fisher and Mike Finan, USACE, Sacramento District (Fisher, pers. comm.).

Chapter 5. Results

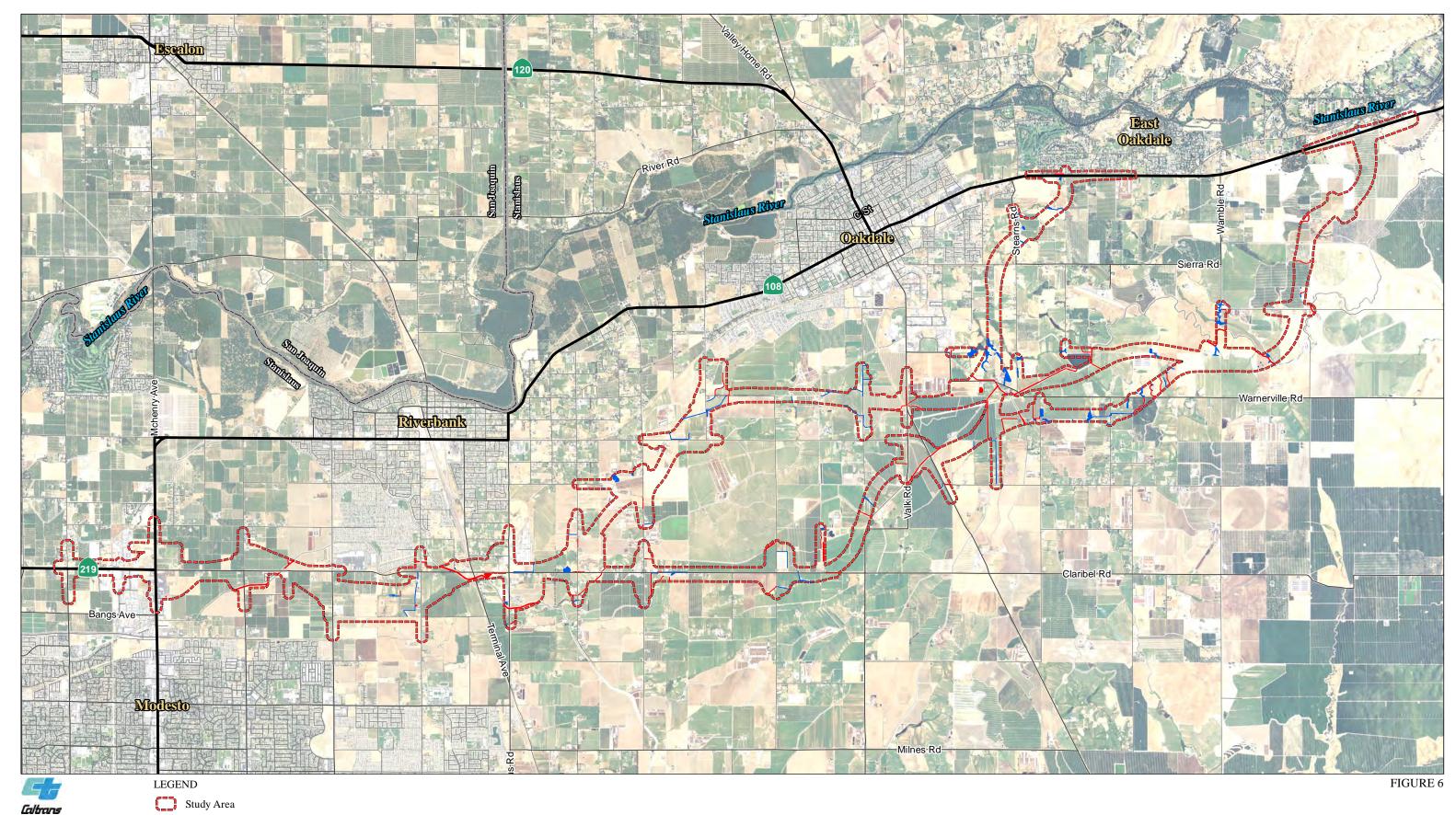
Features potentially meeting USACE criteria for wetlands or other waters of the U.S. in the study area include seasonal wetlands, perennial marsh, ditches, ponds, canals, and irrigated wetlands. These feature classes are described below and summarized in Table 4. An overview of the delineation is shown in Figure 6 and detailed delineation maps are included in Appendix A (as noted in Chapter 4, wetland data forms and representative photos are included in Appendices B and C, respectively). Appendix A also includes a listing of each feature, the feature class, wetlands status, and acreage. A summary table by build alternative is included in Appendix D.

Table 4: Summary of Potential Waters of the U.S. in the Study Area (acres)

Feature Class	Wetlands	Non-Wetland Waters	Total
Seasonal Wetland	10.23		10.23
Perennial Marsh	14.14		14.14
Ditches	7.31	4.76	12.07
Ponds	10.12	5.83	15.95
Canals		26.71	26.71
Irrigated Wetlands	3.75		3.75
Total	45.55	37.30	82.85

Two current Caltrans projects, the SR-219 Widening Project and the Claribel Widening Project, overlap a portion of the western limits of the BSA. The limits of these projects are labeled as "Not a Part of Study Area" and are shown in Appendix A, Figures A-1 and A-2 (SR-219 Widening) and A-2, A-3, and A-4 (Claribel Widening). Potential waters of the U.S. within these areas were previously evaluated in a Natural Environment Study (NES) prepared for each project.

The NES for the SR-219 Widening Project (dated October 2001) identified a retention basin and Chapel Ditch, a concrete lined canal. Per discussions with Kathy Norton of the Army Corps of Engineers on March 9, 2000, the retention basin was determined not to be a water of the U.S., but Chapel Ditch was determined to be a water of the U.S. because it connects with Lateral No. 6 canal, which ultimately connects to the Tuolumne River.



0 0.5 1

Potential Jurisdictional Waters of the U.S. - (82.85 ac)

S Wetlands - (45.55 ac)

Non-Wetland Waters - (37.30 ac)

Preliminary Jurisdictional Delineation Overview
EA: 10-0S800, Project ID # 1000000263
North County Corridor New State Route 108 Project
Stanislaus County, California

The NES for the Claribel Widening Project (dated August 2011) determined that there were no waters of the U.S. within the project area. The jurisdictional delineation and field survey were conducted by Chuck Hughes, M.S., Botanist/ Biologist/ Professional Wetland Scientist #2029 and Jessica Easley, Biologist.

Seasonal Wetlands

This feature class occurs throughout the study area but is more prevalent in the eastern portion. In general, common hydrophytes identified in the seasonal wetlands include low mana grass (*Glyceria declinata*) – FACW, knotweed –OBL, buttercup – OBL, needle spikerush (*Eleocharis acicularis*) – OBL, smooth goldfields (*Lasthenia glaberrima*) – OBL, curly dock – FAC, and hyssop loosestrife – OBL, which are all known to occur in seasonal wetland conditions. Soils in these features contained noticeably reduced chroma and consistently supported redoxomorphic concentrations in the matrix. Hydrology indicators were generally identified by either inundation/saturation on aerial imagery or by matted vegetation and drainage patterns. For purposes of the preliminary jurisdictional delineation, areas of the seasonal marsh community described in Section 2.5.1. that meet USACE criteria for wetlands were included in the seasonal wetlands feature class. A total of 10.23 ac of seasonal wetlands occur in the study area.

5.1. Perennial Marsh

The majority of this feature class occurs along Stearns Road north of Warnerville Road in wide marshy areas dominated by broad-leaved cattail – OBL and common tule – OBL. The fringes of this community are often dominated by narrow-leaved willow (*Salix exigua*) – FACW. Perennial marsh also occurs in a few other isolated locations to the east and west of Stearns Road. Perennial marsh was typically inundated or saturated to the surface. A total of 14.14 ac of perennial marsh occur in the study area.

5.2. Ditches

Ditches consist of all non-leveed water conveyance channels and include roadside, agricultural, and natural drainage features. Several of these ditches support wetland vegetation that may vary from perennial (i.e., cattail marsh) to seasonal (i.e., rushes, nutsedges, knotweed, and a mix of annual grasses). These ditches occur throughout the study area, but are more heavily concentrated in the central portions. Soils in these

ditches tend to be consistent with seasonally wet soils (i.e., redoximorphic concentrations in the matrix). However, a few were deeply inundated at the time of the surveys and soils were too wet to identify any color variations in the soil. A total of 12.07 ac of ditches occur in the study area.

5.3. Ponds

The pond feature class consists of manmade ponds, most of which support wetlands. Several large ponds associated with dairy and poultry farms, and ponds associated with the irrigation districts, are not included in the mapping. The ponds that support wetlands tend to be perennial in nature and are generally associated with irrigation and/or stock ponds for cattle. Similar to the ditch feature class, ponds can be found throughout the study area but are more concentrated in the central portions. A total of 15.95 ac of ponds occur in the study area.

5.4. Canals

Canals consist of all manmade linear water conveyance features that are contained within levees. Canals are generally much larger than features identified as ditches. None of the canal features in the study area support wetlands. Canals are located throughout the study area. A total of 26.71 ac of canals occur in the study area.

5.5. Irrigated Wetlands

Irrigated wetlands consist of features located within irrigated pasture that meet USACE wetlands criteria. A total of 3.75 acres of irrigated wetlands occur in the study area.

Chapter 6. Conclusion

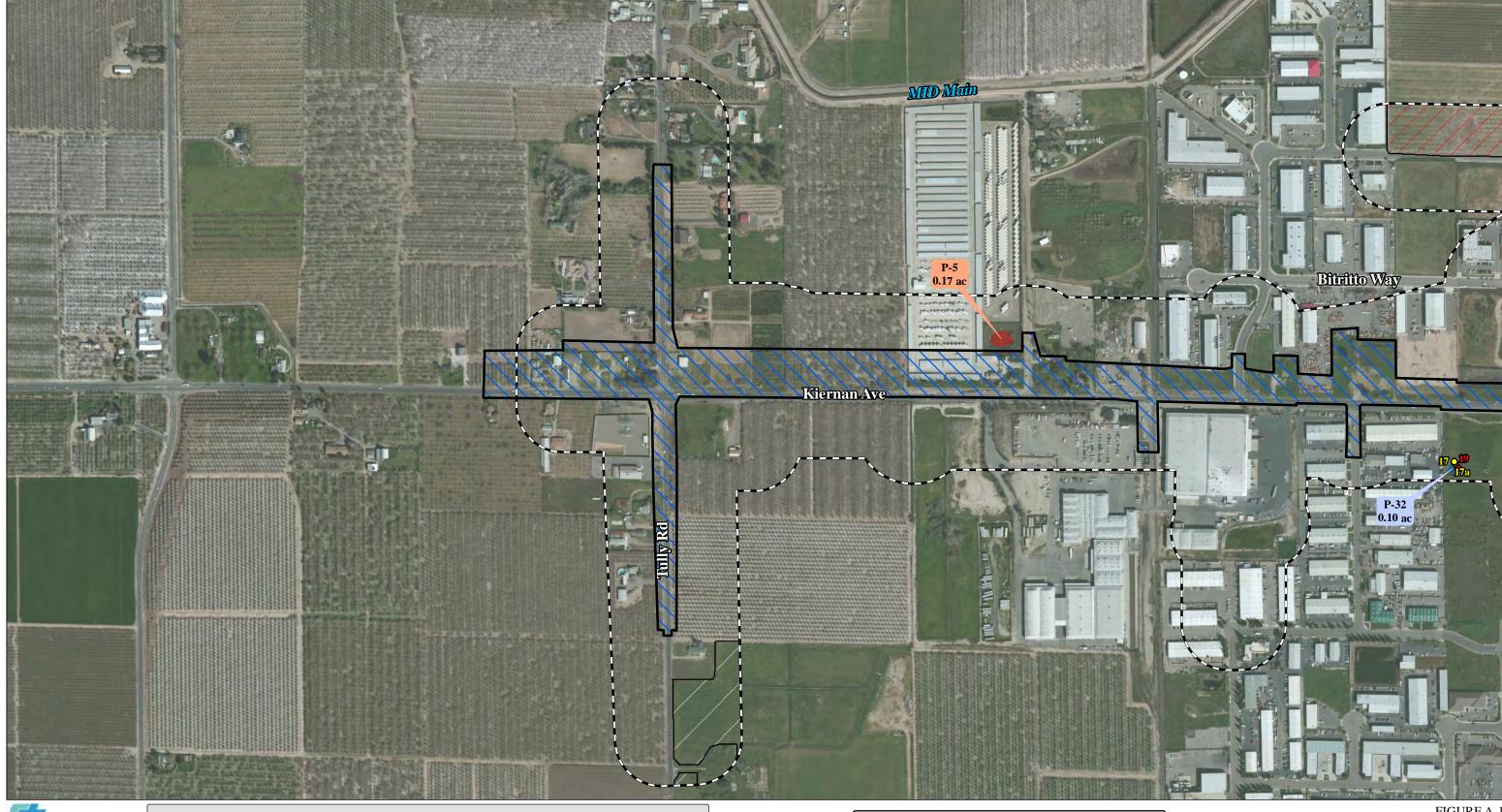
6.1. Conclusion

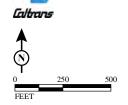
The study area encompasses a total of 82.85 acres of potential jurisdictional waters. These potentially jurisdictional features consist of approximately 45.55 acres of potential wetlands and approximately 37.30 acres of potential non-wetland waters.

Chapter 7. References

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Appendix A Delineation Maps / Potential Jurisdictional Waters Table





LEGEND

Study Area

Claribel Rd. Widening Project

SR-219 Widening Project

Converted to Orchard Irrigated Pasture

Wetlands - (45.55 ac) O Data Point

Potential Jurisdictional Waters of the U.S. - (82.85 ac)

Non-Wetland Waters - (37.30 ac)

Photo Point

Acronym Names

C - Canal D - Ditch

P - Pond

SW - Seasonal Wetland PM - Perennial Marsh

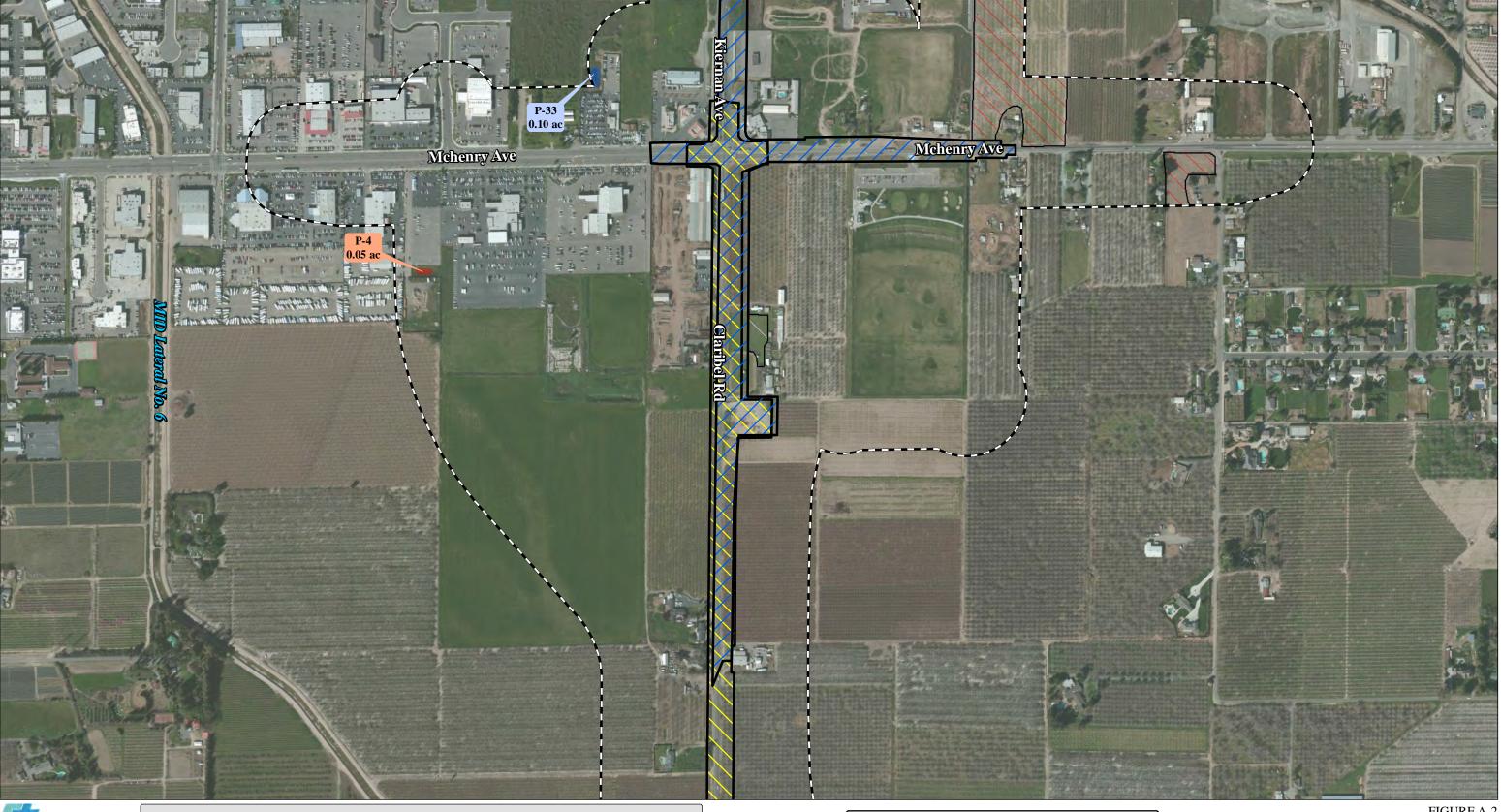
IW - Irrigated Wetland

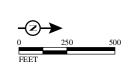


FIGURE A-1

Preliminary Jurisdictional Delineation

EA: 10-0S800, Project ID # 1000000263 North County Corridor New State Route 108 Project Stanislaus County, California





LEGEND

Study Area

Claribel Rd. Widening Project

SR-219 Widening Project

Converted to Orchard Irrigated Pasture

Potential Jurisdictional Waters of the U.S. - (82.85 ac)

Non-Wetland Waters - (37.30 ac) Wetlands - (45.55 ac)

O Data Point Photo Point Acronym Names

C - Canal D - Ditch

P - Pond

SW - Seasonal Wetland PM - Perennial Marsh

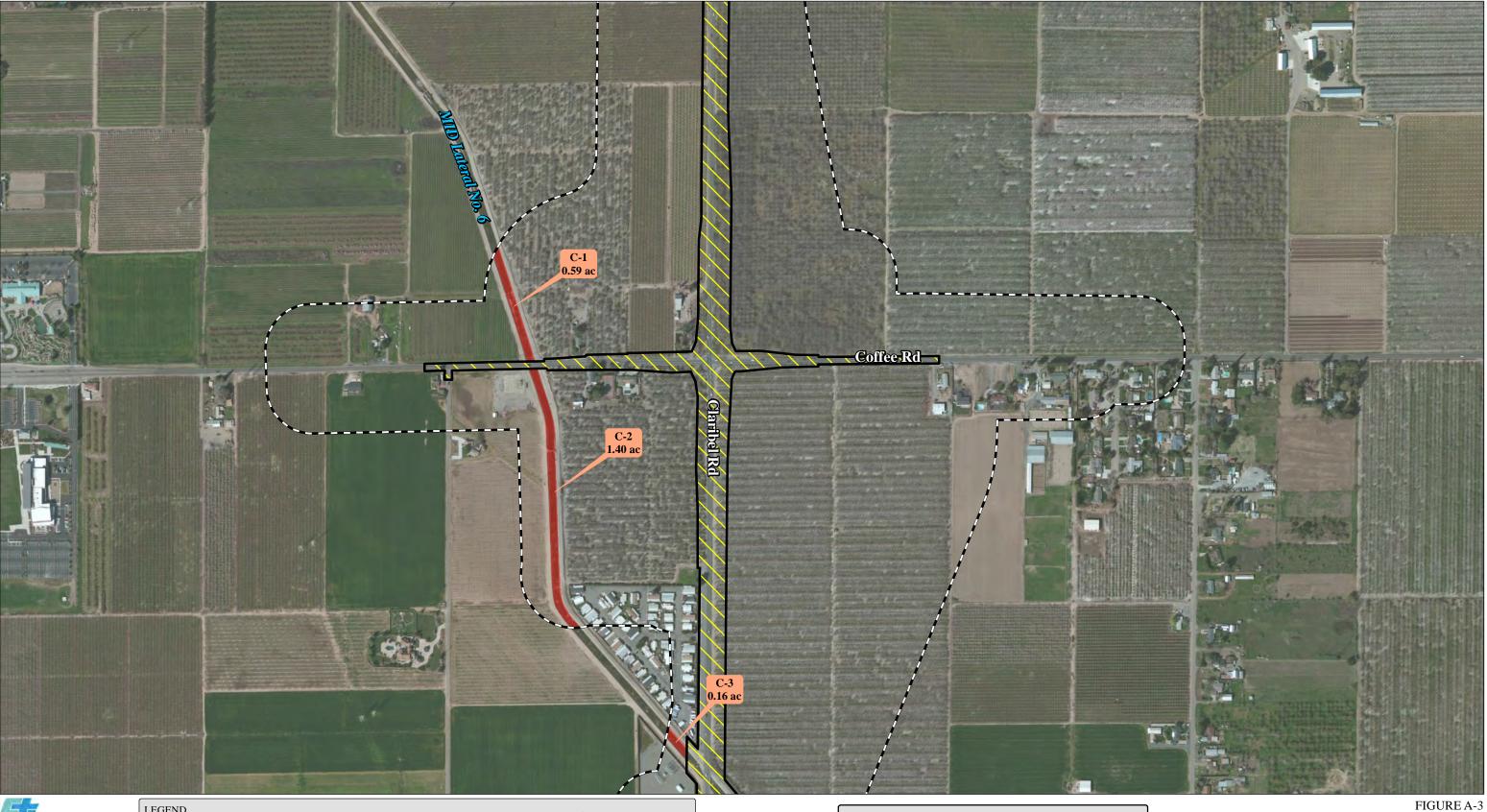
IW - Irrigated Wetland

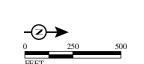


FIGURE A-2

Preliminary Jurisdictional Delineation

EA: 10-0S800, Project ID # 1000000263 North County Corridor New State Route 108 Project Stanislaus County, California





LEGEND

Study Area

Claribel Rd. Widening Project SR-219 Widening Project

Converted to Orchard Irrigated Pasture

Potential Jurisdictional Waters of the U.S. - (82.85 ac)

Non-Wetland Waters - (37.30 ac)

Wetlands - (45.55 ac)

Photo Point

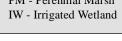
O Data Point

Acronym Names

C - Canal D - Ditch

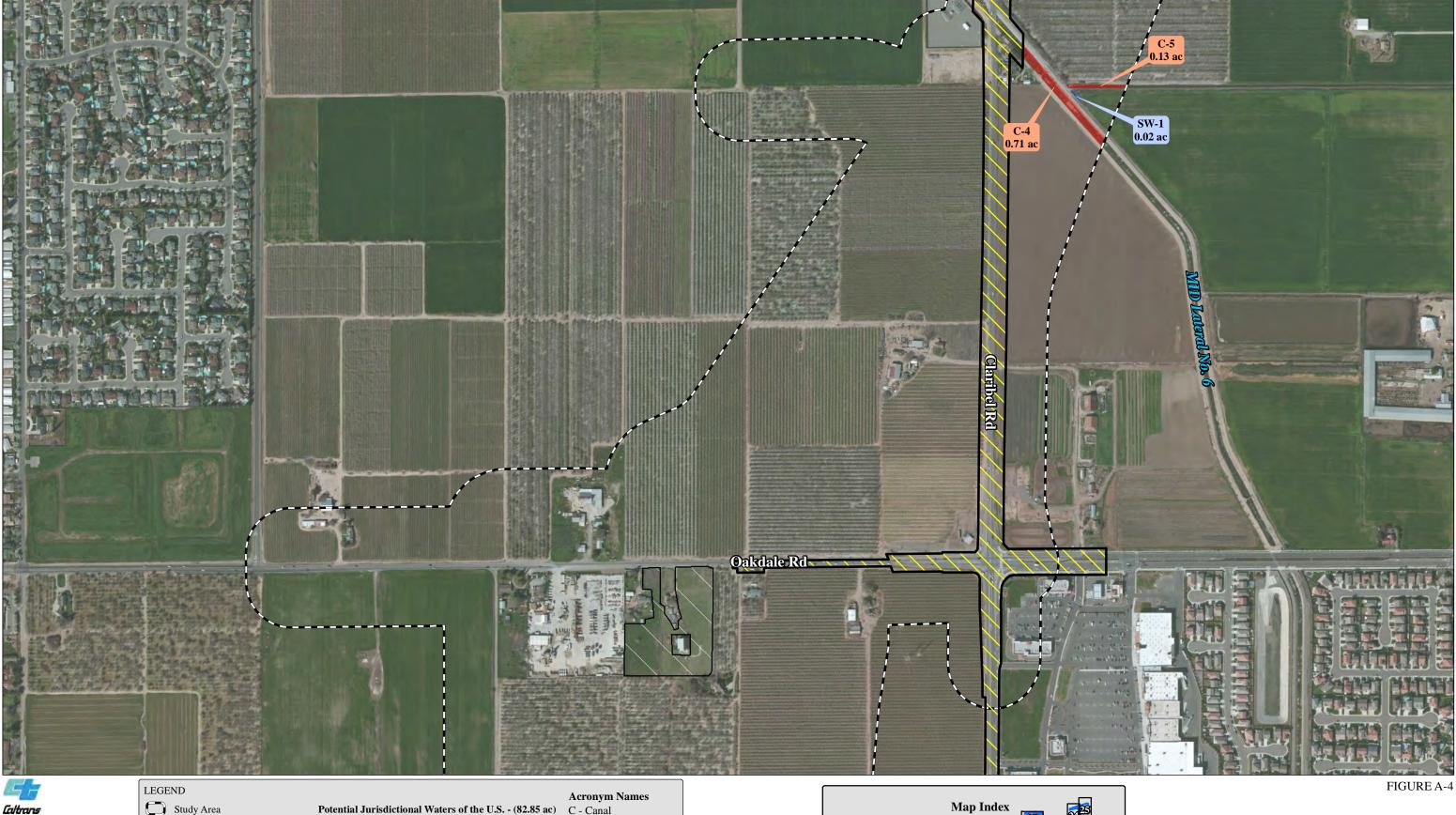
P - Pond

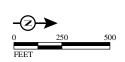
SW - Seasonal Wetland PM - Perennial Marsh





Preliminary Jurisdictional Delineation EA: 10-0S800, Project ID # 1000000263 North County Corridor New State Route 108 Project Stanislaus County, California





Study Area

Claribel Rd. Widening Project

SR-219 Widening Project

Converted to Orchard Irrigated Pasture

Potential Jurisdictional Waters of the U.S. - (82.85 ac)

Non-Wetland Waters - (37.30 ac)

Wetlands - (45.55 ac) O Data Point

Photo Point

C - Canal D - Ditch

P - Pond

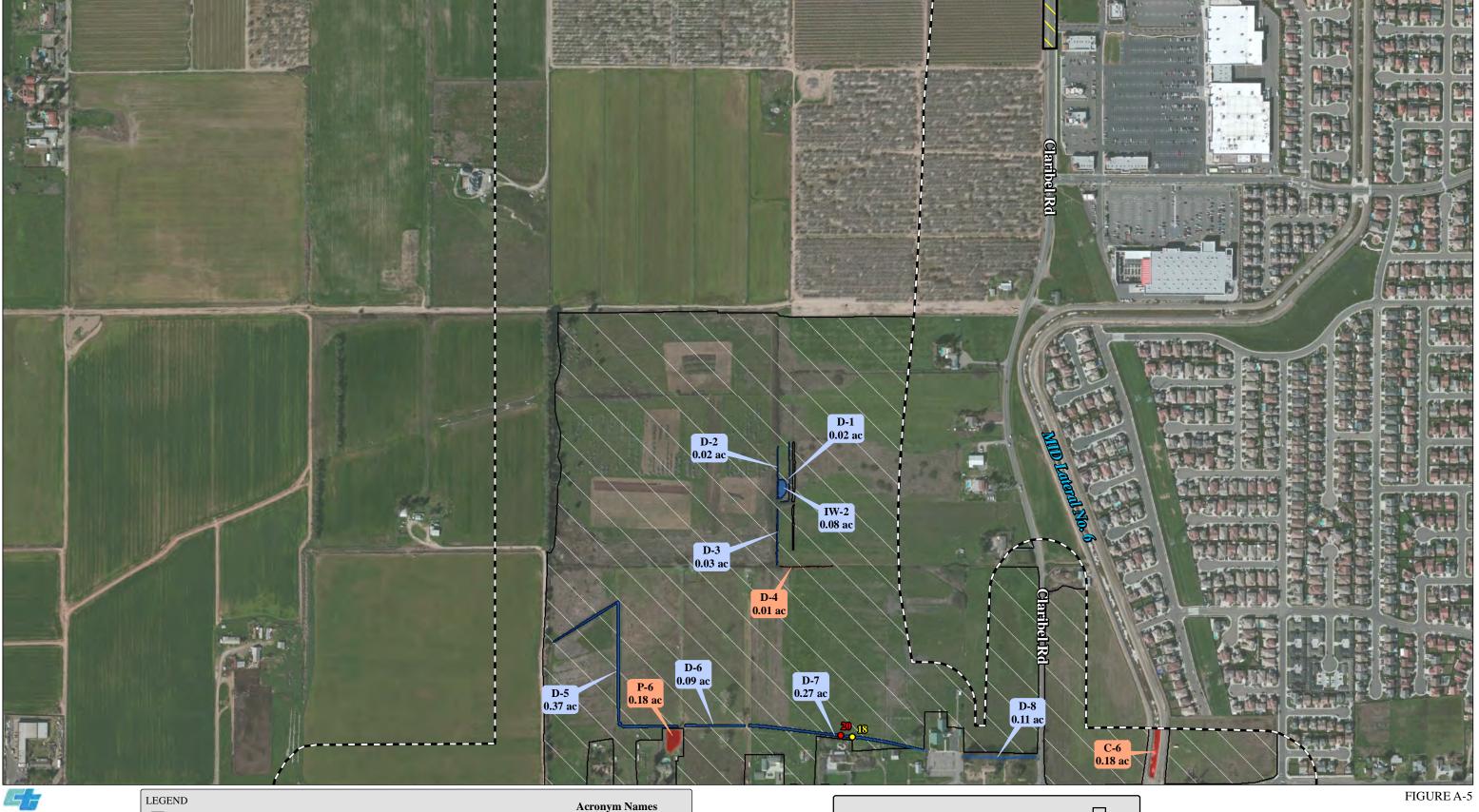
SW - Seasonal Wetland PM - Perennial Marsh

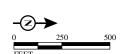
IW - Irrigated Wetland



Preliminary Jurisdictional Delineation

EA: 10-0S800, Project ID # 1000000263 North County Corridor New State Route 108 Project Stanislaus County, California





Study Area

Claribel Rd. Widening Project

SR-219 Widening Project

Converted to Orchard CC Irrigated Pasture

Potential Jurisdictional Waters of the U.S. - (82.85 ac)

Non-Wetland Waters - (37.30 ac) Wetlands - (45.55 ac)

O Data Point Photo Point

C - Canal D - Ditch

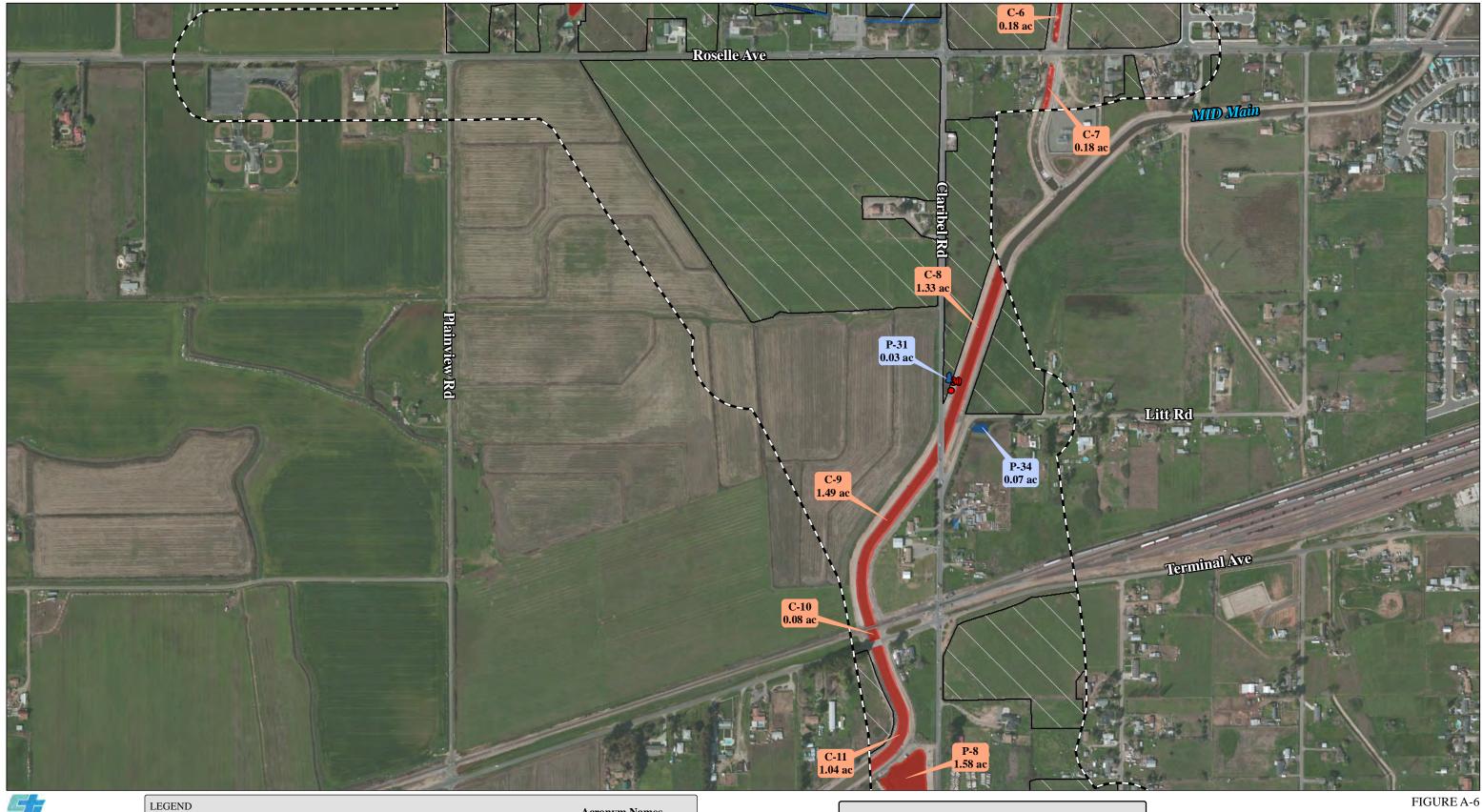
P - Pond SW - Seasonal Wetland PM - Perennial Marsh

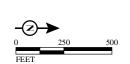
IW - Irrigated Wetland



Preliminary Jurisdictional Delineation

EA: 10-0S800, Project ID # 1000000263 North County Corridor New State Route 108 Project Stanislaus County, California





Study Area

Claribel Rd. Widening Project

SR-219 Widening Project Converted to Orchard

Potential Jurisdictional Waters of the U.S. - (82.85 ac) Non-Wetland Waters - (37.30 ac)

Wetlands - (45.55 ac)

O Data Point Photo Point Acronym Names

C - Canal D - Ditch

P - Pond SW - Seasonal Wetland PM - Perennial Marsh

IW - Irrigated Wetland



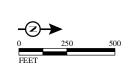
Preliminary Jurisdictional Delineation

EA: 10-0S800, Project ID # 1000000263 North County Corridor New State Route 108 Project Stanislaus County, California

SOURCE: Basemap - ESRI Aerial Imagery (2011); Mapping - LSA Associates, Inc. (2014); ICF (2011)

Irrigated Pasture





LEGEND

Study Area

Claribel Rd. Widening Project

SR-219 Widening Project

Converted to Orchard Irrigated Pasture

Potential Jurisdictional Waters of the U.S. - (82.85 ac)

Non-Wetland Waters - (37.30 ac)

Wetlands - (45.55 ac) O Data Point

Photo Point

Acronym Names

C - Canal D - Ditch

P - Pond

SW - Seasonal Wetland PM - Perennial Marsh

IW - Irrigated Wetland



Preliminary Jurisdictional Delineation

EA: 10-0S800, Project ID # 1000000263 North County Corridor New State Route 108 Project Stanislaus County, California



D - Ditch

P - Pond

SW - Seasonal Wetland PM - Perennial Marsh

IW - Irrigated Wetland

Non-Wetland Waters - (37.30 ac)

Wetlands - (45.55 ac)

O Data Point

Photo Point

SOURCE: Basemap - ESRI Aerial Imagery (2011); Mapping - LSA Associates, Inc. (2014); ICF (2011)

Claribel Rd. Widening Project

SR-219 Widening Project

Converted to Orchard

Irrigated Pasture

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Preliminary Jurisdictional Delineation

EA: 10-0S800, Project ID # 1000000263 North County Corridor New State Route 108 Project Stanislaus County, California



C - Canal D - Ditch

P - Pond

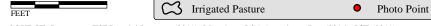
SW - Seasonal Wetland PM - Perennial Marsh

IW - Irrigated Wetland

Non-Wetland Waters - (37.30 ac)

Wetlands - (45.55 ac)

O Data Point



Claribel Rd. Widening Project

SR-219 Widening Project

Converted to Orchard

 $SOURCE: Basemap - ESRI\ Aerial\ Imagery\ (2011);\ Mapping - LSA\ Associates,\ Inc.\ (2014);\ ICF\ (2011)$

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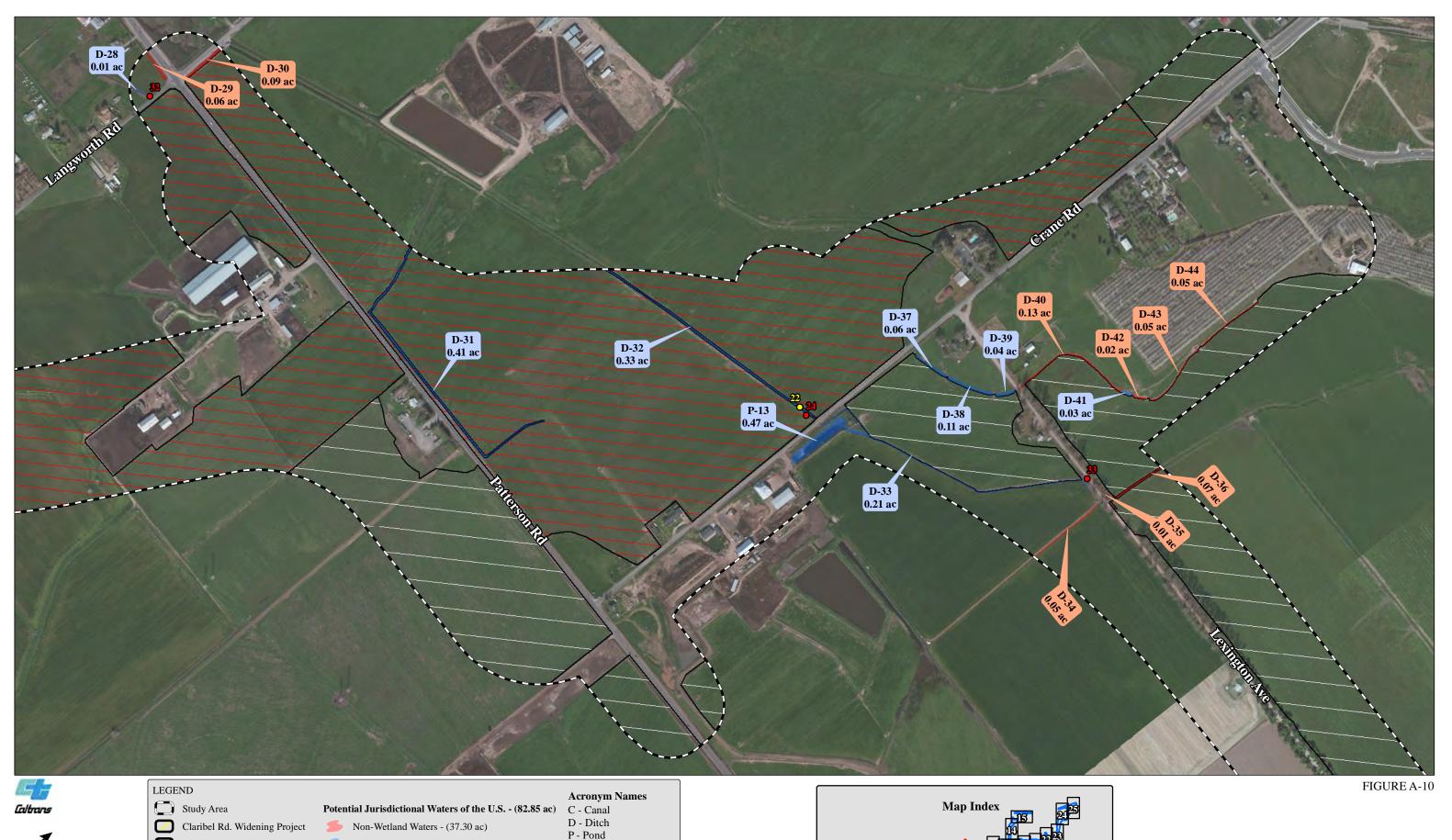


Preliminary Jurisdictional Delineation

EA: 10-0S800, Project ID # 1000000263

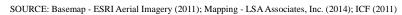
North County Corridor New State Route 108 Project

Stanislaus County, California



SW - Seasonal Wetland PM - Perennial Marsh

IW - Irrigated Wetland



SR-219 Widening Project

Converted to Orchard

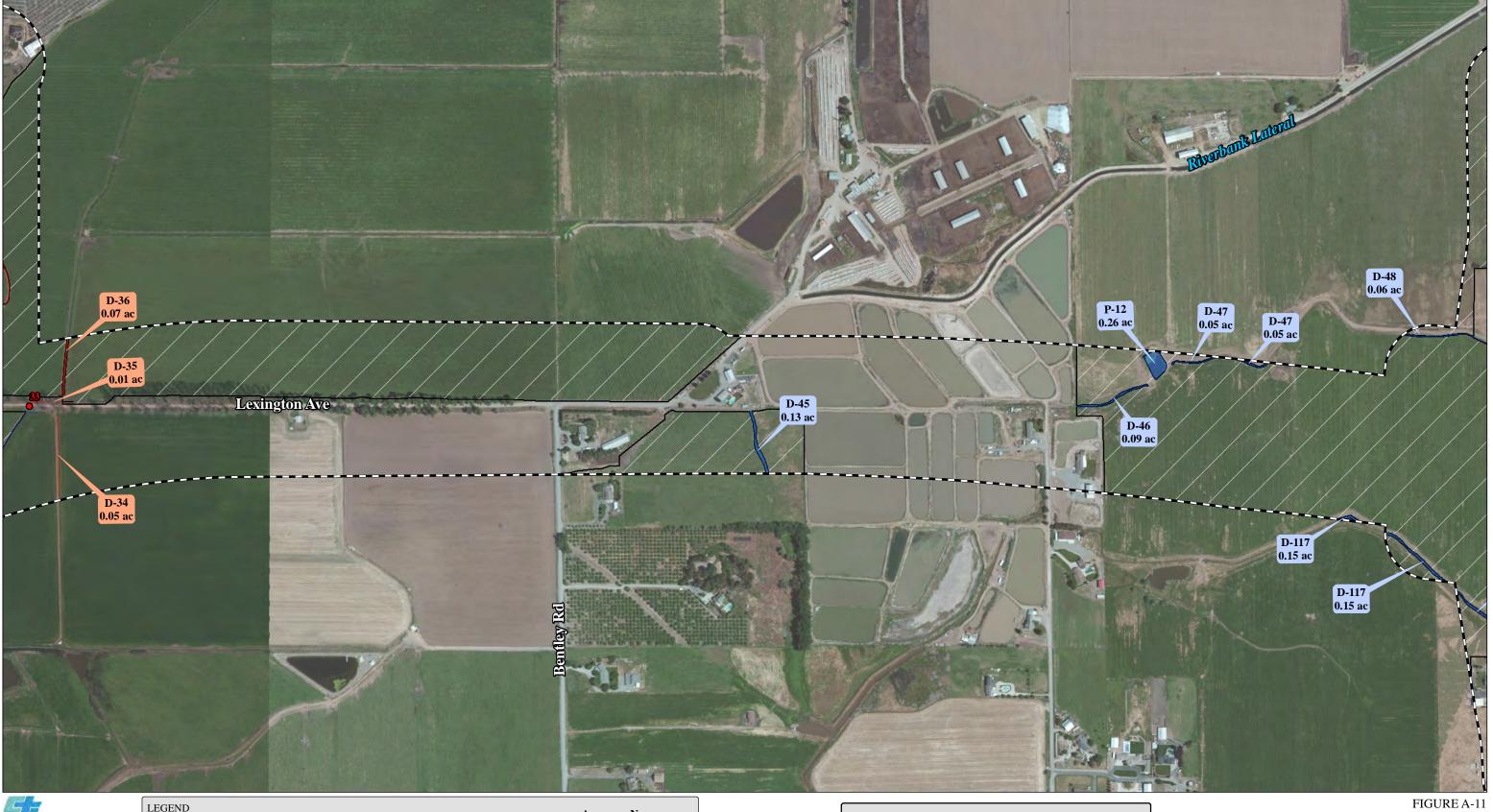
Irrigated Pasture

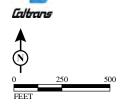
Wetlands - (45.55 ac)

O Data Point

Photo Point

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LEGEND

Study Area

Claribel Rd. Widening Project

SR-219 Widening Project

Converted to Orchard Irrigated Pasture

Potential Jurisdictional Waters of the U.S. - (82.85 ac)

Non-Wetland Waters - (37.30 ac)

Wetlands - (45.55 ac)

O Data Point Photo Point Acronym Names

C - Canal D - Ditch

P - Pond

SW - Seasonal Wetland PM - Perennial Marsh

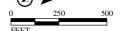
IW - Irrigated Wetland

Map Index

Preliminary Jurisdictional Delineation

EA: 10-0S800, Project ID # 1000000263 North County Corridor New State Route 108 Project Stanislaus County, California





SOURCE: Basemap - ESRI Aerial Imagery (2011); Mapping - LSA Associates, Inc. (2014); ICF (2011)

Irrigated Pasture

Claribel Rd. Widening Project

SR-219 Widening Project

Converted to Orchard

D - Ditch

P - Pond

Non-Wetland Waters - (37.30 ac)

Wetlands - (45.55 ac)

O Data Point

Photo Point

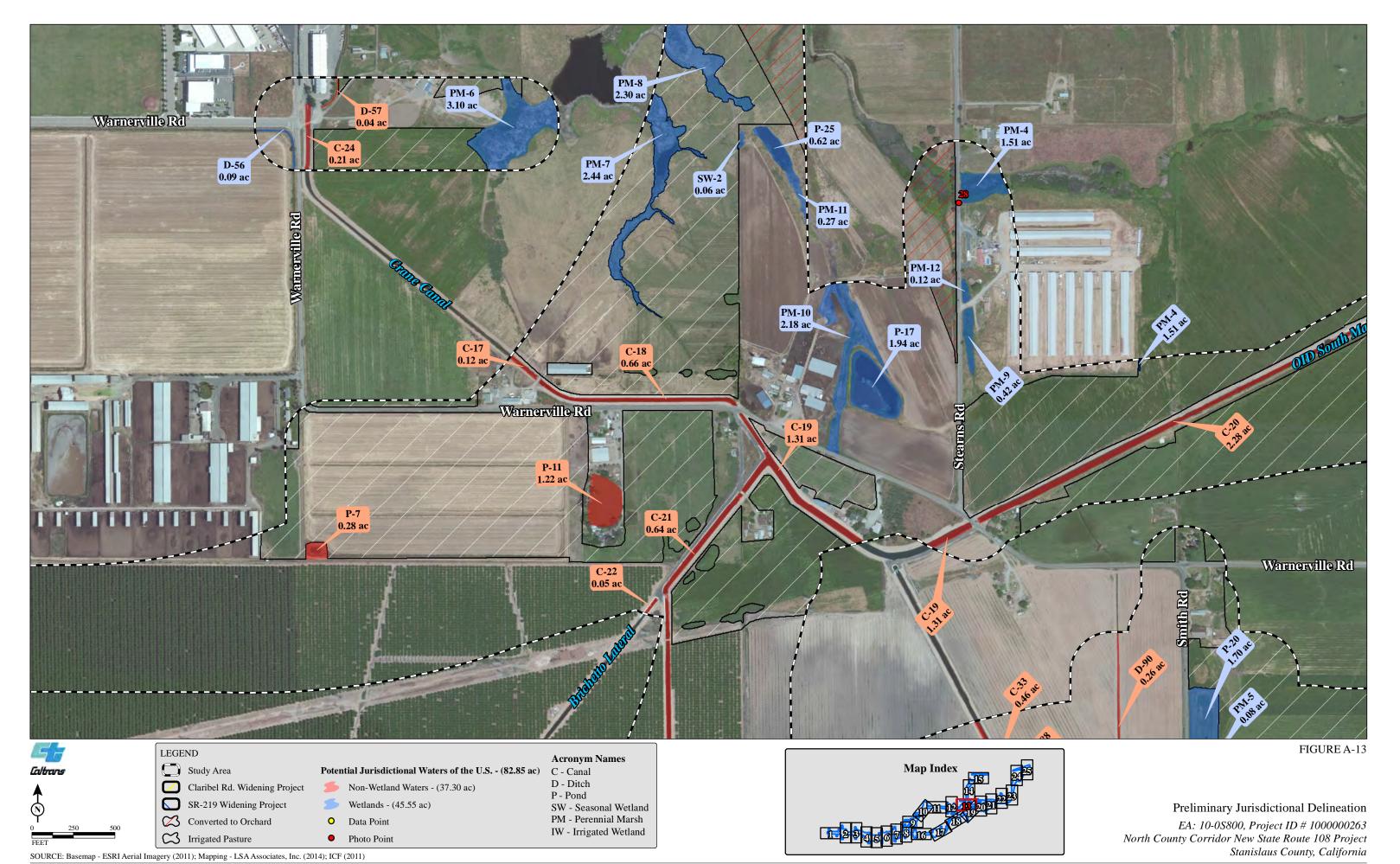
SW - Seasonal Wetland PM - Perennial Marsh

IW - Irrigated Wetland

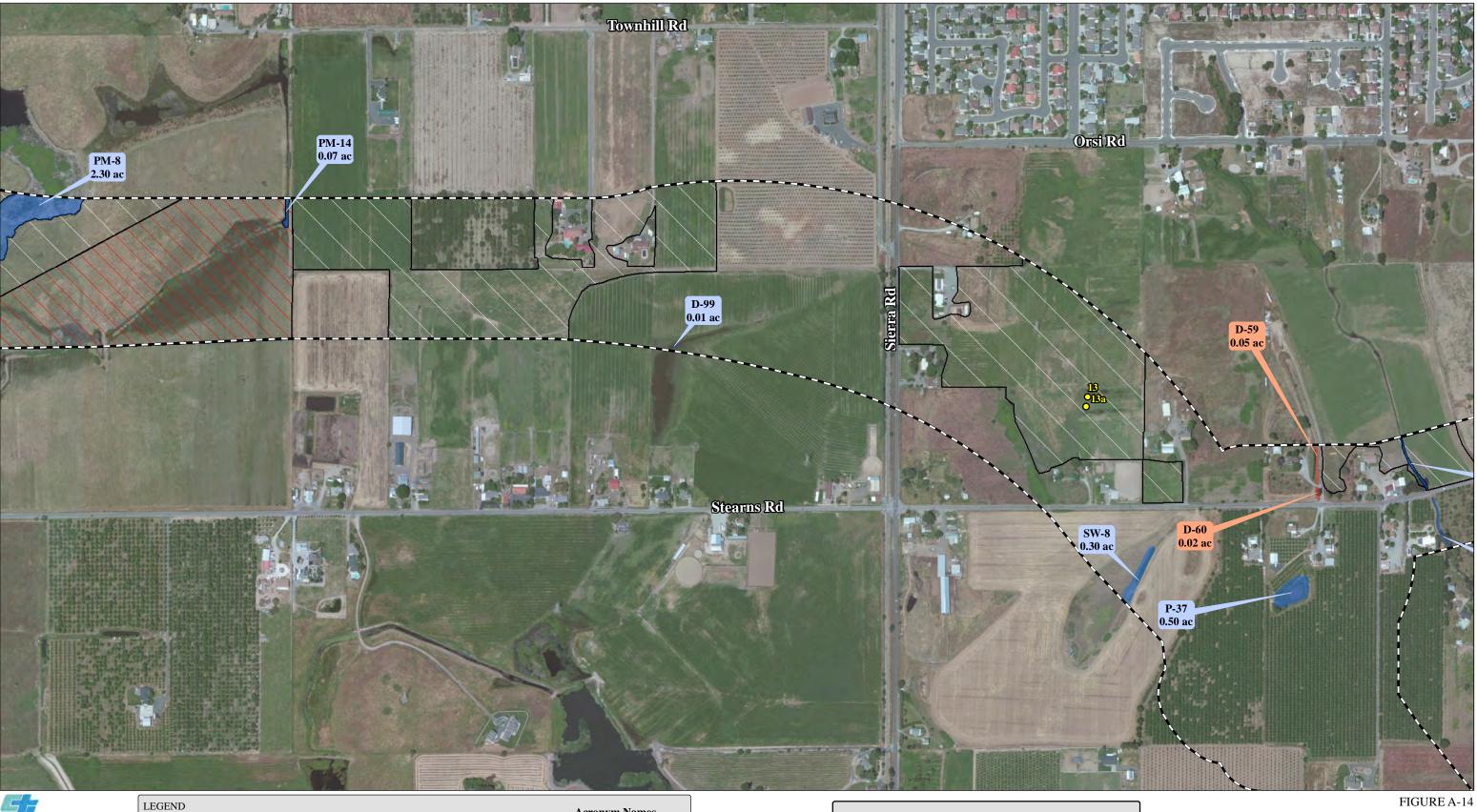


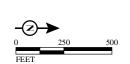
Preliminary Jurisdictional Delineation

EA: 10-0S800, Project ID # 1000000263 North County Corridor New State Route 108 Project Stanislaus County, California



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Study Area

Claribel Rd. Widening Project SR-219 Widening Project

Converted to Orchard

Irrigated Pasture

Potential Jurisdictional Waters of the U.S. - (82.85 ac)

Non-Wetland Waters - (37.30 ac)

Wetlands - (45.55 ac) O Data Point

Photo Point

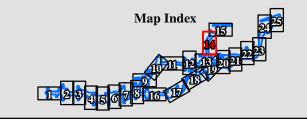
Acronym Names

C - Canal D - Ditch

P - Pond

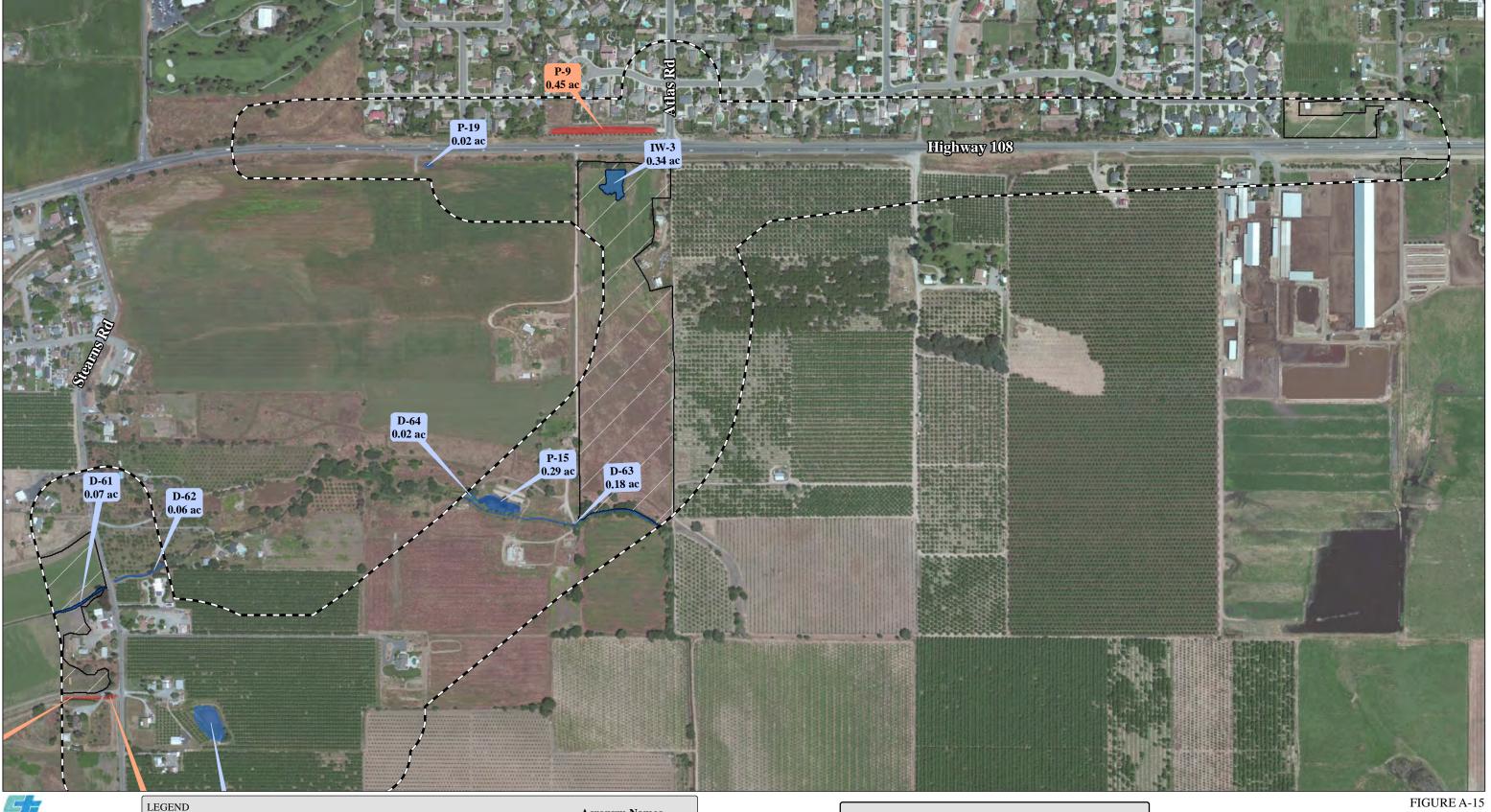
SW - Seasonal Wetland PM - Perennial Marsh

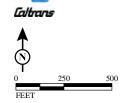
IW - Irrigated Wetland



Preliminary Jurisdictional Delineation

EA: 10-0S800, Project ID # 1000000263 North County Corridor New State Route 108 Project Stanislaus County, California





Study Area

Claribel Rd. Widening Project SR-219 Widening Project

Converted to Orchard Irrigated Pasture

Potential Jurisdictional Waters of the U.S. - (82.85 ac)

Non-Wetland Waters - (37.30 ac) Wetlands - (45.55 ac)

O Data Point Photo Point Acronym Names

C - Canal D - Ditch

P - Pond SW - Seasonal Wetland PM - Perennial Marsh

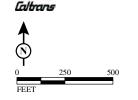
IW - Irrigated Wetland



Preliminary Jurisdictional Delineation EA: 10-0S800, Project ID # 1000000263 North County Corridor New State Route 108 Project

Stanislaus County, California





Study Area

Irrigated Pasture

Claribel Rd. Widening Project SR-219 Widening Project

Potential Jurisdictional Waters of the U.S. - (82.85 ac) Converted to Orchard

Wetlands - (45.55 ac) O Data Point Photo Point

Non-Wetland Waters - (37.30 ac)

Acronym Names

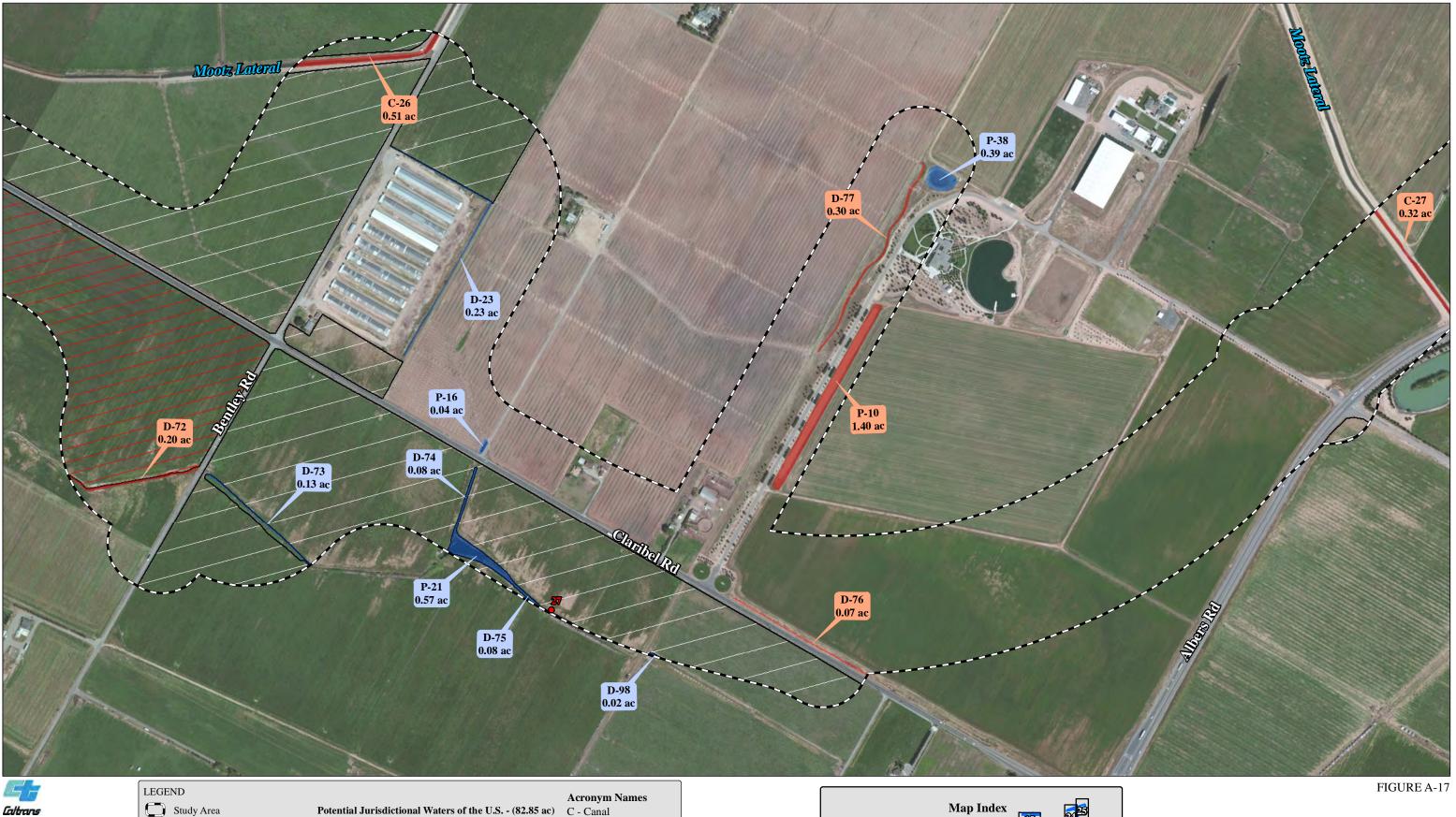
C - Canal D - Ditch

P - Pond SW - Seasonal Wetland PM - Perennial Marsh

IW - Irrigated Wetland

Map Index

Preliminary Jurisdictional Delineation EA: 10-0S800, Project ID # 1000000263 North County Corridor New State Route 108 Project Stanislaus County, California





Potential Jurisdictional Waters of the U.S. - (82.85 ac)

Non-Wetland Waters - (37.30 ac)

Wetlands - (45.55 ac)

O Data Point Photo Point C - Canal D - Ditch P - Pond

SW - Seasonal Wetland PM - Perennial Marsh

IW - Irrigated Wetland



Preliminary Jurisdictional Delineation EA: 10-0S800, Project ID # 1000000263 North County Corridor New State Route 108 Project Stanislaus County, California





Claribel Rd. Widening Project

SR-219 Widening Project

Potential Jurisdictional Waters of the U.S. - (82.85 ac)

Non-Wetland Waters - (37.30 ac)

P - Pond

Wetlands - (45.55 ac)

SW - Seasonal Wetland

Data Point

PM - Perennial Marsh

W- Irrigated Wetland

Preliminary Jurisdictional Delineation *EA: 10-0S800, Project ID # 1000000263*

North County Corridor New State Route 108 Project Stanislaus County, California



P - Pond

SW - Seasonal Wetland PM - Perennial Marsh

IW - Irrigated Wetland

SOURCE: Basemap - ESRI Aerial Imagery (2011); Mapping - LSA Associates, Inc. (2014); ICF (2011)

SR-219 Widening Project

Converted to Orchard

Irrigated Pasture

Wetlands - (45.55 ac)

O Data Point

Photo Point

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Preliminary Jurisdictional Delineation

EA: 10-0S800, Project ID # 1000000263 North County Corridor New State Route 108 Project Stanislaus County, California



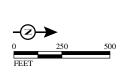
Acronym Names

SW - Seasonal Wetland PM - Perennial Marsh

IW - Irrigated Wetland

C - Canal D - Ditch

P - Pond

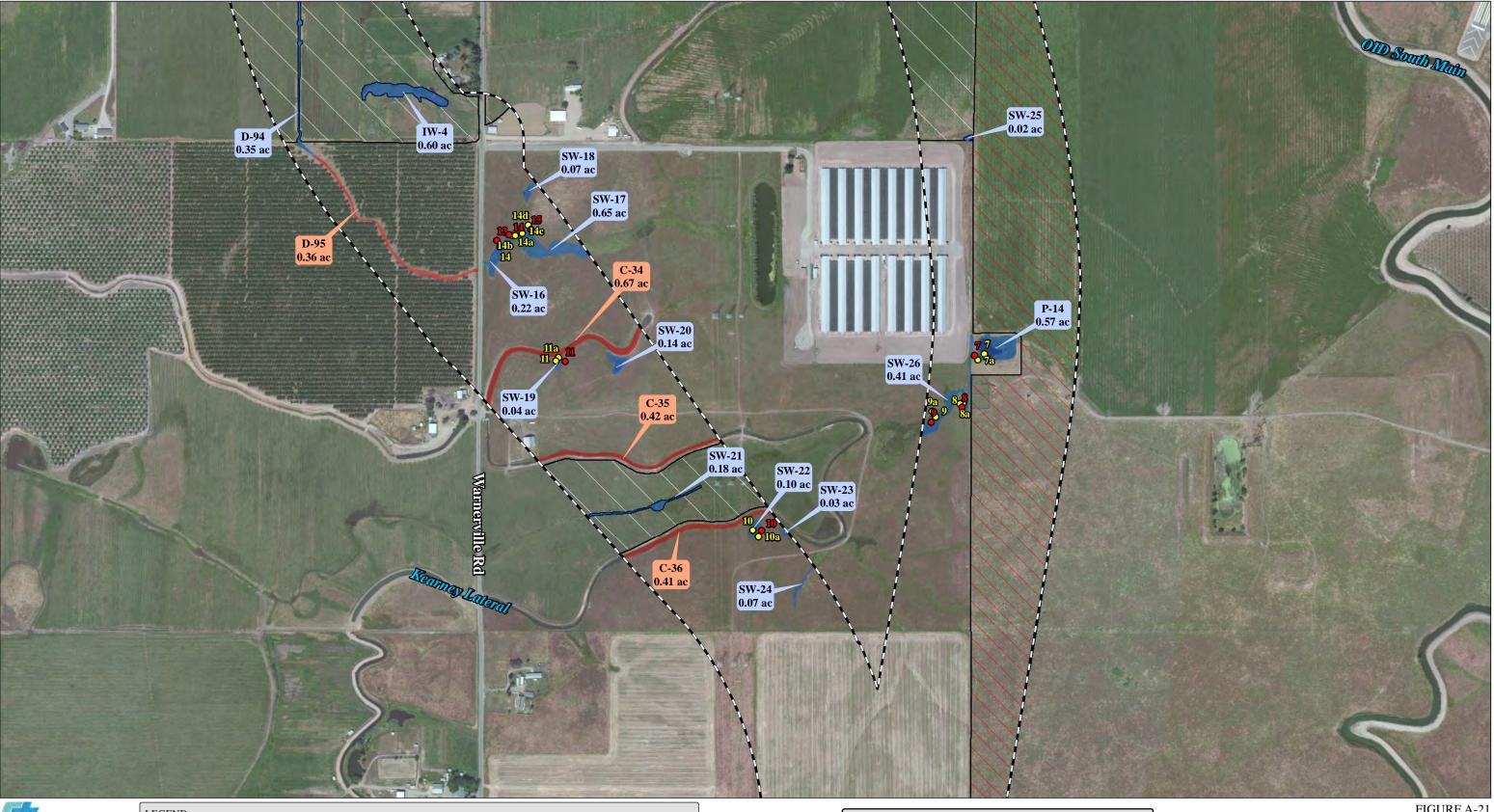


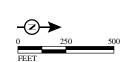
Caltrans

Study Area Potential Jurisdictional Waters of the U.S. - (82.85 ac) Claribel Rd. Widening Project Non-Wetland Waters - (37.30 ac) SR-219 Widening Project Wetlands - (45.55 ac) O Data Point Converted to Orchard Irrigated Pasture Photo Point

Map Index

Preliminary Jurisdictional Delineation EA: 10-0S800, Project ID # 1000000263 North County Corridor New State Route 108 Project Stanislaus County, California





LEGEND

Study Area

Claribel Rd. Widening Project

SR-219 Widening Project

Converted to Orchard Irrigated Pasture

Potential Jurisdictional Waters of the U.S. - (82.85 ac)

Non-Wetland Waters - (37.30 ac) Wetlands - (45.55 ac)

O Data Point

Photo Point

C - Canal D - Ditch

P - Pond

Acronym Names

SW - Seasonal Wetland PM - Perennial Marsh

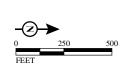
IW - Irrigated Wetland



FIGURE A-21

Preliminary Jurisdictional Delineation EA: 10-0S800, Project ID # 1000000263 North County Corridor New State Route 108 Project Stanislaus County, California





LEGEND Study Area

Claribel Rd. Widening Project

SR-219 Widening Project Converted to Orchard CC Irrigated Pasture

Potential Jurisdictional Waters of the U.S. - (82.85 ac) Non-Wetland Waters - (37.30 ac) Wetlands - (45.55 ac)

O Data Point Photo Point Acronym Names

C - Canal D - Ditch

P - Pond

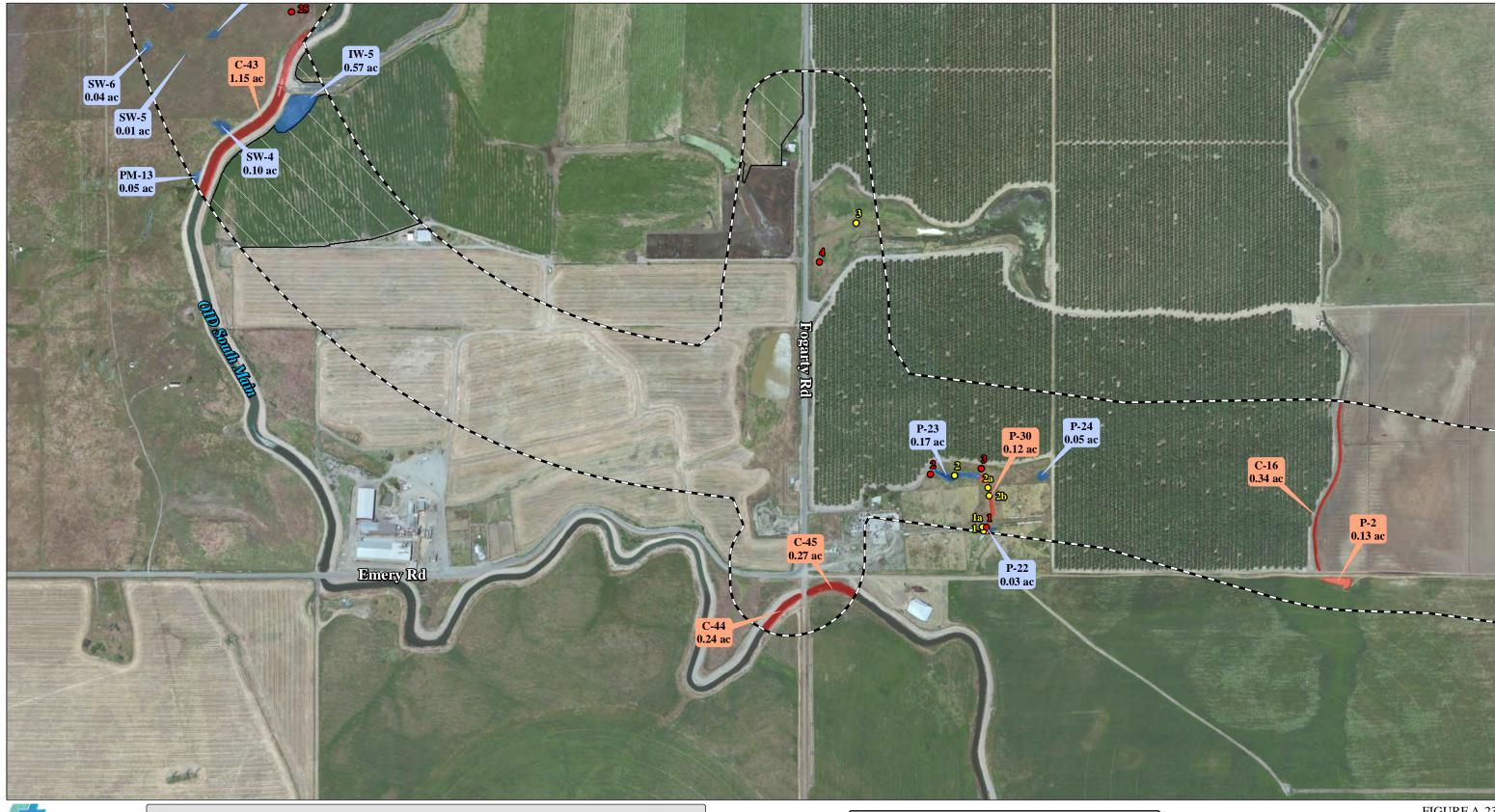
SW - Seasonal Wetland PM - Perennial Marsh

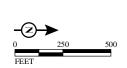
IW - Irrigated Wetland



Preliminary Jurisdictional Delineation EA: 10-0S800, Project ID # 1000000263 North County Corridor New State Route 108 Project

Stanislaus County, California





LEGEND

Study Area

Claribel Rd. Widening Project

SR-219 Widening Project

Converted to Orchard

Irrigated Pasture

Acronym Names Potential Jurisdictional Waters of the U.S. - (82.85 ac)

Non-Wetland Waters - (37.30 ac) Wetlands - (45.55 ac)

O Data Point Photo Point C - Canal D - Ditch P - Pond

SW - Seasonal Wetland PM - Perennial Marsh

IW - Irrigated Wetland



FIGURE A-23

Preliminary Jurisdictional Delineation EA: 10-0S800, Project ID # 1000000263 North County Corridor New State Route 108 Project

Stanislaus County, California





LEGEND

Study Area

Claribel Rd. Widening Project

Converted to Orchard

SR-219 Widening Project Irrigated Pasture

Potential Jurisdictional Waters of the U.S. - (82.85 ac)

Non-Wetland Waters - (37.30 ac) Wetlands - (45.55 ac)

O Data Point Photo Point Acronym Names

C - Canal D - Ditch

P - Pond

SW - Seasonal Wetland PM - Perennial Marsh

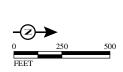
IW - Irrigated Wetland



FIGURE A-24

Preliminary Jurisdictional Delineation EA: 10-0S800, Project ID # 1000000263 North County Corridor New State Route 108 Project Stanislaus County, California





LEGEND

Study Area

Claribel Rd. Widening Project SR-219 Widening Project

Converted to Orchard Irrigated Pasture

Potential Jurisdictional Waters of the U.S. - (82.85 ac)

Non-Wetland Waters - (37.30 ac) Wetlands - (45.55 ac)

O Data Point Photo Point Acronym Names

C - Canal D - Ditch

P - Pond SW - Seasonal Wetland PM - Perennial Marsh

IW - Irrigated Wetland



Preliminary Jurisdictional Delineation EA: 10-0S800, Project ID # 1000000263 North County Corridor New State Route 108 Project Stanislaus County, California

North County Corridor New State Route 108 - Potential
Jurisdictional Waters

Feature Class	Label	Area (ac)	Wetlands?
Canal	C-1	0.59	No
Canal	C-10	0.08	No
Canal	C-11	1.04	No
Canal	C-12	0.47	No
Canal	C-13	2.02	No
Canal	C-14	0.48	No
Canal	C-15	0.23	No
Canal	C-16	0.34	No
Canal	C-17	0.12	No
Canal	C-18	0.66	No
Canal	C-19	1.31	No
Canal	C-2	1.40	No
Canal	C-20	2.28	No
Canal	C-21	0.64	No
Canal	C-22	0.05	No
Canal	C-23	1.24	No
Canal	C-24	0.21	No
Canal	C-25	0.18	No
Canal	C-26	0.51	No
Canal	C-27	0.32	No
Canal	C-28	0.05	No
Canal	C-29	0.60	No
Canal	C-3	0.16	No
Canal	C-30	0.50	No
Canal	C-31	0.01	No
Canal	C-32	0.29	No
Canal	C-33	0.46	No
Canal	C-34	0.67	No
Canal	C-35	0.42	No
Canal	C-36	0.41	No
Canal	C-37	0.28	No
Canal	C-38	1.05	No
Canal	C-39	0.30	No
Canal	C-4	0.71	No
Canal	C-40	0.90	No
Canal	C-41	0.61	No
Canal	C-42	0.15	No
Canal	C-43	1.15	No
Canal	C-44	0.24	No
Canal	C-45	0.27	No
Canal	C-5	0.13	No
Canal	C-6	0.18	No
Canal	C-7	0.18	No
Canal	C-8	1.33	No
Canai	C-0	1.55	140

North Coun	ty Corridor New State		ential
	Jurisdictional Wa	ters	
Canal	C-9	1.49	No
Ditch	D-1	0.02	Yes
Ditch	D-10	0.15	No
Ditch	D-100	0.01	Yes
Ditch	D-101	0.04	No
Ditch	D-102	0.06	No
Ditch	D-103	0.02	No
Ditch	D-104	0.02	No
Ditch	D-105	0.06	No
Ditch	D-106	0.02	No
Ditch	D-107	0.02	Yes
Ditch	D-108	0.02	Yes
Ditch	D-109	0.01	Yes
Ditch	D-11	0.01	Yes
Ditch	D-110	0.03	Yes
Ditch	D-111	0.01	Yes
Ditch	D-112	0.02	Yes
Ditch	D-113	0.03	Yes
Ditch	D-114	0.02	Yes
Ditch	D-115	0.02	Yes
Ditch	D-116	0.01	Yes
Ditch	D-117	0.15	Yes
Ditch	D-12	0.00	Yes
Ditch	D-13	0.00	Yes
Ditch	D-14	0.31	Yes
Ditch	D-15	0.12	Yes
Ditch	D-16	0.01	Yes
Ditch	D-17	0.13	No
Ditch	D-18	0.46	No
Ditch	D-19	0.11	No
Ditch	D-2	0.02	Yes
Ditch	D-20	0.00	No
Ditch	D-21	0.08	Yes
Ditch	D-22	0.08	No
Ditch	D-23	0.23	Yes
Ditch	D-24	0.04	No
Ditch	D-25	0.09	No
Ditch	D-26	0.07	No
Ditch	D-27	0.16	Yes
Ditch	D-28	0.01	Yes
Ditch	D-29	0.06	No
Ditch	D-3	0.03	Yes
Ditch	D-30	0.09	No
Ditch	D-31	0.41	Yes
Ditch	D-32	0.33	Yes

y Corridor New State		ential			
Jurisdictional Waters					
D-33	0.21	Yes			
D-34	0.05	No			
D-35	0.01	No			
D-36	0.07	No			
D-37	0.06	Yes			
D-38	0.11	Yes			
D-39	0.04	Yes			
D-4	0.01	No			
D-40	0.13	No			
D-41	0.03	Yes			
D-42	0.02	No			
D-43	0.05	No			
D-44	0.05	No			
D-45	0.13	Yes			
D-46	0.09	Yes			
D-47	0.05	Yes			
D-48	0.06	Yes			
D-49	0.04	Yes			
D-5	0.37	Yes			
D-50	0.05	Yes			
D-51	0.10	Yes			
D-52	0.16	Yes			
D-53	0.09	Yes			
D-54	0.17	No			
D-55	0.20	No			
D-56	0.09	Yes			
D-57	0.04	No			
D-58	0.31	Yes			
D-59	0.05	No			
D-6	0.09	Yes			
D-60	0.02	No			
D-61	0.07	Yes			
D-62	0.06	Yes			
D-63	0.18	Yes			
D-64	0.02	Yes			
D-65	0.07	Yes			
D-66	0.12	No			
D-67	0.02	No			
D-68	0.09	No			
D-69	0.12	Yes			
D-7	0.27	Yes			
D-70	0.05	No			
D-71	0.02	Yes			
D-72	0.20	No			
D-73		Yes			
	Jurisdictional War D-33 D-34 D-35 D-36 D-37 D-38 D-39 D-4 D-40 D-41 D-42 D-43 D-44 D-45 D-46 D-47 D-48 D-49 D-5 D-50 D-51 D-52 D-53 D-54 D-55 D-56 D-57 D-58 D-59 D-6 D-60 D-61 D-62 D-63 D-64 D-65 D-66 D-67 D-68 D-69 D-7 D-70 D-71 D-72	D-33 0.21 D-34 0.05 D-35 0.01 D-36 0.07 D-37 0.06 D-38 0.11 D-39 0.04 D-40 0.13 D-41 0.03 D-42 0.02 D-43 0.05 D-44 0.05 D-45 0.13 D-46 0.09 D-47 0.05 D-48 0.06 D-49 0.04 D-5 0.37 D-50 0.05 D-51 0.10 D-52 0.16 D-53 0.09 D-54 0.17 D-55 0.20 D-56 0.09 D-57 0.04 D-58 0.31 D-59 0.05 D-60 0.02 D-61 0.07 D-62 0.06 D-63 0.18 D-66 0.09 D-67 0.02 D-68 0.09 D-69 0.12 D-70 0.05 D-71 0.02 D-72 0.20			

North County	Corridor New State		ential		
Jurisdictional Waters					
Ditch	D-74	0.08	Yes		
Ditch	D-75	0.08	Yes		
Ditch	D-76	0.06	No		
Ditch	D-77	0.30	No		
Ditch	D-78	0.32	Yes		
Ditch	D-79	0.17	No		
Ditch	D-8	0.11	Yes		
Ditch	D-80	0.06	Yes		
Ditch	D-81	0.04	Yes		
Ditch	D-82	0.02	Yes		
Ditch	D-83	0.08	No		
Ditch	D-84	0.07	Yes		
Ditch	D-85	0.07	Yes		
Ditch	D-86	0.45	Yes		
Ditch	D-87	0.48	No		
Ditch	D-88	0.07	No		
Ditch	D-89	0.04	No		
Ditch	D-9	0.10	Yes		
Ditch	D-90	0.26	No		
Ditch	D-91	0.34	Yes		
Ditch	D-92	0.05	Yes		
Ditch	D-93	0.03	Yes		
Ditch	D-94	0.35	Yes		
Ditch	D-95	0.36	No		
Ditch	D-96	0.07	No		
Ditch	D-98	0.01	Yes		
Ditch	D-99	0.00	Yes		
Irrigated Wetland	IW-1	2.15	Yes		
Irrigated Wetland	IW-2	0.08	Yes		
Irrigated Wetland	IW-3	0.34	Yes		
Irrigated Wetland	IW-4	0.60	Yes		
Irrigated Wetland	IW-5	0.57	Yes		
Pond/Basin	P-1	0.25	No		
Pond/Basin	P-10	1.40	No		
Pond/Basin	P-11	1.22	No		
Pond/Basin	P-12	0.26	Yes		
Pond/Basin	P-13	0.47	Yes		
Pond/Basin	P-14	0.57	Yes		
Pond/Basin	P-15	0.29	Yes		
Pond/Basin	P-16	0.04	Yes		
Pond/Basin	P-17	1.94	Yes		
Pond/Basin	P-18	0.10	Yes		
Pond/Basin	P-19	0.02	Yes		
Pond/Basin	P-2	0.13	No		
Pond/Basin	P-20	1.70	Yes		

North Coun	ty Corridor New State Ro	oute 108 - Pote	ntial
	Jurisdictional Water	rs	
Pond/Basin	P-21	0.57	Yes
Pond/Basin	P-22	0.03	Yes
Pond/Basin	P-23	0.17	Yes
Pond/Basin	P-24	0.05	Yes
Pond/Basin	P-25	0.62	Yes
Pond/Basin	P-26	1.17	Yes
Pond/Basin	P-27	0.16	Yes
Pond/Basin	P-28	0.17	Yes
Pond/Basin	P-29	0.19	Yes
Pond/Basin	P-3	0.01	No
Pond/Basin	P-30	0.12	No
Pond/Basin	P-31	0.03	Yes
Pond/Basin	P-32	0.05	Yes
Pond/Basin	P-33	0.10	Yes
Pond/Basin	P-34	0.07	Yes
Pond/Basin	P-35	0.41	Yes
Pond/Basin	P-36	0.04	Yes
Pond/Basin	P-37	0.50	Yes
Pond/Basin	P-38	0.39	Yes
Pond/Basin	P-4	0.05	No
Pond/Basin	P-5	0.17	No
Pond/Basin	P-6	0.18	No
Pond/Basin	P-7	0.28	No
Pond/Basin	P-8	1.58	No
Pond/Basin	P-9	0.45	No
Perennial Marsh	PM-1	0.51	Yes
Perennial Marsh	PM-10	2.18	Yes
Perennial Marsh	PM-11	0.27	Yes
Perennial Marsh	PM-12	0.12	Yes
Perennial Marsh	PM-13	0.05	Yes
Perennial Marsh	PM-14	0.07	Yes
Perennial Marsh	PM-2	0.86	Yes
Perennial Marsh	PM-3	0.22	Yes
Perennial Marsh	PM-4	1.51	Yes
Perennial Marsh	PM-5	0.08	Yes
Perennial Marsh	PM-6	3.10	Yes
Perennial Marsh	PM-7	2.44	Yes
Perennial Marsh	PM-8	2.30	Yes
Perennial Marsh	PM-9	0.42	Yes
Seasonal Wetland	SW-1	0.02	Yes
Seasonal Wetland	SW-10	0.02	Yes
Seasonal Wetland	SW-11	0.15	Yes
Seasonal Wetland	SW-12	0.29	Yes
Seasonal Wetland	SW-13	0.26	Yes
Seasonal Wetland	SW-14	0.79	Yes

North County C	Corridor New State	Route 108 - Pote	ential
	Jurisdictional Wa	ters	
Seasonal Wetland	SW-15	1.73	Yes
Seasonal Wetland	SW-16	0.22	Yes
Seasonal Wetland	SW-17	0.65	Yes
Seasonal Wetland	SW-18	0.07	Yes
Seasonal Wetland	SW-19	0.04	Yes
Seasonal Wetland	SW-2	0.06	Yes
Seasonal Wetland	SW-20	0.14	Yes
Seasonal Wetland	SW-21	0.18	Yes
Seasonal Wetland	SW-22	0.10	Yes
Seasonal Wetland	SW-23	0.03	Yes
Seasonal Wetland	SW-24	0.07	Yes
Seasonal Wetland	SW-25	0.02	Yes
Seasonal Wetland	SW-26	0.41	Yes
Seasonal Wetland	SW-27	1.17	Yes
Seasonal Wetland	SW-28	1.65	Yes
Seasonal Wetland	SW-29	1.45	Yes
Seasonal Wetland	SW-3	0.14	Yes
Seasonal Wetland	SW-4	0.10	Yes
Seasonal Wetland	SW-5	0.01	Yes
Seasonal Wetland	SW-6	0.04	Yes
Seasonal Wetland	SW-7	0.09	Yes
Seasonal Wetland	SW-8	0.30	Yes
Seasonal Wetland	SW-9	0.04	Yes



Project/Site: North County County	or c	ity/County: 5to	anislaus Sampling Date: 3/12/14
Applicant/Owner: Stanislaus County			
Investigator(s): MIKETYUE HOOd / Days			
			, convex, none): Slope (%):
			Long: Datum:
			NWI classification:
Are climatic / hydrologic conditions on the site typical fo			
Are Vegetation, Soil, or Hydrology			"Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology			needed, explain any answers in Remarks.)
			locations, transects, important features, etc
Solition The little Attach site in	ap showing s	ampling point	iocations, transects, important reatures, etc
Hydrophytic Vegetation Present?		Is the Sample	d Area
Hydric Soil Present? Yes X	_ No	within a Wetla	and? Yes X No
Wetland Hydrology Present? Yes X	_ No		
Remarks.			
VEGETATION			
Tona Charles (I lea aciontific name)		Dominant Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Use scientific names.)		Species? Status	Number of Dominant Species
1. <u> </u>			That Are OBL, FACW, or FAC:(A)
3. 444 164			Total Number of Dominant Species Across All Strata:
	Ш		opecies Across Air Strata.
	over:		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum	E 11 13 11		
1, 6 (3 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4			Prevalence Index worksheet:
2			
3.			OBL species x 1 = 46 FACW species x 2 =
4 5.			FAC species x3 = _ 60
	over:		FACU species . 40 x4 = 160
Herb Stratum		1 4	UPL species x5 = 50
1. Polygonum sp.	46	y OB/	Column Totals: 110 (A)(B)
2. Geranium dissectum	10_ Y	TUAL_	201 00 00 00 00 00 00 00
3. Hordeum marinum	_ 20 V	tac	Prevalence Index = B/A = 2.8
4. Kumex acetosella	40	y Facu	Hydrophytic Vegetation Indicators:
5.		Via I	Dominance Test is >50% Prevalence Index is ≤3.0¹
6.			Morphological Adaptations ¹ (Provide supporting
7.		19/1-0	data in Remarks or on a separate sheet)
B	ver: 110		Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum	, 11 U		guin in a minit of the
1 = 1	<u> </u>	ELL THE	¹ Indicators of hydric soil and wetland hydrology must
2	= 150°L -1	- 1915	be present.
Total Co	ver:		Hydrophytic
% Bare Ground in Herb Stratum % Co	ver of Biotic Crus		Vegetation Present? Yes No
Remarks: •		Alland	
1 Bear			

	epth needed to document the indicator o	or confirm	the absence	of Indicators.)
Depth Matrix (inches) Color (moist) %	Redox Features Color (moist) % Type ¹	Loc ²	Texture	Damaille.
m c. 11 m = 140 min			Iexture	Remarks
2 (-1)				Siltyloan
1-15 7.5 41(3/1 100				Siltydaylvam
Type: C=Concentration, D≍Depletion, RI		Lining, RC		nel, M=Matrix.
Histosol (A1)	Sandy Redox (S5)			Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S6)			Muck (A10) (LRR B)
_ Black Histic (A3)	Loamy Mucky Mineral (F1)			ed Vertic (F18)
_ Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)			arent Material (TF2)
Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11)	 Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) 		Other	(Explain in Remarks)
_ Thick Dark Surface (A12)	Redox Depressions (F8)		3	
_ Sandy Mucky Mineral (S1) _ Sandy Gleyed Matrix (S4)	X Vernal Pools (F9)			of hydrophytic vegetation and hydrology must be present.
estrictive Layer (if present): Type: Depth (inches):			-	Present? Yes No
estrictive Layer (if present): Type: Depth (inches):			-	
estrictive Layer (if present): Type: Depth (inches): emarks:			Hydric Soli	Present? Yes No
Type:			Hydric Soli	Present? Yes No
Type: Depth (inches): emarks: **DROLOGY Type: Toronto	ficient)		Hydric Soil Secon	Present? Yes No
Type:	ficient) Salt Crust (B11)		Hydric Soil Secon W Se Se	Present? Yes No Idary Indicators (2 or more required) Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine)
rype:	ficient) Salt Crust (B11) Biotic Crust (B12)		Secon W L D	Present? Yes No Idary Indicators (2 or more required) Idary Marks (B1) (Riverine) Idary Indicators (2 or more required)
rype:	ficient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)		Secon W Se	Present? Yes No Idary Indicators (2 or more required) Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10)
rype:	ficient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	vina Roots	Secon W Se De	Indicators (2 or more required) Index Indicators (2 or more required) Index Indicators (B1) (Riverine) Index Indicators (B2) (Riverine) Indicators (B3) (Riverine) Indicators (B3) (Riverine) Indicators (B3) (Riverine) Indicators (B3) (Riverine) Indicators (B10) Indicators (
rype:	ficient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	/ing Roots	Secon W Si Di Di (C3) Tr	Indicators (2 or more required) Idary Indicators (2 or more required) Idare Marks (B1) (Riverine) Idare Marks (B1) (Riverine) Idare Marks (B1) (Riverine) Idare Marks (B3) (Riverine) Idare Marks (B3) (Riverine) Idare Marks (B10)
estrictive Layer (if present): Type: Depth (inches): emarks: DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is suf Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	ficient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Live Presence of Reduced Iron (C4)		Secon	Indicators (2 or more required) Indicators (2 or more required) Indicators (2 or more required) Indicators (B1) (Riverine) Indicators (B2) (Riverine) Indicators (B3) (Riverine) Indicators (B10) Indicators
estrictive Layer (if present): Type: Depth (inches): emarks: **TOROLOGY **Etland Hydrology Indicators: imary Indicators (any one indicator is sufficient of the sufficient of th	Salt Crust (B11) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livente Control (C4) Recent Iron Reduction in Plowed		Secon	Indicators (2 or more required) Indicators (2 or more required) Indicators (2 or more required) Indicators (B1) (Riverine) Indicators (B2) (Riverine) Indicators (B3) (Riverine) Indicators (B10) Indicators
Type:	Salt Crust (B11) Salt Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Lin Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Other (Explain in Remarks)		Secon	Present? Yes No
estrictive Layer (if present): Type: Depth (inches): emarks: DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is sufficient of the surface water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soll Cracks (B6) Inundation Visible on Aerial Imagery (B Water-Stained Leaves (B9) eld Observations: rface Water Present? Yes	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed TO Other (Explain in Remarks)		Secon	Present? Yes No
Depth (inches): Type: Depth (inches): emarks: Depth (inches): emark	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Lin Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Other (Explain in Remarks) No Depth (inches):	d Soils (C6	Secon	dary Indicators (2 or more required) Pater Marks (B1) (Riverine) Pater Marks (B1) (Riverine) Pater Marks (B3) (Riverine) Pater Marks (B3) (Riverine) Pater Marks (B3) (Riverine) Pater Marks (B4) (Riverine) Pater Marks (B4) Pater
Type:	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed TO Other (Explain in Remarks)	d Soils (C6	Secon Secon Signature Signature Signature (C3) Tr Cir Signature FA	Present? Yes No Idary Indicators (2 or more required) Vater Marks (B1) (Riverine) Prediment Deposits (B2) (Riverine) Prift Deposits (B3) (Riverine) Prainage Patterns (B10) Pry-Season Water Table (C2) Prin Muck Surface (C7) Prayfish Burrows (C8) Paturation Visible on Aerial Imagery (Catallow Aquitard (D3)

andform (hillslope, terrace, etc.): Subregion (LRR): Soil Map Unit Name: Are climatic / hydrologic conditions on the site Are Vegetation, Soil, or Hydro Are Vegetation, Soil, or Hydro BUMMARY OF FINDINGS - Attach Hydrophytic Vegetation Present? Ye Hydric Soil Present?	e typical for this plogy signled with a site map sit	Lat: time of ye gnificantly iturally pro howing Absolute % Cover	Section, T Local relie ar? Yes _ disturbed? blematic? samplii is t with	No Are (If n he Sampledhin a Wetla	NWI classification: (If no, explain in Remarks.) No "Normal Circumstances" present? Yes No needed, explain any answers in Remarks.) locations, transects, important features, or an angle of Area
andform (hillslope, terrace, etc.):	e typical for this plogy significant site map site	time of yegnificantly prohoting howing Absolute % Cover	ar? Yes _ disturbed? blematic? samplii is t with	No Are (If n ng point he Sample hin a Wetla	Dominance Test worksheet: None: Slope (%): Datum: Datum: NWI classification: (If no, explain in Remarks.) Noneeded, explain any answers in Remarks.) Dominance Test worksheet: Number of Dominant Species
ubregion (LRR):	e typical for this blogy significant site map s es No es No es No	time of yet gnificantly process turnelly process through the control of the contr	ar? Yes _ disturbed? blematic? samplii Is t witt	No	
oil Map Unit Name:	e typical for this plogy significant site map site	time of yegnificantly inturally prohibition in the control of the	ar? Yes _ disturbed? blematic? samplii is t with	No Are (If no point the Sample on a Wetland the Indicator Status	NWI classification: (If no, explain in Remarks.) No "Normal Circumstances" present? Yes No needed, explain any answers in Remarks.) locations, transects, important features, of the composition of the compositio
re climatic / hydrologic conditions on the site re Vegetation, Soil, or Hydro re Vegetation, Soil, or Hydro re Vegetation, Soil, or Hydro UMMARY OF FINDINGS - Attach Hydrophytic Vegetation Present? Ye Hydric Soil Present? Ye Wetland Hydrology Present? Ye Remarks: Upland point EGETATION Tree Stratum (Use scientific names.)	e typical for this cology significant site map sit map site	time of yegnificantly inturally prohibition in the control of the	disturbed? blematic? samplii ls t with	Are (If n ng point he Sample hin a Wetla	(If no, explain in Remarks.) "Normal Circumstances" present? Yes No needed, explain any answers in Remarks.) locations, transects, important features, of the composition o
re Vegetation, Soil, or Hydro re Vegetation, Soil, or Hydro re Vegetation, Soil, or Hydro UMMARY OF FINDINGS - Attach Hydrophytic Vegetation Present? Ye Hydric Soil Present? Ye Wetland Hydrology Present? Ye Remarks: Upland point EGETATION Tree Stratum (Use scientific names.)	ologysignlogy na h site map s es No es No es No	anificantly process of the control o	disturbed? blematic? samplii ls t with	Are (If n ng point he Sample hin a Wetla	P'Normal Circumstances" present? Yes No needed, explain any answers in Remarks.) locations, transects, important features, of Area and? Yes No Dominance Test worksheet: Number of Dominant Species
UMMARY OF FINDINGS – Attach Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Vermarks: Vpland point EGETATION Tree Stratum (Use scientific names.)	h site map s es No es No es No	Absolute % Cover	samplii Is t with	(If no point the Sample of the	Dominance Test worksheet: Number of Dominant Species
Hydrophytic Vegetation Present? Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? YeRemarks: Wpland point EGETATION Tree Stratum (Use scientific names.)	h site map s	Absolute % Cover	Is to with	he Sample hin a Wetla	Dominance Test worksheet: Number of Dominant Species
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? YeRemarks: Upland point EGETATION Tree Stratum (Use scientific names.)	es No es No	Absolute % Cover	Dominan Species?	he Sample hin a Wetla t Indicator Status	Dominance Test worksheet: Number of Dominant Species
Hydric Soil Present? Wetland Hydrology Present? Remarks: Upland point EGETATION Free Stratum (Use scientific names.)	es No	Absolute % Cover	Dominan Species?	t Indicator	Dominance Test worksheet: Number of Dominant Species
Hydric Soil Present? Wetland Hydrology Present? Remarks: Upland point EGETATION Tree Stratum (Use scientific names.)	es No	Absolute % Cover	Dominan Species?	t Indicator	Dominance Test worksheet: Number of Dominant Species
Remarks: Upland point EGETATION Tree Stratum (Use scientific names.)	-	Absolute % Cover	Dominan Species?	t Indicator Status	Dominance Test worksheet: Number of Dominant Species
EGETATION Tree Stratum (Use scientific names.)		% Cover	Species?	Status	Number of Dominant Species
EGETATION Tree Stratum (Use scientific names.)		% Cover	Species?	Status	Number of Dominant Species
EGETATION Tree Stratum (Use scientific names.)		% Cover	Species?	Status	Number of Dominant Species
ree Stratum (Use scientific names.) .		% Cover	Species?	Status	Number of Dominant Species
		% Cover	Species?	Status	Number of Dominant Species
	12				That Are OBL, FACW, or FAC: (A
•	<u> </u>				
					Total Number of Dominant
·					Species Across All Strata: (B)
	Total Cover: _				Percent of Dominant Species That Are OBL, FACW, or FAC:
apling/Shrub Stratum					mat Are OBL, PACW, or PAC (A)
·					Prevalence Index worksheet:
					Total % Cover of: Multiply by:
					OBL species x 1 =
					FACW species x 2 = FAC species x 3 =
. 202	Total Cover: _				FACU species x4 =
lerb Stratum MVVINVM	Total Cover	-037 (50)			UPL species x 5 =
		80	4	FACU	Column Totals: (A) (E
Centrarea solstitial	21	10	ń	UPI	- 1. 4
Rimex acetosila		10	n	UP	Prevalence Index = B/A =
Amsinckia menzies)		4	n	UPL	Hydrophytic Vegetation Indicators:
Capsella busa-pastoris			<u> </u>	FACU	Dominance Test is >50%
					Prevalence Index is ≤3.0¹
					 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
		1.25			Problematic Hydrophytic Vegetation ¹ (Explain)
oody Vine Stratum	Total Cover:	03			
					¹ Indicators of hydric soil and wetland hydrology must
					be present.
	Total Cover: _				Hydrophytic
Bare Ground in Herb Stratum	_ % Cover of	Biotic Cru	ust		Vegetation Present? YesNo
emarks:					
10.10					

Sampling Point:	IA
Sampling Point	1 1 1

	\sim	e	E
3	u	1	L

Depth Matrix	depth needed to document the indicator or con Redox Features	in the absence of indicators.)
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	
0-12" 75 YR 2/2 100		
076 PTR 212 100	L	Sandylvam
		
*	T	
¹ Type: C=Concentration, D=Depletion, F		, RC=Root Channel, M=Matrix.
Hydric Soil Indicators: (Applicable to	all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6)	
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	
Thick Dark Surface (A12)	Redox Depressions (F8)	2 %
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	³ Indicators of hydrophytic vegetation and
Sandy Gleyed Matrix (S4) Restrictive Layer (if present):		wetland hydrology must be present.
Type:		V
Depth (inches):		Hydric Soil Present? Yes No 🔨
		nydric son Plesent? TesNo
Remarks:		nyuric Suil Present? Tes No //
Remarks:		nydric Soil Plesent? Tes No
Remarks: YDROLOGY		
Remarks: YDROLOGY Wetland Hydrology Indicators:	(fficient)	Secondary Indicators (2 or more required)
Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (any one indicator is su		Secondary Indicators (2 or more required) Water Marks (B1) (Riverine)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (any one indicator is su Surface Water (A1)	Salt Crust (B11)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
YDROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicator is su Surface Water (A1) High Water Table (A2)	Salt Crust (B11) Biotic Crust (B12)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (any one indicator is su Surface Water (A1) High Water Table (A2) Saturation (A3)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
YDROLOGY Vetland Hydrology Indicators: Inimary Indicators (any one indicator is su Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
YDROLOGY Vetland Hydrology Indicators: Inimary Indicators (any one indicator is su Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
YDROLOGY Vetland Hydrology Indicators: Inimary Indicators (any one indicator is su Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (any one indicator is su Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living References	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) oots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (any one indicator is su Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Re Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) oots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8)
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Project/Site: North County Ca	ridor c	City/County:	anislaus	Sampling Date: 3/12/14
Applicant/Owner: Stanislaus County				
Investigator(s): MIKETruchiood, Da				
Landform (hillslope, terrace, etc.):	E LE LEL	Local relief (concave,	, convex, none):	Slope (%):
Subregion (LRR):	Lat:		Long:	Datum:
Soil Map Unit Name:			NWI classifica	ation:
Are climatic / hydrologic conditions on the site typ	ical for this time of yea	r? Yes 🗶 No_	(If no, explain in Re	emarks.)
Are Vegetation, Soil, or Hydrology	significantly d	isturbed? Are	"Normal Circumstances" pr	resent? Yes X No
Are Vegetation, Soil, or Hydrology	naturally prob	lematic? (If n	eeded, explain any answer	s in Remarks.)
SUMMARY OF FINDINGS - Attach si	te map showing	sampling point	locations, transects,	important features, etc.
	X No	Is the Sample		
	× No	within a Wetla	nd? Yes 🔨	No
Remarks:				1.541.5
		H	' i <u>iu</u>	
VEGETATION				
Tree Stratum (Use scientific names.)		Dominant Indicator Species? Status	Dominance Test works	
1			Number of Dominant Spo That Are OBL, FACW, or	
2.			Total Number of Domina	
3.			Species Across All Strata	,
4			Percent of Dominant Spe	
Sapling/Shrub Stratum	tal Cover:		That Are OBL, FACW, or	FAC: 100 (A/B)
1			Prevalence Index works	sheet:
			Total % Cover of:	
3.			OBL species	x1=
4.5.			FAC species	
	tal Cover:			x 4 =
Herb Stratum 1. GIUCEVIA declinata	115	Y Facw	UPL species	x 5 =
	40 50	Y Facw	Column Totals:	(A) (B)
2. Polygynum sp. 3. Lactuca serriola			Prevalence Index =	= B/A =
4			Hydrophytic Vegetation	
5		SLT	X Dominance Test is >	
6			Prevalence Index is :	
7			Morphological Adapt data in Remarks	ations ¹ (Provide supporting or on a separate sheet)
8	al Cover:		Problematic Hydroph	ytic Vegetation¹ (Explain)
Woody Vine Stratum	ai cover. 100			
1			Indicators of hydric soil a be present.	and wetland hydrology must
2	al Cover:	n Mil	Hydrophytic	
			Vegetation	Y
	% Cover of Biotic Crus	:t	Present? Yes	<u>Л</u> No
Remarks:				
				100

_	_		
•	^	11	
-			

Profile Description: (Desc Depth Mat			x Feature				
(inches) Color (mois		Color (moist)	<u>%</u>	Type	Loc ²	Texture	Remarks
D-4' 104R31	100						claylown
5-10" TOYR 3/2	95	75 YR 3/4	5	C	M		Clayloam
10-15" 7.5 TR3		73 12 11	-		<u></u>		The second secon
10 13 1. 3 1/2 3	100						Clayloan
			- ——	(9)			
Type: C=Concentration, D=			*Location	: PL=Por	e Lining, R		nel, M=Matrix.
lydric Soil Indicators: (Ap	pilcable to al			ed.)			for Problematic Hydric Soils ³ :
Histosol (A1)		Sandy Redo					Muck (A9) (LRR C)
Histic Epipedon (A2) Black Histic (A3)		Stripped Ma Loamy Muc	, ,	/E4\			Muck (A10) (LRR B)
Hydrogen Sulfide (A4)		Loamy Gley					ed Vertic (F18) arent Material (TF2)
Stratified Layers (A5) (LI	(RC)	Depleted Ma		(1 2)			(Explain in Remarks)
1 cm Muck (A9) (LRR D)	- /	X Redox Dark		F6)		00181	(mypan in Homarka)
Depleted Below Dark Su	face (A11)	Depleted Da	-	•			
Thick Dark Surface (A12		Redox Depr	essions (F	8)			
Sandy Mucky Mineral (S	•	Vernal Pools	s (F9)			3Indicators	of hydrophytic vegetation and
Sandy Gleyed Matrix (S4						wetland	hydrology must be present.
Restrictive Layer (if present	•						
Туре:						J	V
Depth (inches):			18			Hydric Soil	Present? Yes X No
Depth (inches):Remarks:			11 %	-		Hydric Soil	Present? Yes X No
Depth (inches):Remarks: CONCV(F10)	ns also		(Te)				
Depth (inches):Remarks: CONCV(F10) YDROLOGY Vetland Hydrology Indicato	ns also	observed	18			Secon	dary Indicators (2 or more required)
Depth (inches):	ns also	observed icient)	1 = 2			Secon	dary Indicators (2 or more required) /ater Marks (B1) (Riverine)
Depth (inches): Concy for	ns also	observed icient) Salt Crust (•			<u>Secon</u> W So	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine)
Depth (inches): Temarks: CONCY(FTO) TOROLOGY Vetland Hydrology Indicator (any one in Surface Water (A1) High Water Table (A2)	ns also	icient) Salt Crust (Biotic Crust	(B12)	(842)	- 12	<u>Secon</u> W So	dary Indicators (2 or more required) /ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine)
Depth (inches): temarks: CONCY (FTO) /DROLOGY /etland Hydrology Indicatorimary Indicators (any one in Surface Water (A1) High Water Table (A2) Saturation (A3)	ns also	icient) Salt Crust (Biotic Crust Aquatic Inve	t (B12) ertebrates			Secon W So Do Do	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicatorimary Indicators (any one in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriv	ns: dicator is suffi	icient) Salt Crust (Biotic Crust Aquatic Inve	t (B12) ertebrates Sulfide Ode	or (C1)	ining Poot	Secon W So Do Do	dary Indicators (2 or more required) Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2)
Depth (inches):	ns: dicator is suffi	icient) Salt Crust (Biotic Crust Aquatic Inve	t (B12) ertebrates Sulfide Ode hizosphere	or (C1) es along L		Secon W Si Di Di Di s (C3) Tr	dary Indicators (2 or more required) /ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) nin Muck Surface (C7)
Pepth (inches): COM CV (FD) YDROLOGY Vetland Hydrology Indicato Inmary Indicators (any one in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriv Sediment Deposits (B2) (I Drift Deposits (B3) (Nonri	ns: dicator is suffi	icient) Salt Crust (Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh	t (B12) ertebrates Sulfide Odd hizosphere f Reduced	or (C1) es along L Iron (C4)		Secon W Si Di Di Di s (C3) Tr Ci	dary Indicators (2 or more required) (ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) nin Muck Surface (C7) rayfish Burrows (C8)
Pepth (inches): Remarks: YDROLOGY Vetland Hydrology Indicato Primary Indicators (any one in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriv Sediment Deposits (B2) (I Drift Deposits (B3) (Nonri Surface Soil Cracks (B6)	ns: dicator is suffi erine) lonriverine) verine)	icient) Salt Crust (Biotic Crust Aquatic Inve Hydrogen S Oxidized Ri Presence of Recent Iron	t (B12) ertebrates Sulfide Odd hizosphere f Reduced Reduction	or (C1) es along L Iron (C4) n in Plowe		Secon W Si Di Di Di Th Ci S (C3) Th	dary Indicators (2 or more required) (ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) nin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C5)
Pepth (inches): Remarks: YDROLOGY Vetland Hydrology Indicato rimary Indicators (any one in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriv Sediment Deposits (B2) (I Drift Deposits (B3) (Nonri Surface Soil Cracks (B6) Inundation Visible on Aeric	erine) lonriverine) verine)	icient) Salt Crust (Biotic Crust Aquatic Invo Hydrogen S Oxidized Ri Presence of Recent Iron	t (B12) ertebrates Sulfide Odd hizosphere f Reduced Reduction	or (C1) es along L Iron (C4) n in Plowe		Secon W Si Di Di Th Color S (C3) Th Color S (C3) Si Si Si	dary Indicators (2 or more required) /ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) nin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (Cs) nallow Aquitard (D3)
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Per Marks: White Prince Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrive Sediment Deposits (B2) (Inundation Visible on Aerical Prince Water (B6) Inundation Visible on Aerical Prince Water (B6)	erine) lonriverine) verine) ll Imagery (B7) Yes Yes Yes	icient) Salt Crust (Biotic Crust Aquatic Invented Section 1988 Oxidized Rise Presence of Recent Iron Other (Explain 1988) Depth (inch D	t (B12) ertebrates Sulfide Odd hizosphere f Reduced Reduction ain in Ren nes):	or (C1) es along L Iron (C4) in in Plowe harks)	ed Soils (C	Secon	dary Indicators (2 or more required) /ater Marks (B1) (Riverine) rediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) nin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (Cs) nallow Aquitard (D3) AC-Neutral Test (D5)
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Project/Site: North County Corrido	×	City/Count	y: Sta	anislaus Sampling Date: 3/12/14
Applicant/Owner: Stanislaus County				
Investigator(s): MIKETruchlood/Damay				
				, convex, none): Slope (%):
				Long: Datum:
Soil Map Unit Name:				NWI classification:
Are climatic / hydrologic conditions on the site typical for		THE HE IS		(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology				"Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology				needed, explain any answers in Remarks.)
				locations, transects, important features, etc
Hydrophytic Vegetation Present? Yes 1	No		ī pél	
Hydric Soil Present? Yes			ne Sample	V
Wetland Hydrology Present? Yes	No X	With	nin a Wetla	ind? Yes No
Remarks:				La Taranta de Assa
JEOSTA TION				
/EGETATION			i .	
Tree Stratum (Use scientific names.)		Species?		Dominance Test worksheet: Number of Dominant Species That Are ORL FACW or FAC:
1 2				That Are OBL, FACW, or FAC: (A)
3.				Total Number of Dominant Species Across All Strata: (B)
4				Percent of Dominant Species
Total Cov Sapling/Shrub Stratum	er:	•		That Are OBL, FACW, or FAC: (A/B)
1				Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3				OBL species x1 =
4.				FACW species x 2 =
5.				FAC species x 3 =
	er:			FACU species x 4 =
Herb Stratum			5000	UPL species x 5 =
1. Rumex actosia		100	FACU	Column Totals: (A) (B)
Glycena decimata	- 72		FACW	200
3. Rumax cuspus	<u> 30</u> 50	ý_	EAK	Prevalence Index = B/A =
Rumex Sp.	III Waoii a	-)	FAC	Hydrophytic Vegetation Indicators:
5.				✓ Dominance Test is >50% Prevalence Index is ≤3.0¹
200				Morphological Adaptations ¹ (Provide supporting
				data in Remarks or on a separate sheet)
3Total Cov	2/1			Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum	al. 100			
	_			¹ Indicators of hydric soil and wetland hydrology must
2		= 1 A		be present.
Total Cove	er:			Hydrophytic
% Bare Ground in Herb Stratum % Cove	er of Biotic Cr	ust		Vegetation Present? Yes No
The state of the s				100
Remarks:	1 54.			
1,010-ch 3p assum	red tA(species	due To	presence in met area only
				. # 11

Sampling Point:	2	a	
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Depth Matrix	Redo	ox Features				
(inches) Color (moist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
D-12" 10 423/1 100%						Clan lagin
						()
10.1078						
						
						
			10			
True C-Consentation D-D-1-time BM D-	1 1. 4. 4. 2.	2				
Type: C=Concentration, D=Depletion, RM=Re		Location:	PL≈Pore	Lining, R	C=Root Cha	annel, M≃Matrix.
Hydric Soil Indicators: (Applicable to all LRI			a.)			rs for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Red					n Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Ma					n Muck (A10) (LRR B)
Black Histic (A3)	Loamy Muc					uced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gley		(F2) 📜			Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted M				Othe	er (Explain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark	•	•			
Depleted Below Dark Surface (A11)	Depleted Da					
Thick Dark Surface (A12)	Redox Depr	•	8)		525 Yr	
Sandy Mucky Mineral (S1)	Vernal Pool	s (F9)			3Indicator	rs of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)					wetlar	nd hydrology must be present.
Restrictive Layer (if present):			State Police Total			
Type:						\$7
.) р о	_					11/
	-				Hydric So	oil Present? Yes No.
Depth (inches):		10.00			Hydric So	il Present? Yes No
Depth (inches):			90		Hydric So	il Present? Yes No
Depth (inches):			- 956			—
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators:	-				Sec	ondary Indicators (2 or more required)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient					Seco	ondary Indicators (2 or more required) Water Marks (B1) (Riverine)
Depth (inches): Primary Indicators (any one indicator is sufficient Surface Water (A1)	Salt Crust (•			Seco	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Depth (inches): Proposition of the proposition of	Salt Crust (t (B12)			Seco	ondary Indicators (2 or more required) Water Marks (B1) (Riverine)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient Surface Water (A1)	Salt Crust (t (B12)	(B13)		Seco	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Depth (inches): PROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicator is sufficient Surface Water (A1) High Water Table (A2)	Salt Crust (t (B12) ertebrates			Seco	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Depth (inches):	Salt Crust (Biotic Crus Aquatic Inv	t (B12) ertebrates Sulfide Odo	r (C1)	ving Root	Seco	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Depth (inches):	Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized R	t (B12) ertebrates Sulfide Odo hizosphere	r (C1) s along Li	ving Root	Secondary Second	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7)
Depth (inches): Primary Indicators (any one indicator is sufficient Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence of	t (B12) ertebrates Sulfide Odo hizosphere f Reduced	r (C1) s along Li Iron (C4)		Secondary Second	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8)
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Depth (inches): Proposition (A3) Water Marks (B1) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	Salt Crust (Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror	t (B12) ertebrates Sulfide Odo hizosphere f Reduced n Reduction	r (C1) s along Li Iron (C4) i in Plowe		Secondary Second	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS
Principle (Inches): YDROLOGY Vetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) ield Observations:	Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror Other (Expl	t (B12) ertebrates Sulfide Odo hizosphere of Reduced n Reduction ain in Rem	r (C1) s along Li Iron (C4) i in Plowe		Secondary Second	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3)
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Primary Indicators (any one indicator is sufficient Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) ield Observations: urface Water Present? Yes No aturation Present? Yes No aturation Present? Yes No aturation Present? Yes No aturation Present? Yes No aturation Present? Yes No aturation Present? Yes No aturation Present? Yes No aturation Present? Yes No aturation Present? Yes No accordingly fringe)	Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror Other (Expl	t (B12) ertebrates Sulfide Odo hizosphere of Reduced n Reduction lain in Rem hes):	r (C1) s along Li lron (C4) n in Plowe arks)	d Soils (C	Second Se	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3) FAC-Neutral Test (D5)
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Primary Indicators (any one indicator is sufficient Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) ield Observations: urface Water Present? Yes No aturation Present? Yes No accludes capillary fringe) escribe Recorded Data (stream gauge, monitorical surface was presented to the control of the control	Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror Other (Expl	t (B12) ertebrates Sulfide Odo hizosphere of Reduced n Reduction lain in Rem hes):	r (C1) s along Li lron (C4) n in Plowe arks)	d Soils (C	Second Se	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (any one indicator is sufficient Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) ield Observations: urface Water Present? Yes No aturation Present? Yes No aturation Present? Yes No aturation Present? Yes No aturation Present? Yes No aturation Present? Yes No aturation Present? Yes No aturation Present? Yes No aturation Present? Yes No aturation Present? Yes No accordingly fringe)	Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror Other (Expl	t (B12) ertebrates Sulfide Odo hizosphere of Reduced n Reduction lain in Rem hes):	r (C1) s along Li lron (C4) n in Plowe arks)	d Soils (C	Second Se	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators: Primary Indicators (any one indicator is sufficient Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) ield Observations: urface Water Present? Yes No acturation Present? Yes No acturation Present? Yes No accuration Prese	Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror Other (Expl	t (B12) ertebrates Sulfide Odo hizosphere of Reduced n Reduction lain in Rem hes):	r (C1) s along Li lron (C4) n in Plowe arks)	d Soils (C	Second Se	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Popth (inches): Commarks	Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror Other (Expl	t (B12) ertebrates Sulfide Odo hizosphere of Reduced n Reduction lain in Rem hes):	r (C1) s along Li lron (C4) n in Plowe arks)	d Soils (C	Second Se	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3) FAC-Neutral Test (D5)

Project/Site: North County Corrido		City/Co	unty: 5to	anislaus	Sampling Date: 3/12/14
Applicant/Owner: Stanislaus County					
Investigator(s): MIKETrue HOOd Dayhaw					
Landform (hillslope, terrace, etc.):		Local	elief (concave,	, convex, none):	Slope (%):
Subregion (LRR):	Lat:			Long:	Datum:
Soil Map Unit Name:					
Are climatic / hydrologic conditions on the site typical for t					
Are Vegetation, Soil, or Hydrology					present? Yes V No
Are Vegetation, Soil, or Hydrology				eeded, explain any answe	
SUMMARY OF FINDINGS – Attach site mag			<u>, </u>		
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes Yes	No X		s the Sample within a Wetla		No <u>X</u>
Remarks:			8 30	1	
VEGETATION					
Tree Stratum (Use scientific names.) 1.	% Cover	Specie	ant Indicator	Number of Dominant S That Are OBL, FACW,	pecies
2				Total Number of Domin Species Across All Stra	The state of the s
4Total Cove	 er:			Percent of Dominant Sp That Are OBL, FACW,	
Sapling/Shrub Stratum					2
1.				Prevalence Index wor	= **
2				Total % Cover of:	Multiply by: x 1 =
3				· · · · · · · · · · · · · · · · · · ·	x 1
4 5					x3 =
				1	x 4 =
Herb Stratum		Q =			x 5 =
	50	<u> </u>	A CONTRACTOR OF THE PARTY OF TH	Column Totals:	(A)(B)
2. Rumex Sp.	30	1	Fac	Decuelance Index	- P/A -
3. Glycena spacinata 4. Rumex autosella		N	Facu	Hydrophytic Vegetation	= B/A =
			- MEO	Dominance Test is	
5 6				Prevalence Index is	
7.				Morphological Ada	otations ¹ (Provide supporting sor on a separate sheet)
8Total Cove				Problematic Hydrop	ohytic Vegetation¹ (Explain)
Woody Vine Stratum					
1				¹ Indicators of hydric soil be present.	and wetland hydrology must
2	<u> </u>		- 19 H	be present.	0.11
Total Cove	r:			Hydrophytic Vegetation	**
% Bare Ground in Herb Stratum % Cove	r of Biotic Cr	ust		Present? Yes	. No
Hunex Sp. assumed FA	C Species	due	to present	e in metarca onl	y

Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Lo	
0-12" 7.57R 311 100"	9	clayloan
		3
Type: C=Concentration, D=Depletion, R		ng, RC=Root Channel, M=Matrix.
lydric Soil Indicators: (Applicable to a		Indicators for Problematic Hydric Soils ³ :
_ Histosol (A1)	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
_ Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
_ Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
_ Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remarks)
_ 1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6)	
_ Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	
_ Thick Dark Surface (A12)	Redox Depressions (F8)	
_ Sandy Mucky Mineral (S1)	Vernal Pools (F9)	³ Indicators of hydrophytic vegetation and
_ Sandy Gleyed Matrix (S4)		wetland hydrology must be present.
estrictive Layer (if present):		
Type:		
Depth (inches):		Hydric Soil Present? Yes No X
emarks:		
DROLOGY		
DROLOGY		Secondary Indicators (2 or more required)
etland Hydrology Indicators:	fficient)	Secondary Indicators (2 or more required)
etland Hydrology Indicators: imary Indicators (any one indicator is suf		Water Marks (B1) (Riverine)
etland Hydrology Indicators: imary Indicators (any one indicator is suf _ Surface Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
etland Hydrology Indicators: imary Indicators (any one indicator is suf _ Surface Water (A1) _ High Water Table (A2)	Salt Crust (B11) Biotic Crust (B12)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
etland Hydrology Indicators: imary Indicators (any one indicator is suf _ Surface Water (A1) _ High Water Table (A2) _ Saturation (A3)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
etland Hydrology Indicators: imary Indicators (any one indicator is suf Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
etland Hydrology Indicators: imary Indicators (any one indicator is suf Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
etland Hydrology Indicators: imary Indicators (any one indicator is suf Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
etland Hydrology Indicators: imary Indicators (any one indicator is suf Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8)
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etland Hydrology Indicators: imary Indicators (any one indicator is suf Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Water-Stained Leaves (B9)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed So Other (Explain in Remarks) No Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) ils (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
etland Hydrology Indicators: imary Indicators (any one indicator is suf Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Water-Stained Leaves (B9) Indicator Ves Water Table Present? Yes Indicator is sufficiently suffin	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed So Other (Explain in Remarks) No Depth (inches):	
etland Hydrology Indicators: imary Indicators (any one indicator is suf Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Water-Stained Leaves (B9) Indicator Water Present? Indicator Yes Indicator Indicator Indicator Is sufficiently Indicator Indicator Is sufficiently Indicator Indicator Is sufficiently Indicator Indicator Is sufficiently Indicator I	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed So Other (Explain in Remarks) No Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) ils (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
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etland Hydrology Indicators: imary Indicators (any one indicator is suf Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Water-Stained Leaves (B9) eld Observations: rface Water Present? Atter Table Present? Ves Luration Present? Ves Luration Present? Ves Ludes capillary fringe) scribe Recorded Data (stream gauge, mo	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed So Other (Explain in Remarks) No Depth (inches): No Depth (inches): V	
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etland Hydrology Indicators: imary Indicators (any one indicator is suf Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Water-Stained Leaves (B9) eld Observations: rface Water Present? Atter Table Present? Ves Luration Present? Ves Luration Present? Ves Ludes capillary fringe) scribe Recorded Data (stream gauge, mo	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed So Other (Explain in Remarks) No Depth (inches): No Depth (inches): V	

		City/County	Sto	ANISIAUS Sampling Date: 3/12/14
Applicant/Owner: Stanislaus County				State: CA Sampling Point: 3
Investigator(s): MIKETYUEHI OODIDAYNAWINC				
Landform (hillslope, terrace, etc.):				
Subregion (LRR):				
Soil Map Unit Name:				
Are climatic / hydrologic conditions on the site typical for this ti				
Are Vegetation, Soil, or Hydrology sign				"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology nate SUMMARY OF FINDINGS - Attach site map site.				eeded, explain any answers in Remarks.) locations, transects, important features, etc
Hydrophytic Vegetation Present? Yes No _		la th	Samula	
Hydric Soil Present? YesX_ No _	V 9		Sampleo n a Wetla	
Wetland Hydrology Present? Yes No _	_X	***************************************	ii a vvetia	16510
Remarks: Disced basin VEGETATION				
	Absolute	Dominant	ladiaatas	Dominance Test worksheet:
<u>Tree Stratum</u> (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2. 3.				Total Number of Dominant Species Across All Strata: (B)
4				Percent of Dominant Species
Sapling/Shrub Stratum				That Are OBL, FACW, or FAC: (A/B)
1				Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
3				OBL species x 1 =
4 = =				FACW species x 2 =
5				FAC species x 3 =
Total Cover: Herb Stratum				FACU species x 4 =
1. unidentified annual grass 5	5	Yes	-	UPL species x 5 = Column Totals: (A) (B)
				Column Totals: (A) (B)
3		1911' 1		Prevalence Index = B/A =
4. <u> </u>		<u> </u>		Hydrophytic Vegetation Indicators:
5. <u>11. 1151 V. 1111 V</u>			5 5511	Dominance Test is >50%
6			· · · · · ·	Prevalence Index is ≤3.01
7				Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
Total Cover: 5	5			Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum				
1				¹ Indicators of hydric soil and wetland hydrology must be present.
2				be present.
Total Cover:		st		Hydrophytic Vegetation Present? Yes No
Visetation Criteria not Usidenti Scuble.	Sed B	asik	recent	ty discad, vegetation not

~		
•	\sim	
-	UJI	

Depth	Matrix			ox Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc2	Texture	Remarks
							Land of	1 2
0-8	104R3/2	100	W		_	_		Coarse sandy loan -
8-11	104n3/2	95	7.5484/4	5	(M		4
	101016							Coarse Sandy loam
		_						
	ncentration, D=Depl			²Location:	PL≈Por	e Lining, F		nel, M=Matrix.
	ndicators: (Applica	ible to all			ed.)			for Problematic Hydric Soils ³ :
Histosol	•		Sandy Red					Muck (A9) (LRR C)
-	ipedon (A2)		Stripped M		(E4)			Muck (A10) (LRR B)
_ Black His	• •		Loamy Muc	-	. ,			ed Vertic (F18)
	Sulfide (A4)		Loamy Gle		(F2) 🖟			arent Material (TF2)
	Layers (A5) (LRR C)	Depleted M		-0\		Other	(Explain in Remarks)
	ck (A9) (LRR D)	(844)	X Redox Dark					
	Below Dark Surface k Surface (A12)	(A11)	Depleted D					
			Redox Dep Vernal Pool	•	8)		3, 1,	
	ucky Mineral (S1) eyed Matrix (S4)		Vernai Pool	s (F9)				of hydrophytic vegetation and
	ayer (if present):	-1.4.					wetiand	hydrology must be present.
paulictive P	ayer (ir present).							
-								
Туре:			_					V
Depth (inclemarks:	nes):	A To	p 8 incles			1.00	Hydric Soil	Present? Yes X No
Depth (inclemarks:	onl disce	of To	p 8 incles				Hydric Soll	Present? Yes No
Depth (inchemarks:	onl disce	of To	p 8 incles					
Depth (incleanance) Store DROLOGetland Hydre	orl discary						Secon	dary Indicators (2 or more required)
Depth (incleanance) DROLOG Stland Hydrica	Y ology Indicators: tors (any one indicate		ent)				Secon W	dary Indicators (2 or more required) ater Marks (B1) (Riverine)
Depth (inclemarks: DROLOG Stland Hydr mary Indica Surface W	ology Indicators: tors (any one indicated)		ent) Salt Crust ((B11)			<u>Secon</u> W So	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine)
Depth (incleanance) DROLOG Stland Hydre mary Indica Surface W High Wate	ology Indicators: tors (any one indicate fater (A1) r Table (A2)		ent) Salt Crust (Biotic Crus	(B11) t (B12)	(0.42)		<u>Secon</u> W So Do	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine)
Depth (inclemanks: DROLOG etland Hydr imary Indica Surface W High Wate Saturation	ology Indicators: tors (any one indicators (A1) or Table (A2) (A3)	or is suffici	ent) Salt Crust (Biotic Crus Aquatic Inv	(B11) t (B12) ertebrates	-		Secon W Se	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10)
Depth (incleanance) DROLOG Stland Hydre Mary Indica Surface W High Wate Saturation Water Mary	ology Indicators: tors (any one indicate later (A1) or Table (A2) (A3) ks (B1) (Nonrivering	or is suffici	ent) Salt Crust (Biotic Crus Aquatic Inv	(B11) t (B12) ertebrates Gulfide Odo	r (C1)		Secon	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2)
DROLOG etland Hydr mary Indica Surface W High Wate Saturation Water Mar Sediment	ology Indicators: tors (any one indicate dater (A1) or Table (A2) (A3) ks (B1) (Nonriverine	or is suffici a) verine)	ent) Salt Crust (Biotic Crus Aquatic Inv Hydrogen S Oxidized R	(B11) t (B12) ertebrates Sulfide Odo	r (C1) s along Li	-	Secon W Secon Di Di Di Secon Di Secon Tr	dary Indicators (2 or more required) (ater Marks (B1) (Riverine) (adiment Deposits (B2) (Riverine) (adiment Deposits (B3) (Riverine) (adiment Deposits (B10) (adiment Deposits
Depth (inclemarks: DROLOG etland Hydre imary Indica Surface W High Wate Saturation Water Mar Sediment I Drift Depos	ology Indicators: tors (any one indicate later (A1) or Table (A2) (A3) ks (B1) (Nonriverine Deposits (B2) (Nonriverine sits (B3) (Nonriverine	or is suffici a) verine)	ent) Salt Crust (Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence o	(B11) t (B12) ertebrates Sulfide Odo hizosphere	or (C1) s along Li Iron (C4)		Secon W Secon Di Di Secon Di Secon Tr	dary Indicators (2 or more required) (ater Marks (B1) (Riverine) (adiment Deposits (B2) (Riverine) (adiment Deposits (B3) (Riverine) (adiment Deposits (B10) (adiment Deposits
Depth (inchemarks: DROLOG etland Hydremary Indica Surface We High Water Saturation Water Mare Sediment Indicates Drift Deposites	ology Indicators: tors (any one indicate dater (A1) or Table (A2) (A3) ks (B1) (Nonriverine	or is suffici a) verine)	ent) Salt Crust (Biotic Crus Aquatic Inv Hydrogen S Oxidized R	(B11) t (B12) ertebrates Sulfide Odo hizosphere	or (C1) s along Li Iron (C4)		Secon W Secon Di Di Secon Di Secon Tr	dary Indicators (2 or more required) (ater Marks (B1) (Riverine) (adiment Deposits (B2) (Riverine) (adiment Deposits (B3) (Riverine) (adiment Deposits (B10) (adiment Deposits
Depth (inchemarks: DROLOG etland Hydre imary Indica Surface We High Wate Saturation Water Mar Sediment in Drift Depose Surface So	ology Indicators: tors (any one indicate later (A1) or Table (A2) (A3) ks (B1) (Nonriverine Deposits (B2) (Nonriverine sits (B3) (Nonriverine	or is suffici	ent) Salt Crust (Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence o	(B11) t (B12) ertebrates Sulfide Odo hizosphere f Reduced n Reduction	or (C1) s along Li Iron (C4) i in Plowe		Secon W Si Di Di Th Cr 6) X Sa	dary Indicators (2 or more required) (ater Marks (B1) (Riverine) (adiment Deposits (B2) (Riverine) (adiment Deposits (B3) (Riverine) (adiment Deposits (B10) (adiment Deposits
Depth (inclemarks: DROLOG etland Hydre imary Indica Surface W High Water Saturation Water Mar Sediment I Drift Depos Surface So Inundation	ology Indicators: tors (any one indicate dater (A1) ir Table (A2) (A3) ks (B1) (Nonriverine Deposits (B2) (Nonriverine sits (B3) (Nonriverine oil Cracks (B6)	or is suffici	ent) Salt Crust (Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence o	(B11) t (B12) ertebrates Sulfide Odo hizosphere f Reduced n Reduction	or (C1) s along Li Iron (C4) i in Plowe		Secon W Si Di Di Th Cr S (C3) Th S (C3) Th S (C3) Si	dary Indicators (2 or more required) rater Marks (B1) (Riverine) rational Deposits (B2) (Riverine) ratinage Patterns (B10) ry-Season Water Table (C2) ratin Muck Surface (C7) rayfish Burrows (C8) raturation Visible on Aerial Imagery (Callow Aquitard (D3)
DROLOG etland Hydr imary Indica Surface W High Water Saturation Water Mar Sediment I Drift Depos Surface So Inundation Water-Stai	ology Indicators: tors (any one indicate tater (A1) or Table (A2) (A3) ks (B1) (Nonriverine Deposits (B2) (Nonriverine sits (B3) (Nonriverine oil Cracks (B6) Visible on Aerial Imaned Leaves (B9)	or is suffici	ent) Salt Crust (Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence o	(B11) t (B12) ertebrates Sulfide Odo hizosphere f Reduced n Reduction	or (C1) s along Li Iron (C4) i in Plowe		Secon W Si Di Di Th Cr S (C3) Th S (C3) Th S (C3) Si	dary Indicators (2 or more required) (ater Marks (B1) (Riverine) (adiment Deposits (B2) (Riverine) (adinage Patterns (B10) (ay-Season Water Table (C2) (adin Muck Surface (C7) (ayfish Burrows (C8) (aturation Visible on Aerial Imagery (C
Depth (inclemarks: DROLOG etland Hydrimary Indica Surface W High Wate Saturation Water Mar Sediment I Drift Depos Surface So Inundation Water-Stai	ology Indicators: tors (any one indicators) tater (A1) or Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine) tots (B3) (Nonriverine) tots (B3) (Nonriverine) tots (B6) Visible on Aerial Image and Leaves (B9)	or is suffici	ent) Salt Crust (Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror Other (Expl	(B11) t (B12) ertebrates Sulfide Odo hizosphere f Reduced Reduction	or (C1) s along Li Iron (C4) i in Plowe		Secon W Si Di Di Th Cr S (C3) Th S (C3) Th S (C3) Si	dary Indicators (2 or more required) rater Marks (B1) (Riverine) rational Deposits (B2) (Riverine) ratinage Patterns (B10) ry-Season Water Table (C2) ratin Muck Surface (C7) rayfish Burrows (C8) raturation Visible on Aerial Imagery (Callow Aquitard (D3)
Depth (inchemarks: DROLOG etland Hydreimary Indica Surface Webselve High Water Mare Sediment of Drift Deposed Surface Science Science Science Science Science Water States of Observatoriace Water States Science Water Science Water Science Water Science Science Water Science Water Science Science Science Water Science Scie	ology Indicators: tors (any one indicators) tater (A1) or Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine) District (B3) (Nonriverine) Oli Cracks (B6) Visible on Aerial Imand Leaves (B9) tions: Present? Yes	or is suffici	ent) Salt Crust (Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror Other (Expl	(B11) t (B12) ertebrates of Sulfide Odo hizosphere: f Reduced n Reduction ain in Remain	or (C1) s along Li Iron (C4) i in Plowe		Secon W Si Di Di Th Cr S (C3) Th S (C3) Th S (C3) Si	dary Indicators (2 or more required) rater Marks (B1) (Riverine) rational Deposits (B2) (Riverine) ratinage Patterns (B10) ry-Season Water Table (C2) ratin Muck Surface (C7) rayfish Burrows (C8) raturation Visible on Aerial Imagery (Callow Aquitard (D3)
Depth (inchemarks: DROLOG etland Hydrimary Indica Surface W High Water Mar Sediment Drift Depose Surface Solinundation Water-Stain Water-Stain Water-Stain Hid Observation	ology Indicators: tors (any one indicators (any one indicators) tater (A1) or Table (A2) (A3) dks (B1) (Nonrivering (A3) dks (B3) (Nonrivering (A3) distribution (A3) distribu	or is suffici	ent) Salt Crust (Biotic Crust (Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror Other (Expl	(B11) t (B12) ertebrates Sulfide Odo hizosphere f Reduced n Reduction ain in Remain	or (C1) s along Li Iron (C4) i in Plowe	d Soils (C	Secon W Si Di Di Co S (C3) Th Co Si Si FA	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) sin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (Callow Aquitard (D3) aC-Neutral Test (D5)
Depth (inchemarks: DROLOG etland Hydremary Indica Surface Water Mar Sediment in Drift Deposions Surface Solution Water-Stain Indication Water-Stain Water-Stain Indicator Water Mar Indicator Water Stain Indicator Table Proturation Press	ology Indicators: tors (any one indicators (any one indicators (ater (A1) or Table (A2) (A3) ks (B1) (Nonrivering (A3) ks (B3) (Nonrivering (A3) ks (B3) (Nonrivering (B3) (No	or is suffici	ent) Salt Crust (Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence o Recent Iror Other (Expl	(B11) t (B12) ertebrates Sulfide Odo hizosphere f Reduced n Reduction ain in Remain	or (C1) s along Li Iron (C4) i in Plowe	d Soils (C	Secon W Si Di Di Co S (C3) Th Co Si Si FA	dary Indicators (2 or more required) rater Marks (B1) (Riverine) rational Deposits (B2) (Riverine) ratinage Patterns (B10) ry-Season Water Table (C2) ratin Muck Surface (C7) rayfish Burrows (C8) raturation Visible on Aerial Imagery (Callow Aquitard (D3)
Depth (inchemarks: DROLOG etland Hydremary Indica Surface Water Mare Saturation Water Mare Sediment of Drift Deposed Surface Scale of Depth Surface Scale of Depth Surface Water State Table Proturation Presedudes capilla	ology Indicators: tors (any one indicators (any one indicators (ater (A1) or Table (A2) (A3) ks (B1) (Nonrivering (A3) ks (B3) (Nonrivering (A3) ks (B3) (Nonrivering (B3) (No	or is suffici	ent) Salt Crust (Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror Other (Expl	(B11) t (B12) ertebrates Sulfide Odo hizosphere of Reduced n Reduction ain in Remain hes): 7	or (C1) s along Li lron (C4) in Plowe arks)	d Soils (C	Secon W Secon W Secon W Secon Secon Secon W Secon Seco	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) sin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (Callow Aquitard (D3) aC-Neutral Test (D5)
Depth (inchemarks: DROLOG Vetland Hydromary Indica Surface Water Mare Saturation Water Mare Sediment of Drift Depose Surface Solution Water-Stain Place Water water Table Protugation Prescuedes capillar	ology Indicators: tors (any one indicators) tater (A1) or Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine) Ologosits (B3) (Nonriverine) Ologosits (B6) Visible on Aerial Imand Leaves (B9) tions: Present? Yes ent? Yes ent? Yes ary fringe)	or is suffici	ent) Salt Crust (Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror Other (Expl	(B11) t (B12) ertebrates Sulfide Odo hizosphere of Reduced n Reduction ain in Remain hes): 7	or (C1) s along Li lron (C4) in Plowe arks)	d Soils (C	Secon W Secon W Secon W Secon Secon Secon W Secon Seco	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) sin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (Callow Aquitard (D3) aC-Neutral Test (D5)
Depth (inchemarks: "DROLOG" Torritand Hydren Timary Indicates Surface Water Mare Sediment In Drift Deposed Surface Sediment In Drift Deposed Surface Sediment In Water-Stain Water-Stain In Water Mare Table Protocological Prescribe Records Recor	ology Indicators: tors (any one indicators) tater (A1) or Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine) Ologosits (B3) (Nonriverine) Ologosits (B6) Visible on Aerial Imand Leaves (B9) tions: Present? Yes ent? Yes ent? Yes ary fringe)	or is suffici	ent) Salt Crust (Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror Other (Expl	(B11) t (B12) ertebrates Sulfide Odo hizosphere of Reduced n Reduction ain in Remain hes): 7	or (C1) s along Li lron (C4) in Plowe arks)	d Soils (C	Secon W Secon W Secon W Secon Secon Secon W Secon Seco	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) sin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (Callow Aquitard (D3) aC-Neutral Test (D5)

Project/Site: Novm County Covid	0	City/County:	Sampling Date: 3/12/14
Applicant/Owner: Stanislaus County			State: CA Sampling Point: 4
Investigator(s): MIKETYUE Blood		Section, Township,	Range:
Landform (hillslope, terrace, etc.):	ll a d'	Local relief (concav	e, convex, none): Slope (%):
Subregion (LRR):	Lat:		Long: Datum:
Soil Map Unit Name:			NWI classification:
Are climatic / hydrologic conditions on the site typical fo	r this time of ye	ear? YesX_ No	
Are Vegetation, Soil, or Hydrology			e "Normal Circumstances" present? Yes X
Are Vegetation, Soil, or Hydrology			needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site ma	ap showing	sampling point	locations, transects, important features, etc
Hydrophytic Vegetation Present? Yes X	No	Is the Sampl	ed Area
Hydric Soil Present? Yes		within a Wet	1.00
<u> </u>	No		
Remarks:			
VEGETATION			
	Absolute	Dominant Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Use scientific names.) 1		Species? Status	
2			Total Number of Dominant
3			Species Across All Strata: (B)
			Percent of Dominant Species
Total Co Sapling/Shrub Stratum	ver:		That Are OBL, FACW, or FAC:
1			Prevalence Index worksheet:
2			Total % Cover of: Multiply by:
3			OBL species x 1 =
4.			FACW species x 2 =
			FAC species x 3 =
Total Co	ver:		FACU species x 4 =
1. Centaura solshtralis	5	no upi	UPL species x 5 =
2. Unknown annual grass	10	no _	Column Totals: (A) (B)
3. Juneus : effesus	40	Ges FAKW	Prevalence Index = B/A =
4. Cypens eraspostis	5	no Facw	Hydrophytic Vegetation Indicators:
5. Polygonum sp.	_16	no FAKW	→ Dominance Test is >50%
6. Eleochans magrastachya	_ 5	no OBL	Prevalence Index is ≤3.0 ¹
7. Rangenerius sp	55	yes obj	Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
8			Problematic Hydrophytic Vegetation (Explain)
Total Cov Woody Vine Stratum	ver: 130		(Explain)
1			¹ Indicators of hydric soil and wetland hydrology must
2			be present.
Total Cov	/er:		Hydrophytic
			Vegetation
	er of Biotic Cr	ust	Present? Yes No
Remarks:			

Depth	Matrix		Redox	x Feature			n the absenc	
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type1	Loc ²	Texture	Remarks
0-10	7.54R - 91	80	25 TR 36	10	C	M		Sanduloam
			SYK 5/8	10	-	M		Sandyloam
1011			-16 0/1	10				
10								hard claypan
1.//1								
	/							
9					<u>ti</u>			
	oncentration, D=Dep			² Location	: PL=Pore	Lining, R	C=Root Char	nnel, M=Matrix.
Hydric Soil	Indicators: (Applica	able to all	LRRs, unless other	wise note	ed.)			for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Redox	x (S5)				Muck (A9) (LRR C)
Histic E	pipedon (A2)		Stripped Mat					Muck (A10) (LRR B)
Black Hi	istic (A3)		Loamy Muck	y Minera	(F1)		_	ced Vertic (F18)
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix	(F2)			Parent Material (TF2)
Stratified	d Layers (A5) (LRR C	;)	Depleted Ma		- 60			(Explain in Remarks)
1 cm Mu	ıck (A9) (LRR D)		Redox Dark	Surface (F6)			,
	d Below Dark Surface	(A11)	Depleted Date	rk Surfac	e (F7)			
	ark Surface (A12)		Redox Depre		8)			
	lucky Mineral (S1)		Vernal Pools	(F9)			3Indicators	of hydrophytic vegetation and
	leyed Matrix (S4)					-500 - 500	wetland	hydrology must be present.
Restrictive L	_ayer (if present):							
Туре:							ł	- 1
Depth (inc	ches):	N 1					Hydric Soil	Present? Yes No
Remarks:			•					
	laypan	21	Oinches					
C		21	Oincheo					
YDROLOG		21	Dinchus				Secor	ndary Indicators (2 or more required)
YDROLO(GY							ndary Indicators (2 or more required) Vater Marks (B1) (Riverine)
YDROLOG Vetland Hyd	GY Irology Indicators: ators (any one indicat		ient)	311)			v	Vater Marks (B1) (Riverine)
YDROLO Vetland Hyd rimary Indica	GY Irology Indicators: ators (any one indicat Nater (A1)		ient) Salt Crust (E				v	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine)
YDROLOG Vetland Hyd Primary Indica Surface V	GY Irology Indicators: ators (any one indicat Water (A1) ier Table (A2)		ient) Salt Crust (E Biotic Crust	(B12)	(B13)		w s D	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine)
YDROLOG Vetland Hyd Primary Indica Surface \ High Wat Saturatio	GY Irology Indicators: ators (any one indicat Nater (A1) ter Table (A2) n (A3)	tor is suffic	ient) Salt Crust (E Biotic Crust Aquatic Inve	(B12) rtebrates			w s b	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rrift Deposits (B3) (Riverine) rainage Patterns (B10)
YDROLOG Vetland Hyd Primary Indice Surface V High Wal Saturatio Water Ma	GY Irology Indicators: ators (any one indicators) Vater (A1) ter Table (A2) n (A3) arks (B1) (Nonriverin	tor is suffic	ient) Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si	(B12) rtebrates ulfide Ode	or (C1)		v s b d	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2)
YDROLOG Vetland Hyd Primary Indica Surface N High Wat Saturatio Water Ma	GY Irology Indicators: ators (any one indicators) Vater (A1) ter Table (A2) n (A3) arks (B1) (Nonrivering) t Deposits (B2) (Nonrivering)	tor is suffic ne) riverine)	ient) Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh	(B12) rtebrates ulfide Odd izosphere	or (C1) es along Li	-	V S D D D	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) hin Muck Surface (C7)
YDROLOG Vetland Hyd Primary Indica Surface V High Wat Saturatio Water Ma Sediment Drift Depo	GY Irology Indicators: ators (any one indicators) Vater (A1) ter Table (A2) In (A3) Irology (Nonrivering) It Deposits (B2) (Nonrivering) Irology (B3) (Nonrivering)	tor is suffic ne) riverine)	ient) Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh	(B12) rtebrates ulfide Odd izosphere Reduced	or (C1) es along Li I Iron (C4)		W S D D D D T C	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) hin Muck Surface (C7) rayfish Burrows (C8)
YDROLOG Vetland Hyd Primary Indica Surface V High Wat Saturatio Water Mat Sediment Drift Depo	Irology Indicators: ators (any one indicators) Nater (A1) ter Table (A2) in (A3) arks (B1) (Nonrivering to Deposits (B2) (Nonrivering soil Cracks (B6)	tor is suffic ne) riverine) ne)	ient) Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron	(B12) Intebrates Ulfide Odd Izosphere Reduced Reduction	or (C1) es along Li I Iron (C4) n in Plowe		W S D D D D T C	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) hin Muck Surface (C7)
YDROLO Vetland Hyd Primary Indice Surface \ High Wat Saturatio Water Ma Sediment Drift Depo	Irology Indicators: ators (any one indicators) Arter (A1) ter Table (A2) In (A3) Irological (Nonrivering) Irological (B2) (Nonrivering) Irological (B3) (Nonrivering) Irological (B4) Ir	tor is suffic ne) riverine) ne)	ient) Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron	(B12) Intebrates Ulfide Odd Izosphere Reduced Reduction	or (C1) es along Li I Iron (C4) n in Plowe			Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rrift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) hin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C8) hallow Aquitard (D3)
YDROLO Vetland Hyd Primary Indice Surface \ High Wat Saturatio Water Ma Sediment Drift Depo	GY Irology Indicators: ators (any one indicators) ators (A1) are Table (A2) arks (B1) (Nonrivering at Deposits (B2) (Nonrivering asits (B3) (B3)	tor is suffic ne) riverine) ne)	ient) Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron	(B12) Intebrates Ulfide Odd Izosphere Reduced Reduction	or (C1) es along Li I Iron (C4) n in Plowe			Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) hin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C
YDROLOG Vetland Hyde Primary Indice Surface N High Wate Saturatio Water Ma Sediment Drift Depo Surface S Inundatio Water-Sta	GY Irology Indicators: ators (any one indicators) Auter (A1) ter Table (A2) In (A3) arks (B1) (Nonrivering) It Deposits (B2) (Nonrivering) It (B3) (Nonrivering) It (B4) (B6) In (Visible on Aerial Implications) It (B4) I	tor is suffic ne) ne) ne)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent Iron Other (Expla	(B12) Intebrates Intebrates Italian It	or (C1) es along Li I Iron (C4) n in Plowe			Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rrift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) hin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C8) hallow Aquitard (D3)
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YDROLOG Vetland Hyd Primary Indica Surface V High Water Saturation Water Mater Sediment Drift Deporation Surface Sediment Water-State Inundation Water-State Wate	GY Irology Indicators: ators (any one indicators) Auter (A1) ter Table (A2) In (A3) Irologists (B1) (Nonrivering to Deposits (B2) (Nonrivering Coil Cracks (B6) In Visible on Aerial Immained Leaves (B9) ations: Ir Present?	tor is suffic ne) ne) ne)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Other (Expla	(B12) Intebrates ulfide Ode izosphere Reduced Reduction in in Ren	or (C1) es along Li I Iron (C4) n in Plowe narks)			Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rrift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) hin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C8) hallow Aquitard (D3)
YDROLOG Vetland Hyd Primary Indica Surface V High Water Saturation Water Ma Sediment Drift Depo Surface S Inundation Water-Sta ield Observen Vater Table F	GY Irology Indicators: ators (any one indicators) Auter (A1) ter Table (A2) In (A3) In (A3) In (A3) In (B1) (Nonrivering (B2) (Nonrivering (B3) (Nonrivering	tor is sufficiently sufficientl	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Other (Expla	(B12) rtebrates ulfide Odd izosphere Reduced Reduction in in Ren es):	or (C1) es along Li I Iron (C4) n in Plowe narks)	d Soils (C		Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rrift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) hin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (Cthallow Aquitard (D3) AC-Neutral Test (D5)
YDROLOG Vetland Hyd Primary Indice Surface V High Wafe Saturatio Water Ma Sediment Drift Depo Surface S Inundatio Water-Sta Vetled Observe urface Water Vater Table F aturation Pre Includes capit	GY Irology Indicators: ators (any one indicators) Auter (A1) ter Table (A2) In (A3) Irologists (B1) (Nonrivering to Deposits (B2) (Nonrivering to Deposits (B3) (Nonrivering to Deposits (B6) (Nonrivering to Deposits (B6)) In Visible on Aerial Implained Leaves (B9) In Visible on Aerial Implained Leaves (B9) Ir Present?	tor is sufficient se) riverine) ne) agery (B7)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Other (Expla	(B12) rtebrates ulfide Odd izosphere Reduced Reduction in in Ren es): es): 7	or (C1) es along Li I Iron (C4) n in Plowe narks)	d Soils (C		Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rrift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) hin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C8) hallow Aquitard (D3)
YDROLOG Vetland Hyd Primary Indice Surface V High Wafe Saturatio Water Ma Sediment Drift Depo Surface S Inundatio Water-Sta Vetled Observe urface Water Vater Table F aturation Pre Includes capit	GY Irology Indicators: ators (any one indicators) Auter (A1) ter Table (A2) In (A3) arks (B1) (Nonrivering) It Deposits (B2) (Nonrivering) It Deposits (B3) (Nonrivering) It Cracks (B6) In Visible on Aerial Impained Leaves (B9)	tor is sufficient se) riverine) ne) agery (B7)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Other (Expla	(B12) rtebrates ulfide Odd izosphere Reduced Reduction in in Ren es): es): 7	or (C1) es along Li I Iron (C4) n in Plowe narks)	d Soils (C		Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rrift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) hin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (Cthallow Aquitard (D3) AC-Neutral Test (D5)
YDROLOG Wetland Hyde Primary Indice Surface N High Wafe Saturatio Water Ma Sediment Drift Depo Surface S Inundatio Water-Statield Observator Vater Table F aturation Prencludes capit	GY Irology Indicators: ators (any one indicators) Auter (A1) ter Table (A2) In (A3) Irologists (B1) (Nonrivering to Deposits (B2) (Nonrivering to Deposits (B3) (Nonrivering to Deposits (B6) (Nonrivering to Deposits (B6)) In Visible on Aerial Implained Leaves (B9) In Visible on Aerial Implained Leaves (B9) Ir Present?	tor is sufficient se) riverine) ne) agery (B7)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Other (Expla	(B12) rtebrates ulfide Odd izosphere Reduced Reduction in in Ren es): es): 7	or (C1) es along Li I Iron (C4) n in Plowe narks)	d Soils (C		Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rrift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) hin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (Cthallow Aquitard (D3) AC-Neutral Test (D5)
YDROLOG Wetland Hyde Primary Indice Surface N High Wafe Saturatio Water Ma Sediment Drift Depo Surface S Inundatio Water-Statield Observator Vater Table F aturation Prencludes capit	GY Irology Indicators: ators (any one indicators) Auter (A1) ter Table (A2) In (A3) Irologists (B1) (Nonrivering to Deposits (B2) (Nonrivering to Deposits (B3) (Nonrivering to Deposits (B6) (Nonrivering to Deposits (B6)) In Visible on Aerial Implained Leaves (B9) In Visible on Aerial Implained Leaves (B9) Ir Present?	tor is sufficience) riverine) ne) agery (B7) s No	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Other (Expla	(B12) rtebrates ulfide Odd izosphere Reduced Reduction in in Ren es):	or (C1) es along Li I Iron (C4) n in Plowe narks) 10 " '10 "	Wetlan	S (C3) TO C (S6) S (C3)	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rrift Deposits (B3) (Riverine) rrainage Patterns (B10) rry-Season Water Table (C2) hin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3) AC-Neutral Test (D5)
YDROLOG Vetland Hyd Verland Hyd Verland Hyd Verland Hyd Surface \ Water Ma Sediment Drift Depo Surface \ Inundatio Water-Sta Veld Observation Vater Table Featuration Presidudes capit Secribe Reco	GY Irology Indicators: ators (any one indicators) Auter (A1) ter Table (A2) In (A3) Irologists (B1) (Nonrivering to Deposits (B2) (Nonrivering to Deposits (B3) (Nonrivering to Deposits (B6) (Nonrivering to Deposits (B6)) In Visible on Aerial Implained Leaves (B9) In Visible on Aerial Implained Leaves (B9) Ir Present?	tor is sufficience) riverine) ne) agery (B7) s No	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Other (Expla	(B12) rtebrates ulfide Odd izosphere Reduced Reduction in in Ren es):	or (C1) es along Li I Iron (C4) n in Plowe narks) 10 " '10 "	Wetlan	S (C3) TO C (S6) S (C3)	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rrift Deposits (B3) (Riverine) rrainage Patterns (B10) rry-Season Water Table (C2) hin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3) AC-Neutral Test (D5)
YDROLOG Vetland Hyd Verland Hyd Verland Hyd Verland Hyd Surface \ Water Ma Sediment Drift Depo Surface \ Inundatio Water-Sta Veld Observation Vater Table Featuration Presidudes capit Secribe Reco	GY Irology Indicators: ators (any one indicators) Auter (A1) ter Table (A2) In (A3) Irologists (B1) (Nonrivering to Deposits (B2) (Nonrivering to Deposits (B3) (Nonrivering to Deposits (B6) (Nonrivering to Deposits (B6)) In Visible on Aerial Implained Leaves (B9) In Visible on Aerial Implained Leaves (B9) Ir Present?	tor is sufficience) riverine) ne) agery (B7) s No	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Other (Expla	(B12) rtebrates ulfide Odd izosphere Reduced Reduction in in Ren es):	or (C1) es along Li I Iron (C4) n in Plowe narks) 10 " '10 "	Wetlan	S (C3) TO C (S6) S (C3)	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rrift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) hin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (Cthallow Aquitard (D3) AC-Neutral Test (D5)
YDROLOG Vetland Hyd Primary Indice Surface N High Wate Saturatio Water Ma Sediment Drift Depo Surface S Inundatio Water-Sta Veter-Sta Veter Table Ferencludes capit escribe Reco	GY Irology Indicators: ators (any one indicators) Auter (A1) ter Table (A2) In (A3) Irologists (B1) (Nonrivering to Deposits (B2) (Nonrivering to Deposits (B3) (Nonrivering to Deposits (B6) (Nonrivering to Deposits (B6)) In Visible on Aerial Implained Leaves (B9) In Visible on Aerial Implained Leaves (B9) Ir Present?	tor is sufficience) riverine) ne) agery (B7) s No	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Other (Expla	(B12) rtebrates ulfide Odd izosphere Reduced Reduction in in Ren es):	or (C1) es along Li I Iron (C4) n in Plowe narks) 10 " '10 "	Wetlan	S (C3) TO C (S6) S (C3)	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rrift Deposits (B3) (Riverine) rrinage Patterns (B10) rry-Season Water Table (C2) hin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (Challow Aquitard (D3) AC-Neutral Test (D5)
YDROLOG Vetland Hyd Primary Indice Surface N High Wate Saturatio Water Ma Sediment Drift Depo Surface S Inundatio Water-Sta Veter-Sta Veter Table Ferencludes capit escribe Reco	GY Irology Indicators: ators (any one indicators) Auter (A1) ter Table (A2) In (A3) Irologists (B1) (Nonrivering to Deposits (B2) (Nonrivering to Deposits (B3) (Nonrivering to Deposits (B6) (Nonrivering to Deposits (B6)) In Visible on Aerial Implained Leaves (B9) In Visible on Aerial Implained Leaves (B9) Ir Present?	tor is sufficience) riverine) ne) agery (B7) s No	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Other (Expla	(B12) rtebrates ulfide Odd izosphere Reduced Reduction in in Ren es):	or (C1) es along Li I Iron (C4) n in Plowe narks) 10 " '10 "	Wetlan	S (C3) TO C (S6) S (C3)	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rrift Deposits (B3) (Riverine) rrainage Patterns (B10) rry-Season Water Table (C2) hin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3) AC-Neutral Test (D5)

Project/Site: North County	Caridor	City/County: 5to	anislaus	_ Sampling Date: 3/12
Applicant/Owner: Stanislaus Ca			State: CA	_ Sampling Point: 40
Investigator(s): MIKETruehiood	Daynawinchell	Section, Township, R	Range:	
Landform (hillslope, terrace, etc.):		Local relief (concave	, convex, none):	Slope (%):
Subregion (LRR):				· · · · · · · · · · · · · · · · · · ·
Soil Map Unit Name: Are climatic / hydrologic conditions on the s	ite typical for this time of ve	ear? Yes No	(If no, explain in	Remarks.)
Are Vegetation, Soil, or Hyd				present? Yes No
Are Vegetation, Soil, or Hyd			needed, explain any answ	
SUMMARY OF FINDINGS - Atta				
	YesX No	n & leffic		, <u> </u>
	Yes No	is the Sample within a Wetla		No
Wetland Hydrology Present?	Yes No	within a wetta	ind/ Yes	NO
Remarks:				F a suff
/EGETATION	_ 10	121		E =
	Absolute	Dominant Indicator	Dominance Test work	sheet:
<u>Tree Stratum</u> (Use scientific names.)		Species? Status	Number of Dominant S	
1			That Are OBL, FACW,	or FAC: (A)
2			Total Number of Domir	
4.			Species Across All Stra	ata: (B)
	Total Cover:		Percent of Dominant S That Are OBL, FACW,	
Sapling/Shrub Stratum			Mat Are OBL, PACVV,	OF FAC (A/B)
1.			Prevalence Index wor	
2				Multiply by:
3.				x1 =
4				x 2 =
5.	Total Cover			x 3 = x 4 =
Herb Stratum	Total Cover:			x =
1. rumex sp	30	Tes FAX		(A) (B)
2. Juncus effusus	500	yes Obl		(5)
3. Ynknown grass	40	yes	Prevalence Index	
1. Doluphum sp	5	no FACO	Hydrophytic Vegetation	
5. Trisolium hirtum		NO UPL	X Dominance Test is	
Bromus hurdeageus	5	NO FACU	Prevalence Index i	
7		151	Morphological Ada	ptations ¹ (Provide supporting sor on a separate sheet)
3				phytic Vegetation ¹ (Explain)
Woody Vine Stratum	Total Cover:		- 51121	, (anplum)
1.			¹ Indicators of hydric soi	I and wetland hydrology must
2 7 124	- 4000	- H.A.E	be present.	
	Total Cover:	12	Hydrophytic	790.19
% Bare Ground in Herb Stratum		uet I	Vegetation	s No
		uət	Present? Yes	NO
Remarks:				
			1	
		100		

Depth Matrix	•	Red	ox Feature:	s			
(inches) Color (moist)		Color (moist)	_ %	Type ¹	Loc ²	Texture	Remarks
0-8" 754R 3/3	93 5	YR4/6	7	6	M		Sanduloam
	10-11-11 62-				Telephone Control		
	-11						
			- —				
							
			- ——				
v.				80			
Type: C=Concentration, D=Depl	etion, RM=Re	duced Matrix.	² Location:	PL=Pore	Lining. R	C=Root Chan	nel, M=Matrix.
lydric Soil Indicators: (Applica			rwise note	ed.)	- Lg, 1	Indicators	for Problematic Hydric Soils ³ :
Histosol (A1)		Sandy Red					Muck (A9) (LRR C)
Histic Epipedon (A2)		Stripped Ma					Muck (A10) (LRR B)
Black Histic (A3)		Loamy Muc		(F1)			ed Vertic (F18)
Hydrogen Sulfide (A4)		Loamy Gley					arent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted M		. , ,			(Explain in Remarks)
1 cm Muck (A9) (LRR D)		X Redox Dark		F6)			
Depleted Below Dark Surface	(A11)	_ Depleted Da	ark Surface	∍ (F7)			
Thick Dark Surface (A12)	58	🧾 Redox Dep	ressions (F	8)			
Sandy Mucky Mineral (S1)		Vernal Pool	s (F9)			3Indicators	of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)						wetland	hydrology must be present.
Restrictive Layer (if present):							
Type:							
. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						1	
Depth (inches):		<i>y</i>				Hydric Soil	Present? Yes X No No
Depth (inches): Remarks: Naud paur at						Hydric Soil	Present? Yes X No
Depth (inches): Remarks: Mard Pour at OROLOGY							
Depth (inches): Remarks: Mard park at YDROLOGY Vetland Hydrology Indicators:	8 inch					Secon	dary Indicators (2 or more required)
Depth (inches): Remarks: Naud paus at /DROLOGY /etland Hydrology Indicators: rimary Indicators (any one indicators)	8 inch)				Secon	dary Indicators (2 or more required) ater Marks (B1) (Riverine)
Depth (inches): Remarks: Mand Park At PDROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicat _ Surface Water (A1)	8 inch) Salt Crust				<u>Secon</u> W So	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine)
Depth (inches):	8 inch) Salt Crust (Biotic Crus	t (B12)			Secon W So	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine)
Depth (inches): Remarks: Mand Park At PDROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicat _ Surface Water (A1)	8 inch) Salt Crust	t (B12)	(B13)		Secon W So	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine)
Depth (inches): Remarks: CDROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicat Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverin	8 INC Notes to ris sufficient) Salt Crust (Biotic Crust Aquatic Inv	t (B12) rertebrates Sulfide Odd	or (C1)		Secon W Se De De	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2)
Depth (inches): Remarks: Mard Pour at VDROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicat Surface Water (A1) High Water Table (A2) Saturation (A3)	8 INC Notes to ris sufficient) Salt Crust (Biotic Crus Aquatic Inv	t (B12) rertebrates Sulfide Odd	or (C1)	iving Roots	Secon W Se De De	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicat Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverin Sediment Deposits (B2) (Nonriverir Drift Deposits (B3) (Nonriverir	S INC Landstor is sufficient) Salt Crust (Biotic Crust Aquatic Inv	t (B12) rertebrates Sulfide Odo hizosphere	or (C1) es along Li		Secon W Secon W Secon W Decon M Deco	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicat Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverin Sediment Deposits (B2) (Nonr	S INC Landstor is sufficient	Salt Crust of Sa	t (B12) rertebrates Sulfide Odd hizosphere of Reduced	or (C1) es along Li Iron (C4)		Secon W Secon W Secon W Decon M Deco	dary Indicators (2 or more required) later Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) nin Muck Surface (C7)
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Project/Site: North County Carido	×	City/Count	y: Sta	anislaus	_ Sampling Date: 3/12
Applicant/Owner: Stanislaus County					
				Range:	
Landform (hillslope, terrace, etc.):				341-14	1 1) =
Subregion (LRR):					
Soil Map Unit Name:					
Are climatic / hydrologic conditions on the site typical for					
Are Vegetation, Soil, or Hydrology					present? Yes No
Are Vegetation, Soil, or Hydrology				needed, explain any answ	·
SUMMARY OF FINDINGS – Attach site ma			•		
Hydrophytic Vegetation Present? Yes	No V	1-4	a Camala		
Hydric Soil Present? Yes			e Sample in a Wetla		No/
Wetland Hydrology Present? Yes	No	With	ill a vvetie	165	
VEGETATION		- 101			
Tree Stratum (Use scientific names.) 1	Absolute % Cover	Dominant Species?	Status	Dominance Test work Number of Dominant S That Are OBL, FACW,	Species
2				Total Number of Domin	nant
4.				Species Across All Stra	· · · · · · · · · · · · · · · · · · ·
Total Cove	er:			Percent of Dominant S That Are OBL, FACW,	
Sapling/Shrub Stratum				Prevalence Index wor	
1				Total % Cover of:	
2					x 1 =
4.					x 2 =
5.	H 118		- 1		x 3 =
Total Cove	er:				x 4 =
Herb Stratum				11 14	x 5 =
1. Unknown gress	90	4	UPL	Column Totals:	(A)(B)
2. Holocapha vivgata	15	<u>~</u>	WC_		
3. Endim Sp.		$\frac{n}{2}$	UL		= B/A =
4. Bromvs hordeaceis	20		FACU	Hydrophytic Vegetation Dominance Test is	
5. Amsinkia menziezia	15_	<u>n</u>	UPL	Prevalence Index i	
6				Morphological Ada	ptations ¹ (Provide supporting s or on a separate sheet)
8	122				phytic Vegetation ¹ (Explain)
Total Cove Woody Vine Stratum	r: 197				
1.				¹ Indicators of hydric soi	I and wetland hydrology must
TL g	Pt.		. ==. =	be present.	
	r:			Hydrophytic	
% Bare Ground in Herb Stratum % Cove	r of Biotic Cn	ıst		Vegetation Present? Yes	s No 🗸
Remarks:					
					E 4111
					1 3 3 1

High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Drift Deposits (D2) (Drift Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix. 1 Location: PL=Pore Lining, RC=Root Channel, M=Matrix 1 Histosol (A1)	Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix. Applicable to all LRRs, unless otherwise noted.	loan
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	
Indicators (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	
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Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	
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Type:	
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Depth (inches):	220
Internation	V X
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High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soll Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Water-Stained Leaves (B9) Biotic Crust (B12) Drift Deposits Dry-Season W Dry-Season W Drift Deposits (B13) Dry-Season W Dry-Season W Dry-Season W Crayfish Burro Crayfish Burro Crayfish Burro Deput (Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (B7) Shallow Aquita FAC-Neutral T Deput (Inches): Dep	
Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Water-Stained Leaves (B9) Beld Observations: Inface Water Present? Inface Water Present? Yes No Depth (inches): Depth (inches)	osits (B2) (Riverine)
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) Peld Observations: Inface Water Present? Inface Water Pres	
Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Saturation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Other (Explain in Remarks) Shallow Aquita FAC-Neutral Teld Observations: Inface Water Present? Inface Water Presen	/ater Table (C2)
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Industrial Teld Observations: Inface Water Present? Inface Water	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquita	face (C7)
Water-Stained Leaves (B9) FAC-Neutral T eld Observations: urface Water Present? Yes No Depth (inches): ater Table Present? Yes No Depth (inches): uturation Present? Yes No Depth (inches): cludes capillary fringe) secribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
eld Observations: urface Water Present? Yes No Depth (inches): ater Table Present? Yes No Depth (inches): uturation Present? Yes No uturation Present? Yes No uturation Present? Yes No	
arface Water Present? Yes No Depth (inches): ater Table Present? Yes No Depth (inches): Wetland Hydrology Present? Inturation Present? Yes No Depth (inches): Wetland Hydrology Present? Includes capillary fringe) Inscribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	ws (C8) ible on Aerial Imagery (C
ater Table Present? Yes No Depth (inches): Wetland Hydrology Present? cludes capillary fringe) secribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	ws (C8) ible on Aerial Imagery (Card (D3)
ater Table Present? Yes No Depth (inches): No Depth (inches): Wetland Hydrology Present? cludes capillary fringe) secribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	ws (C8) ible on Aerial Imagery (Card (D3)
aturation Present? Yes No Depth (inches): Wetland Hydrology Present? cludes capillary fringe) sscribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	ws (C8) ible on Aerial Imagery (Card (D3)
cludes capillary fringe) escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	ws (C8) ible on Aerial Imagery (Card (D3)
escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	ows (C8) ible on Aerial Imagery (Card (D3) est (D5)
marks:	ows (C8) ible on Aerial Imagery (Card (D3) est (D5)
marks:	ows (C8) ible on Aerial Imagery (Card (D3) est (D5)
	ows (C8) ible on Aerial Imagery (Card (D3) est (D5)
	ows (C8) ible on Aerial Imagery (Card (D3) est (D5)
	ows (C8) ible on Aerial Imagery (Card (D3) est (D5)

Project/Site: North County Cornel	W	City/County:	Stanislaus	_ Sampling Date: 3/12/14
Applicant/Owner: Stanislaus County				
Investigator(s): MIKETruzhI OD al Daynak	Drichell	Section, Towns	hip, Range:	
Landform (hillslope, terrace, etc.):				
Subregion (LRR):				
Soil Map Unit Name:				ication:
Are climatic / hydrologic conditions on the site typical for				
Are Vegetation, Soil, or Hydrology	•			present? Yes No
Are Vegetation, Soil, or Hydrology	111		(If needed, explain any answ	
SUMMARY OF FINDINGS - Attach site ma				
Hydrophytic Vegetation Present? Yes X	No			
Hydric Soil Present? Yes			mpled Area Wetland? Yes	No
Wetland Hydrology Present? YesX	No	within a	wetiand? Tes	NO
Remarks:				
11 -111				
The state of the s				
VEGETATION		-		
VEGETATION	Abaaluta	Danis at Indi	-t- Di	1-1
Tree Stratum (Use scientific names.)	Absolute <u>% Cover</u>	Dominant Indic Species? Sta		
1			That Are OBL, FACW,	
2		. 	Total Number of Domi	nant 👩
3.		- 	Species Across All Str	
4			Percent of Dominant S	inecies /
Total Co Sapling/Shrub Stratum	ver:	-	That Are OBL, FACW,	
1			Prevalence Index wo	rksheet:
2			Total % Cover of:	
3.				x 1 =
4. The second se			FACW species	x 2 =
5			FAC species	x 3 =
	ver:		1	x 4 =
1. Unknown arass	40	y Fai		x 5 =
2. Pasparum dilatatum	45	FAK		(A) (B)
3. Trifolium hurtim	30	7 10		c = B/A =
4. Juneus Tenuis	15	n FA		
5.		The state of the s	X Dominance Test is	i >50%
6			Prevalence Index	s ≤3.0¹
7			Morphological Ada	ptations ¹ (Provide supporting
8	<u> </u>			s or on a separate sheet)
	/er: <u>/30</u>		Problematic Hydro	phytic Vegetation ¹ (Explain)
Woody Vine Stratum			1 Indicators of hydric so	il and wetland hydrology must
1	2.0		be present.	rand wedand nydrology must
Total Co.	rer:		Hydrophytic	
			Vegetation	
% Bare Ground in Herb Stratum % Cov	er of Biotic C	rust	_ Present? Ye	s No
Remarks: Unknown annual grass Present in The smale depre	heavily c	inzed. Ass	iumed Socultative	since it is only
11 210 T 11 220 T	п	1	<u> </u>	

Depth (inches)	Color (moist)	%	Color (moist)	x Features %	Type ¹	Loc ²	Texture	Domesta
)-q"	1041 212		5 YR 314	5	TYDE	LOC	1 exture	Remarks
	10115-12	43	9 14 314			/VI		Siltyloam
	·							
					21			
		. .						
				. ——-				
					(147)			
V					100			
	ncentration, D=Dep			² Location:	PL=Pore	Lining, Ro		nel, M=Matrix.
	ndicators: (Applic	able to all L			1.)		Indicators	for Problematic Hydric Soils ³ :
_ Histosol	• •		Sandy Redo	` '				fluck (A9) (LRR C)
Histic Ep Black His	ipedon (A2)		Stripped Ma					fuck (A10) (LRR B)
	n Sulfide (A4)		Loamy Muci					ed Vertic (F18)
	Layers (A5) (LRR (2)	Loamy Gley Depleted Ma		-2)			arent Material (TF2) (Explain in Remarks)
	ck (A9) (LRR D)	• •	Redox Dark		6)		Outer (Explain in Remarks)
	Below Dark Surface	(A11)	Depleted Da					
	rk Surface (A12)		Redox Depr					
	ucky Mineral (S1)		Vernal Pools	s (F9)			3Indicators	of hydrophytic vegetation and
	eyed Matrix (S4)						wetland	hydrology must be present.
estrictive L	ayer (if present):							
Туре:								\ .
	nes):						Hydric Soil	Present? Yes No _
	nes):						Hydric Soil	Present? Yes No No
emarks:							Hydric Soil	Present? Yes No _
emarks:								
emarks: DROLOG etland Hydi	SY		ent)				Second	dary Indicators (2 or more required)
emarks: DROLOG etland Hydi	SY rology Indicators: tors (any one indica			B11)			Second	dary Indicators (2 or more required) ater Marks (B1) (Riverine)
DROLOG etland Hydi imary Indica	ology Indicators: tors (any one indica /ater (A1)		Salt Crust (•			<u>Seconi</u> W: Se	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine)
DROLOG etland Hydi imary Indica	ology Indicators: tors (any one indica /ater (A1) Fr Table (A2)		Salt Crust ((B12)	B13)		<u>Second</u> Wo Se Dri	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine)
EMARKS: DROLOG etland Hydi imary Indica Surface W High Wate Saturation	rology Indicators: tors (any one indica /ater (A1) er Table (A2)	tor is sufficie	Salt Crust (i Biotic Crust Aquatic Inve	(B12) ertebrates (l			Second Was Second Drivers	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10)
DROLOG etland Hydrimary Indica Surface W High Wate Saturation Water Ma	rology Indicators: tors (any one indica /ater (A1) er Table (A2) i (A3) rks (B1) (Nonriverir	tor is sufficie	Salt Crust (I Biotic Crust Aquatic Inve	(B12) ertebrates (l sulfide Odor	(C1)	ving Roots	Second Wa Se Dra Dra Dra	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2)
PROLOG etland Hydrimary Indica Surface W High Water Saturation Water Mar Sediment	rology Indicators: tors (any one indical /ater (A1) er Table (A2) i (A3) rks (B1) (Nonriverir Deposits (B2) (Non	tor is sufficie ne) riverine)	Salt Crust (I Biotic Crust Aquatic Inve	(B12) ertebrates (l sulfide Odor nizospheres	(C1) along Li	ving Roots	Second	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7)
PROLOG etland Hydromary Indica Surface W High Water Saturation Water Mar Sediment Drift Depo	rology Indicators: tors (any one indica /ater (A1) er Table (A2) i (A3) rks (B1) (Nonriverir	tor is sufficie ne) riverine)	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Ri Presence of	(B12) ertebrates (l dulfide Odor nizospheres f Reduced I	(C1) along Livron (C4)		Second 	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) iff Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8)
Properties of the control of the con	rology Indicators: tors (any one indicators) tater (A1) or Table (A2) (A3) rks (B1) (Nonrivering Deposits (B2) (Nonrivering toil Cracks (B6)	tor is sufficience) riverine)	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Ri Presence of Recent Iron	(B12) ertebrates (li sulfide Odor nizospheres f Reduced II Reduction	(C1) along Liv ron (C4) in Plowed		Second — Ware — Se — Dri — Dri — Dri — C(C3) — Th — Cri — X, Sa	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C8)
PROLOG etland Hydrimary Indica Surface W High Water Saturation Water Man Sediment Drift Depo Surface So	rology Indicators: tors (any one indicators) /ater (A1) or Table (A2) (A3) rks (B1) (Nonrivering Deposits (B2) (Nonrivering)	tor is sufficience) riverine)	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Ri Presence of	(B12) ertebrates (li sulfide Odor nizospheres f Reduced II Reduction	(C1) along Liv ron (C4) in Plowed		Second — Wo — Se — Dri — Dri — Dri — Cri — Cri — Sh	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) aturation Visible on Aerial Imagery (CS) allow Aquitard (D3)
PROLOGICATION OF THE PROPERTY	rology Indicators: tors (any one indicators: tater (A1) or Table (A2) or (A3) orks (B1) (Nonrivering Deposits (B2) (Nonrivering sits (B3) (Nonrivering oil Cracks (B6) or Visible on Aerial Intined Leaves (B9)	tor is sufficience) riverine)	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Ri Presence of Recent Iron	(B12) ertebrates (li sulfide Odor nizospheres f Reduced II Reduction	(C1) along Liv ron (C4) in Plowed		Second — Wo — Se — Dri — Dri — Dri — Cri — Cri — Sh	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C8)
Petland Hydromary Indica Surface W High Water Saturation Water Man Sediment Drift Depo Surface So Inundation Water-Stated Observa	rology Indicators: tors (any one indicators: tare (A1) or Table (A2) or (A3) rks (B1) (Nonrivering Deposits (B2) (Nonrivering oil Cracks (B6) of Visible on Aerial Intined Leaves (B9) tions:	tor is sufficience) riverlne) ne) nagery (B7)	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Ri Presence of Recent Iron Other (Expla	(B12) ertebrates (I dulfide Odor nizospheres f Reduced II Reduction ain in Rema	(C1) along Liv ron (C4) in Plowed		Second — Wo — Se — Dri — Dri — Dri — Cri — Cri — Sh	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) aturation Visible on Aerial Imagery (CS) allow Aquitard (D3)
/DROLOG /etland Hydromary Indica Surface Water Man Sediment Drift Depo Surface So Inundation Water-Sta eld Observa	rology Indicators: tors (any one indicators (A1) or Table (A2) (A3) rks (B1) (Nonrivering (B2) (Nonrivering (B3) (Nonriv	tor is sufficience) riverine) ne) nagery (B7)	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Ri Presence of Recent Iron Other (Expla	(B12) ertebrates (I sulfide Odor nizospheres f Reduced II Reduction ain in Rema	(C1) along Liv ron (C4) in Plowed		Second — Wo — Se — Dri — Dri — Dri — Cri — Cri — Sh	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) aturation Visible on Aerial Imagery (CS) allow Aquitard (D3)
Property of the property of th	rology Indicators: tors (any one indicators: /ater (A1) er Table (A2) (A3) rks (B1) (Nonrivering Deposits (B2) (Nonrivering Sits (B3) (Nonrivering Cracks (B6) It Visible on Aerial Intitional Leaves (B9) tions: Present? Yes	tor is sufficience) riverine) ne) sagery (B7)	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Other (Expla	(B12) ertebrates (I sulfide Odor nizospheres f Reduced II Reduction ain in Rema	(C1) along Liv ron (C4) in Plowed	d Soils (C6	Second — Wa — Se — Dri — Dri — Cri — Cri — Sh — FA	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) aturation Visible on Aerial Imagery (C8 allow Aquitard (D3) C-Neutral Test (D5)
Property of the property of th	rology Indicators: tors (any one indicators) tater (A1) or Table (A2) (A3) rks (B1) (Nonrivering Deposits (B2) (Nonrivering oil Cracks (B6) of Visible on Aerial Intitional Leaves (B9) tions: Present? Yes sent? Yes	tor is sufficience) riverine) ne) sagery (B7)	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Ri Presence of Recent Iron Other (Expla	(B12) ertebrates (I sulfide Odor nizospheres f Reduced II Reduction ain in Rema	(C1) along Liv ron (C4) in Plowed	d Soils (C6	Second — Wa — Se — Dri — Dri — Cri — Cri — Sh — FA	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) aturation Visible on Aerial Imagery (CS) allow Aquitard (D3)
Properties of the properties o	rology Indicators: tors (any one indicators) tater (A1) or Table (A2) (A3) rks (B1) (Nonrivering Deposits (B2) (Nonrivering oil Cracks (B6) of Visible on Aerial Intitional Leaves (B9) tions: Present? Yes sent? Yes	tor is sufficiently ine) ne) nagery (B7) s No s No	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Ri Presence of Recent Iron Other (Expla	(B12) ertebrates (I sulfide Odor nizospheres f Reduced II Reduction ain in Rema	(C1) salong Livron (C4) in Plowedurks)	d Soils (C6	Second Wi Se Dri X Dri Dri (C3)	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) aturation Visible on Aerial Imagery (C8 allow Aquitard (D3) C-Neutral Test (D5)
PROLOGIVE TENT OF THE PROCESS CONTROL OF THE	rology Indicators: tors (any one indical /ater (A1) or Table (A2) (A3) rks (B1) (Nonrivering Deposits (B2) (Nonrivering oil Cracks (B6) of Visible on Aerial Information ined Leaves (B9) tions: Present? Present? Yes eary fringe) rded Data (stream g	tor is sufficience) riverine) ne) sagery (B7) s No s No s No auge, monit	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Ri Presence of Recent Iron Other (Expla	(B12) ertebrates (I sulfide Odor nizospheres f Reduced II Reduction ain in Rema	(C1) s along Liv ron (C4) in Plowed arks)	Wetlan	Second With Second Seco	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) aturation Visible on Aerial Imagery (CS) allow Aquitard (D3) C-Neutral Test (D5)
PROLOGIEM AND THE PROCESS AND	rology Indicators: tors (any one indical /ater (A1) or Table (A2) (A3) rks (B1) (Nonrivering Deposits (B2) (Nonrivering oil Cracks (B6) of Visible on Aerial Information ined Leaves (B9) tions: Present? Present? Yes eary fringe) rded Data (stream g	tor is sufficience) riverine) ne) sagery (B7) s No s No s No auge, monit	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Ri Presence of Recent Iron Other (Expla	(B12) ertebrates (I sulfide Odor nizospheres f Reduced II Reduction ain in Rema	(C1) s along Liv ron (C4) in Plowed arks)	Wetlan	Second With Second Seco	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) aturation Visible on Aerial Imagery (CS) allow Aquitard (D3) C-Neutral Test (D5)
PROLOGIVE Indicated by the second of the sec	rology Indicators: tors (any one indical /ater (A1) or Table (A2) (A3) rks (B1) (Nonrivering Deposits (B2) (Nonrivering oil Cracks (B6) of Visible on Aerial Information ined Leaves (B9) tions: Present? Present? Yes eary fringe) rded Data (stream g	tor is sufficience) riverine) ne) sagery (B7) s No s No s No auge, monit	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Ri Presence of Recent Iron Other (Expla	(B12) ertebrates (I sulfide Odor nizospheres f Reduced II Reduction ain in Rema	(C1) s along Liv ron (C4) in Plowed arks)	Wetlan	Second With Second Seco	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) aturation Visible on Aerial Imagery (CS) allow Aquitard (D3) C-Neutral Test (D5)

Project/Site: North County Carida		City/Coun	ty: <u>5</u> to	anislaus Sampling Date: 3/12/14
Applicant/Owner: Stanislaus County				
Investigator(s): MIKETYUZHOOd/Danawn	dell	Section, 1	ownship, R	lange:
Landform (hillslope, terrace, etc.):		Local reli	ef (concave	o, convex, none): Slope (%):
Subregion (LRR):				
Soil Map Unit Name:			/	NWI classification:
Are climatic / hydrologic conditions on the site typical for th				(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	-			"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology				needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map	1 100			
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes X N	lo _		he Sample hin a Wetla	
Remarks:				
				TOTAL SELECTION OF THE
VECETATION				
VEGETATION	Abaatuta	D	A 1- 41-41-	I Daniel Tradicional Control
Tree Stratum (Use scientific names.) 1		Species?		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3.				Species Across All Strata: (B)
4	. ——		-	Percent of Dominant Species
Total Cover Sapling/Shrub Stratum	;	-		That Are OBL, FACW, or FAC:(A/B)
1				Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3.				OBL species x 1 =
4.				FACW species x 2 =
5.				FAC species x 3 =
Total Cover Herb Stratum	·			FACU species x 4 =
	30_	Wes	Fac	UPL species x 5 =
2. tribolium hustin	30	405	UPL	Column Totals: (A) (B)
3. Juneus tenuis		rer	FACY	Prevalence Index = B/A =
4. Ranunculus so.			Fach	Hydrophytic Vegetation Indicators:
5				→ Dominance Test is >50%
6				Prevalence Index is ≤3.0¹
7		1.5		Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
8.				Problematic Hydrophytic Vegetation ¹ (Explain)
Total Cover: Woody Vine Stratum	100_			Tobisinato i i di opri y to vogotationi (Expiaini)
1.				¹ Indicators of hydric soil and wetland hydrology must
2.	팅네		THE	be present.
Total Cover:				Hydrophytic
	of Biotic Cr	uet		Vegetation
	UI DIOUC CI	ust		Present? Yes X No
Remarks:				

							1. 1
OIL							Sampling Point:
	escription: (Describe t	o the depth			ator or conf	irm the absence	of indicators.)
Depth (inches)	Color (moist)			x Features	1 . 2		
(IIICHes)	10 V 2 Z L		Color (moist)	12-1	/pe ¹ Loc ²	Texture	Remarks
0_12_		<u> </u>	54R 314	3	<u> </u>		Joan
Hydric So	Concentration, D=Deple il Indicators: (Applicat			wise noted.)	=Pore Lining		for Problematic Hydric Soils ³ :
	Epipedon (A2)		Stripped Ma				Muck (A9) (LRR C) Muck (A10) (LRR B)
	Histic (A3)			ky Mineral (F1)			ed Vertic (F18)
	gen Sulfide (A4)			ed Matrix (F2)			arent Material (TF2)
Stratifi	ed Layers (A5) (LRR C)		Depleted Ma				(Explain in Remarks)
1 cm N	fluck (A9) (LRR D)		X Redox Dark	Surface (F6)			
-	ed Below Dark Surface (A11)	Depleted Da	rk Surface (F7	')		
_	Dark Surface (A12)		Redox Depre	٠,,			
	Mucky Mineral (S1)		Vernal Pools	s (F9)		3Indicators	of hydrophytic vegetation and
	Gleyed Matrix (S4)					wetland	hydrology must be present.
	Layer (if present):						
Type:			-				- 12
	nches):					Hydric Soil	Present? Yes X No
emarks:							
DROLO	OGY						
etland Hy	/drology Indicators:					Secon	dary Indicators (2 or more required)
	icators (any one indicato	r is sufficien	t)		97		ater Marks (B1) (Riverine)
Surface	Water (A1)		Salt Crust (I	B11)			ediment Deposits (B2) (Riverine)
_	ater Table (A2)		Biotic Crust	•			rift Deposits (B3) (Riverine)
	ion (A3)			ertebrates (B1	3)		rainage Patterns (B10)
	Marks (B1) (Nonriverine)		ulfide Odor (C	•		y-Season Water Table (C2)
	nt Deposits (B2) (Nonri			nizospheres al			nin Muck Surface (C7)
	posits (B3) (Nonriverine			Reduced Iron		· · · · · · · · · · · · · · · · · · ·	ayfish Burrows (C8)
	Soil Cracks (B6)			Reduction in I	` '		sturation Visible on Aerial Imageny (C

Primary Indicators (any one indicator is sufficient)

Surface Water (A1)

High Water Table (A2)

Saturation (A3)

Water Marks (B1) (Nonriverine)

Sediment Deposits (B2) (Riverine)

Drift Deposits (B3) (Riverine)

Sediment Deposits (B3) (Riverine)

Sediment Deposits (B3) (Riverine)

Drainage Patterns (B10)

Water Marks (B1) (Nonriverine)

Sediment Deposits (B3) (Nonriverine)

Sediment Deposits (B3) (Nonriverine)

Sediment Deposits (B3) (Nonriverine)

Sediment Deposits (B3) (Nonriverine)

Drift Deposits (B3) (Nonriverine)

Sediment Deposits (B3) (Riverine)

Drainage Patterns (B10)

Dry-Season Water Table (C2)

Thin Muck Surface (C7)

Dry-Season Water Table (C2)

Thin Muck Surface (C7)

Thin Muck Surface (C7)

Thin Deposits (B3) (Nonriverine)

Presence of Reduced Iron (C4)

Surface Soil Cracks (B6)

Recent Iron Reduction in Plowed Soils (C6)

Saturation Visible on Aerial Imagery (C9)

Shallow Aquitard (D3)

FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?

Yes No Depth (inches):

Water Table Present?

Yes No Depth (inches):

Juli

Wetland Hydrology Present? Yes No Saturation Present?

(includes capillary fringe)

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

Remarks:

Remarks:

Charace of mater. Abrupt Vestitation Type Edge and matted Vegetation

Obvices Smalle Seature.

Applicant/Owner: Stratum (Use scientific names) Total Cover: Total Cover: Total Cover: Stratum Total Cover: Total Cover: Total Cover: Stratum Total Cover: Tot	Project/Site: North County Co	ridor	City/County: 5tz	anislaus	Sampling Date: 3(13/14
Investigator(s): M LETVLE DI COLON DRUMA WAY LO II Section, Township, Range: Landform (fillalope, ferrace, etc.): Local relief (concave, convex, none): Slope (%): Slope (%): Slope (%): Slope (%): Slope (%): Subtragion (LRR): No Lorg: No (If no, explain in Remarks.) No (If no, explain i					
Landform (hillelope, terrace, etc.): Local reliaf (concave, convex, none): Subregion (LRR): Datum: Subregion (LRR): Long: NWI classification: Nwi	Investigator(s): MIKE True HOO at DO	runa Winches	Section, Township, F	Range:	A Part Trains
Subregion (LRR): Lat: Long: Detum: Detum: Solf Mep Unit Name: NWI classification: NWI		•			111 (#1.15) 5
Soll Map Unit Name: NWI classification: NWI classification: NWI classification: Nwar					
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Nogelatation Soil or hydrology significantly disturbed? (If needed, explain any answers in Remarks.) Are Normal Circumstances' present? Yes No No Normal Circumstances' present? Yes Normal Circ					
Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Not Vegetation Soil or Hydrology naturally problemate? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No Ite the Sampled Area within a Wedland? Yes No Wetland Hydrology Present? Yes No No No Ite the Sampled Area within a Wedland? Yes No					
Absolute Stratum (Use scientific names.) Absolute Singular (Use scientific names.) Absolute Singular (Use scientific names.) Total Cover: Total Cover: I a the Sampled Area within a Westland typic Persents (AB) Prevalence Index worksheet: Total Cover: Total Cov				- · · - · ·	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes X No Wetland Hydrology Present? Yes X No Wetland? No Wetland? Yes X No Wetland? No Wetland? No Wetland? No Wetland? No Wetland? Yes X No Wetland? No Wet					
Hydric Soil Present? Wetland Hydrology Present? Wetland Hydrology Present? Wetland Hydrology Present? Yes No within a Wetland? Yes No No No within a Wetland? Yes No					
Wetland Hydrology Present? Yes No Within a Wetland? Yes No	Hydrophytic Vegetation Present? Yes	X No		mar i i zacim m	
Absolute Dominant Indicator Number of Dominant Species Dominan		¥ No		and?	No
Absolute Dominant Indicator Species? Status Status Status Species Status Status Species Status Species Status Status Status Species Status Status Status Status Species Status	Wetland Hydrology Present? Yes	No	Within a vieta	103	
Absolute Scriptum (Use scientific names.) Absolute Species? Status Dominant Indicator Species? Status Total Report of Dominant Species That Are OBL, FACW, or FAC: And Are OBL, FACW, or FAC: Interport of Dominant Species That Are OBL, FACW, or FAC: Interport of Dominant	Remarks:				
Absolute Scriptum (Use scientific names.) Absolute Species? Status Dominant Indicator Species? Status Total Report of Dominant Species That Are OBL, FACW, or FAC: And Are OBL, FACW, or FAC: Interport of Dominant Species That Are OBL, FACW, or FAC: Interport of Dominant					
Absolute Scriptum (Use scientific names.) Absolute Species? Status Dominant Indicator Species? Status Total Report of Dominant Species That Are OBL, FACW, or FAC: And Are OBL, FACW, or FAC: Interport of Dominant Species That Are OBL, FACW, or FAC: Interport of Dominant	1 1 1 1 1 1 1 1	li .	ii x x	- n to see it	2 7 8 8
Tree Stratum (Use scientific names.) % Cover Species? Status	VEGETATION		il.		
Total Cover: Total Cover: Total				Dominance Test worksh	neet:
Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: CON (A/B)	i i		Species? Status		
Species Across All Strata: (B) Species Across All Strata: (C) Sapling/Shrub Stratum 1. Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x1 = FACW species x2 = FAC species x3 = FACP species x4 = UPL species x5 = Column Totals: (A) (B) Prevalence Index species index species in the species of hydrocolumn to the species in the spec				That Are OBL, FACW, or	FAC: (A)
Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)					21
Total Cover. Total Cover. Prevalence Index worksheet: Total % Cover of: Multiply by:					
Prevalence Index worksheet: Total % Cover of: Multiply by:	То				
Total % Cover of: Multiply by:	Sapling/Shrub Stratum			1 11111111	(48)
OBL species					
FACW species					
FAC species					
Total Cover: FACU species x 4 = Mostvrhum obsicinate					
Column Totals: (A) (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is <3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Total Cover: 10 Total Cover: Hydrophytic vegetation fluctors: Total Cover: Hydrophytic Vegetation fluctors Problematic Hydrophytic vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology must be present. Hydrophytic Vegetation fluctors fluctors Total Cover: Hydrophytic Vegetation fluctors flu					
Prevalence Index = B/A =	Herb Stratum	115	W av	UPL species	x 5 =
Prevalence Index = B/A =			The second secon	Column Totals:	(A) (B)
Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Voody Vine Stratum Total Cover: Total Cover: Total Cover: Hydrophytic Vegetation Total Cover: Hydrophytic Vegetation Present? Yes			-	Prevalence Index =	R/A =
Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Voody Vine Stratum ¹Indicators of hydric soil and wetland hydrology must be present. Total Cover: Hydrophytic Vegetation Hydrophytic Vegetation Hydrophytic Vegetation Yes					
Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Voody Vine Stratum ¹Indicators of hydric soil and wetland hydrology must be present. Total Cover: Hydrophytic Vegetation Sare Ground in Herb Stratum % Cover of Biotic Crust Present? Yes No					
Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) — Problematic Hydrophytic Vegetation¹ (Explain) Voody Vine Stratum ¹Indicators of hydric soil and wetland hydrology must be present. — Hydrophytic Vegetation **Total Cover: **Description: **Total Cover: **Description: **Total Cover: **Description: **Total Cover: **Description: **Problematic Hydrophytic vegetation **Present: **Description: **Problematic Hydrophytic vegetation **Present: **Description: **Problematic Hydrophytic vegetation **Present: **Problematic Hydrophytic vegetation **Present: **Problematic Hydrophytic vegetation **Present: **Problematic Hydrophytic vegetation **Present: **Problematic Hydrophytic vegetation **Prob				Prevalence Index is ≤	3.0 ¹
Total Cover:				Morphological Adapta	tions ¹ (Provide supporting
Voody Vine Stratum Indicators of hydric soil and wetland hydrology must be present.	3				
Total Cover: Hydrophytic Bare Ground in Herb Stratum		al Cover: 110		Problematic Hydrophy	fic Vegetation (Explain)
Total Cover:				1 Indicators of bydric soil ar	ed wetland hydrology must
Total Cover: Hydrophytic Vegetation Present? Yes No		si Silbir se			id welland hydrology must
Bare Ground in Herb Stratum % Cover of Biotic Crust Present? Yes No		al Cover		Hydrophytic	
				Vegetation	X
		% Cover of Biotic Cri	ust	Present? Yes _	No
	Remarks:				
ngarifas ay ga ay katara ay katara ay katara ay katara ay katara ay katara ay					
marifesta y colores a formation of formation of formation of the formation					
	matter a grant of the				· ii (tinii i

Depth Matrix (inches) Color (moist) %	Redox Fea Color (moist) %		Loc ²	Texture	Remarks
75 YR 25 1 90	2.5 TR 2.5/4 10		M	Textuje	Clayloam
					Collection
Type: C=Concentration, D=Depletion, R lydric Soil Indicators: (Applicable to a	M=Reduced Matrix. ² Loca	tion: PL=Pore	Lining, F		nel, M=Matrix.
_ Histosol (A1)	Sandy Redox (S5)	•			for Problematic Hydric Soils ³ :
Histic Epipedon (A2)	Stripped Matrix (S	•			Muck (A9) (LRR C) Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Min	•			ed Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Ma				arent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F				(Explain in Remarks)
_ 1 cm Muck (A9) (LRR D)	Redox Dark Surface	ce (F6)			. ,
Depleted Below Dark Surface (A11)	Depleted Dark Sur				
_ Thick Dark Surface (A12)	Redox Depression	ıs (F8)		. 197	
_ Sandy Mucky Mineral (S1)	Vernal Pools (F9)				of hydrophytic vegetation and
_ Sandy Gleyed Matrix (S4)				wetland	hydrology must be present.
estrictive aver (if present).				1	
estrictive Layer (if present):					
Type:	 -				- V
Type: Depth (inches):	2 ()	į		Hydric Soil	Present? Yes No
Type: Depth (inches): emarks:	**	Ī		Hydric Soil	Present? Yes No
Type: Depth (inches):	* * 1 * 2 * 1 * 2 * 1 * 1 * 1 * 1 * 1 *	Ī1			Present? Yes No
Type: Depth (inches): emarks:		Î.		Secon	dary Indicators (2 or more required)
Type: Depth (inches): emarks: 'DROLOGY etland Hydrology Indicators:				Secon	dary Indicators (2 or more required) ater Marks (B1) (Riverine)
Type:	ficient)	1		<u>Secon</u> W Se	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine)
Type:	ficient) Salt Crust (B11)			<u>Secon</u> W Se Di	dary Indicators (2 or more required) ater Marks (B1) (Riverine)
Type: Depth (inches): emarks: TDROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is suff _ Surface Water (A1) _ High Water Table (A2)	ficient) Salt Crust (B11) Biotic Crust (B12)	ites (B13)		Secon	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine)
Type:	ficient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide	ites (B13) Odor (C1)	ving Root	Secon W Se Di Di Di Di Di Di Di D	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10)
Type:	ficient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide	ites (B13) Odor (C1) neres along Li	ving Root	Secon W Secon Di Di Di Secon Di Secon Di Di Secon Th	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2)
Type:	ficient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc	ntes (B13) Odor (C1) neres along Li ced Iron (C4)		Secon W Secon Di Di Di Secon Th Cr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) iff Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7)
Type:	ficient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc	ites (B13) Odor (C1) neres along Li ced Iron (C4) ction in Plowe		Secon W Secon Description Description The Cree Second	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) iff Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8)
Type:	ficient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu	ites (B13) Odor (C1) neres along Li ced Iron (C4) ction in Plowe		Secon W Secon Description The Cr Secon Secon Secon Secon Secon	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C8)
Type:	ficient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Reduct Recent Iron Reduct Other (Explain in F	ites (B13) Odor (C1) neres along Li ced Iron (C4) ction in Plowe		Secon W Secon Description The Cr Secon Secon Secon Secon Secon	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (Ctallow Aquitard (D3)
Type:	ficient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Reduction Reduction Recent Iron Reduction Other (Explain in Figure 1) No Depth (inches):	ites (B13) Odor (C1) neres along Li ced Iron (C4) ction in Plowe		Secon W Secon Description The Cr Secon Secon Secon Secon Secon	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (Ctallow Aquitard (D3)
Type:	ficient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Reduction Reduction Recent Iron Reduction Other (Explain in Figure 1) No Depth (inches):	ates (B13) Odor (C1) neres along Li ced Iron (C4) ction in Plower Remarks)		Secon W Secon Description The Cr Secon Secon Secon Secon Secon	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (Ctallow Aquitard (D3)
Type:	ficient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduct Other (Explain in Filter) No Depth (inches): No Depth (inches):	ntes (B13) Odor (C1) neres along Li ced Iron (C4) ction in Plower Remarks)	d Soils (C	Secon	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (Ctallow Aquitard (D3)
Type:	ficient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduct Other (Explain in Filter) No Depth (inches): No Depth (inches):	ntes (B13) Odor (C1) neres along Li ced Iron (C4) ction in Plower Remarks)	d Soils (C	Secon	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
Type:	ficient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduct Other (Explain in Filter) No Depth (inches): No Depth (inches):	ntes (B13) Odor (C1) neres along Li ced Iron (C4) ction in Plower Remarks)	d Soils (C	Secon	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
Type:	ficient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduct Other (Explain in Filter) No Depth (inches): No Depth (inches):	ntes (B13) Odor (C1) neres along Li ced Iron (C4) ction in Plower Remarks)	d Soils (C	Secon	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)

Project/Site: North County Corrido	~	City/County: _5ta	anislaus	_ Sampling Date: _3 / 13/2019
Applicant/Owner: Stanislaus County	I TI ENGLEC	TI THE WAY	State: CA	Sampling Point:
Investigator(s): MIKETrue Hood Damau				
Landform (hillslope, terrace, etc.):		Local relief (concave	, convex, none):	Slope (%):
Subregion (LRR):				
Soil Map Unit Name:				fication:
Are climatic / hydrologic conditions on the site typical for t	this time of ve			
Are Vegetation, Soil, or Hydrology		_		present? Yes No
Are Vegetation, Soil, or Hydrology			needed, explain any answ	
SUMMARY OF FINDINGS - Attach site ma				
Hydrophytic Vegetation Present? Yes	/		n w	§ 11 1 9 7 7 1 1 1 1 1 1 1 1
Hydric Soil Present? Yes		Is the Sample within a Wetla		No
Wetland Hydrology Present? Yes	No	Within a Work	163	
Remarks:	UPla	nd data por	7.4	
	# B B S D	tatia por	r. Adi	
			The state of	
VEGETATION				
Troo Stratum (Use ecientific names)	Absolute		Dominance Test wor	ksheet:
Tree Stratum (Use scientific names.) 1		Species? Status	Number of Dominant S That Are OBL, FACW	
2.				75 111111
3.			Total Number of Domi Species Across All Str	
Total Cove	er:		Percent of Dominant S That Are OBL, FACW,	
Sapling/Shrub Stratum			_ 12	200
1.			Prevalence Index wo	
2.			Total % Cover of:	Multiply by:
3 4				x 2 =
5				x3 =
	er:			x 4 =
Herb Stratum				x 5 =
1. Herderm murinum Harrichem	<u>\$0 /</u> a		Column Totals:	(A) (B)
2. Amsinkia menzezi	10%	NO UPL		T AND
3. Evedirm sp.	<u> 40%</u> 5%	Yes UPL	Hydrophytic Vegetati	c = B/A =
4. Centainea Sulstitialis	5%	NO WIL	Dominance Test is	
5. Arena Satua		NO VPL	Prevalence Index	
6 7		7 17 7		aptations ¹ (Provide supporting
8. 111111111111111111111111111111111111			data in Remark	s or on a separate sheet)
	r: 90″ 10	13,54	Problematic Hydro	phytic Vegetation ¹ (Explain)
Woody Vine Stratum		731 (7)		THE PLAN OF THE PARTY OF THE PA
1.		1 5170 111 11	Indicators of hydric so be present.	il and wetland hydrology must
2.				
Total Cove			Hydrophytic Vegetation	
% Bare Ground in Herb Stratum % Cove	r of Biotic Cn	ust	Present? Ye	s No
Remarks:				
4				

Profile Descu	rintion: (Describe t	to the depth	needed to document the indicator or conf	Sampling Point: /c
Depth	Matrix	·	Redox Features	in the absence of indicators.
(inches)	Color (moist)	%	Color (moist) % Type ¹ Loc ²	Texture Remarks
0-1211	7.5483/3	10014		
		<u> 1441</u>		College city clay lugar
8	18			
	- V			<u> </u>
20	sa er a eta ilijai i			
	ncentration, D=Deple		educed Matrix. ² Location: PL=Pore Lining,	RC=Root Channel, M=Matrix.
		DIE TO All LK	Rs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (/			Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Black Hist	pedon (A2) lic (A3)		Stripped Matrix (S6) Loamy Mucky Mineral (F1)	2 cm Muck (A10) (LRR B)
	Sulfide (A4)		Loamy Gleyed Matrix (F2)	Reduced Vertic (F18) Red Parent Material (TF2)
	Layers (A5) (LRR C))	Depleted Matrix (F3)	Other (Explain in Remarks)
1 cm Mucl	k (A9) (LRR D)		Redox Dark Surface (F6)	
	Below Dark Surface	(A11)	Depleted Dark Surface (F7)	
	k Surface (A12)		Redox Depressions (F8)	
	cky Mineral (S1)		Vernal Pools (F9)	³ Indicators of hydrophytic vegetation and
	yed Matrix (S4)			
Dandaladia a La				wetland hydrology must be present.
	yer (if present):			wetland hydrology must be present.
Туре:	yer (if present):			
Type: Depth (inch	yer (if present):			Hydric Soll Present? Yes No
Type: Depth (inch	yer (if present):		# # # # # # # # # # # # # # # # # # #	
Type: Depth (inch	yer (if present):			
Туре:	yer (if present):			
Type: Depth (inch	yer (if present):			
Type: Depth (inch Remarks:	yer (if present):			
Type: Depth (inchese Remarks: YDROLOG	yer (if present):			
Type: Depth (inchesternarks: YDROLOG Wetland Hydro	yer (if present): es):Y			Hydric Soll Present? Yes No Secondary Indicators (2 or more required)
Type: Depth (incherent incherent inchere	yer (if present): es): Y plogy Indicators: ors (any one indicators		0	Hydric Soll Present? Yes No
Type:	yer (if present): es): Y plogy Indicators: ors (any one indicators		t) Salt Crust (B11)	Hydric Soll Present? Yes No
Type:	yer (if present): es): Y plogy Indicators: ors (any one indicator (A1) r Table (A2)		0	Hydric Soll Present? Yes No
Type: Depth (incherent incherent inchere	yer (if present): es): Y plogy Indicators: ors (any one indicator (A1) r Table (A2)	or is sufficien	t) Salt Crust (B11) Biotic Crust (B12)	Hydric Soll Present? Yes No
Type: Depth (incherent incherent inchere	yer (if present): es): plogy indicators: ors (any one indicator ater (A1) r Table (A2) (A3) ks (B1) (Nonriverine	or is sufficien	t) Sait Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Hydric Soll Present? Yes No
Type: Depth (incherent Semarks: YDROLOG Wetland Hydro Primary Indicate Surface Wetligh Water High Water Saturation Water Mark Sediment D	yer (if present): es): Y plogy Indicators: ors (any one indicator ater (A1) r Table (A2) (A3)	or is sufficien e) iverine)	t) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) oots (C3) Thin Muck Surface (C7)
Type: Depth (incherent incherent inchere	yer (if present): es): Y plogy indicators: ors (any one indicate ater (A1) r Table (A2) (A3) ks (B1) (Nonriverine	or is sufficien e) iverine)	t) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8)
Type: Depth (incherent incherent incher	yer (if present): es): Y plogy Indicators: ors (any one indicator ater (A1) r Table (A2) (A3) ks (B1) (Nonriverine Deposits (B2) (Nonriverinits (B3) (Nonriverinits	or is sufficien a) iverine) e)	t) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) (C6) Saturation Visible on Aerial Imagery (C9)
Type: Depth (incherents: YDROLOG Netland Hydro Primary Indicate Surface Water High Water Saturation Water Mark Sediment D Drift Depose Surface So Inundation	yer (if present): es): Y plogy Indicators: ors (any one indicator ater (A1) r Table (A2) (A3) ks (B1) (Nonriverine Deposits (B2) (Nonriverine ilt (B3) (Nonriverine il Cracks (B6)	or is sufficien a) iverine) e)	t) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Type:	yer (if present): es): y plogy Indicators: ors (any one indicator ater (A1) r Table (A2) (A3) ks (B1) (Nonriverine Deposits (B2) (Nonriverine its (B3) (Nonriverin il Cracks (B6) Visible on Aerial Imaned Leaves (B9)	or is sufficien a) iverine) e)	t) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) (C6) Saturation Visible on Aerial Imagery (C9)
Type:	yer (if present): es): y plogy indicators: ors (any one indicatorater (A1) r Table (A2) (A3) ks (B1) (Nonriverine (A3) Deposits (B2) (Nonriverine (A3) its (B3) (Nonriverine	or is sufficien e) iverine) ie)	t) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils Other (Explain in Remarks)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Type:	yer (if present): es): y plogy indicators: ors (any one indicate ater (A1) r Table (A2) (A3) ks (B1) (Nonriverine Deposits (B2) (Nonri iits (B3) (Nonriverin iil Cracks (B6) Visible on Aerial Ima ned Leaves (B9) ions: Present? Yes	or is sufficien e) iverine) e) agery (B7)	t) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils Other (Explain in Remarks)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Type:	yer (if present): es): Y plogy Indicators: ors (any one indicator ater (A1) r Table (A2) (A3) ks (B1) (Nonriverine Deposits (B2) (Nonriverine ill Cracks (B6) Visible on Aerial Ima and Leaves (B9) ions: Present? Yes esent? Yes	or is sufficien iverine) agery (B7) No	t) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils Other (Explain in Remarks)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)

Remarks:

Project/Site: North County Corrido	×	City/Cour	ntv: Sta	anislaus Sampling Date: 3/13/1
Applicant/Owner: Stanislaus County				
Investigator(s): MIKETYUZHIOOd Daynal	Inchell	Section,	Township, R	ange:
Landform (hillslope, terrace, etc.):				The second secon
Subregion (LRR):				
Soil Map Unit Name:				
Are climatic / hydrologic conditions on the site typical for				
Are Vegetation, Soil, or Hydrology			-	"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology				needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site ma				
Hydrophytic Vegetation Present? Hydric Soil Present? Yes ✓ Yes ✓ Wetland Hydrology Present? Yes ✓	No		the Sample thin a Wetla	d Area and? Yes _ ✓ No
Remarks:		>	i viji i	
		1993		
VEGETATION				A
	Absolute	Domina	nt Indicator	Dominance Test worksheet:
Tree Stratum (Use scientific names.) 1		Species	? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3.				Species Across All Strata: (B)
4.				Percent of Dominant Species
Total Cov Sapling/Shrub Stratum	er:			That Are OBL, FACW, or FAC: (A/B)
1				Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3.				OBL species x 1 =
4				FACW species x 2 =
5				FAC species x 3 =
	er:			FACU species x 4 =
Herb Stratum 1. Synche & SSusy S	2010	Yer	ObL	UPL species x 5 =
	60%	Yor	ObL	Column Totals: (A) (B)
2. Eterchan manastactyr. 3. LyThur hycoppi Schia	10/0	No	Feew	Prevalence Index = B/A =
4			_ 111111	Hydrophytic Vegetation Indicators:
5			T _a	✓ 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	- 4		7	Problematic Hydrophytic Vegetation¹ (Explain)
Total Cove Woody Vine Stratum	er: <u>4010</u>			
1				¹ Indicators of hydric soil and wetland hydrology must
2. 216/23/22 216/23/24			a Sile	be present.
Total Cove	er:	-	11 91	Hydrophytic
	er of Biotic Cr	ust		Vegetation Present? Yes No
Remarks:	or broad or		9111	riesenti ies v No
Tomana.				

	ription: (Describe	to the deb				or confiri	m the absence	of Indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	dox Feature %		Loc ²	Texture	Remarks
(IIICITOS)	Color (moist)		. Color (IIIOIS()		TYDE	LOC	Texture	Remarks
1 - 10 "	7.57R 3/2	90%	5 7 R 3/4	10%	<u> </u>	M		Sanay Ican
					4.			
		-						
20								
	ncentration, D=Dep				PL=Por	E Lining, F	RC=Root Chann	el, M=Matrix.
ydric Soil i	ndicators: (Applic	able to all	LRRs, unless oth	erwise note	id.)		Indicators	for Problematic Hydric Soils ³ :
_ Histosol			Sandy Re	dox (S5)			1 cm M	luck (A9) (LRR C)
	ipedon (A2)		Stripped I	Matrix (S6)			2 cm M	uck (A10) (LRR B)
_ Black His	• •		Loamy M	ucky Mineral	(F1)		Reduce	ed Vertic (F18)
	n Sulfide (A4)			eyed Matrix	(F2) .		Red Pa	rent Material (TF2)
_ Stratified	Layers (A5) (LRR 0	;)	Depleted	Matrix (F3)			Other (i	Explain in Remarks)
_ 1 cm Mud	k (A9) (LRR D)		Redox Da	irk Surface (I	- 6)			
Depleted	Below Dark Surface	e (A11)	Depleted	Dark Surface	(F7)			
_ Thick Dar	k Surface (A12)		✓ Redox De	pressions (F	8)			
	ucky Mineral (S1)		Vernal Po	ols (F9)			³ Indicators of	of hydrophytic vegetation and
	eyed Matrix (S4)							hydrology must be present.
	ayer (if present):							
	nes):						Hydric Soil I	Present? Yes V No
emarks:							1 3,2	10
DROLOG								
	ology Indicators:	41						dary Indicators (2 or more required)
	tors (any one indica	tor is suffic						ater Marks (B1) (Riverine)
_ Surface W			Salt Crus	` '			Se	diment Deposits (B2) (Riverine)
High Wate	er Table (A2)		Biotic Cru	int (D43)				ft Deposits (B3) (Riverine)

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient)	Water Marks (B1) (Riverine)
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C Surface Soll Cracks (B6) Recent Iron Reduction in Plo Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Water-Stained Leaves (B9)	Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) g Living Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8)
Surface Water Present? Yes No ✓ Depth (inches): Water Table Present? Yes No ✓ Depth (inches): Saturation Present? Yes No ✓ Depth (inches): 7/0" (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous in	Wetland Hydrology Present? Yes Nospections), if available:
Remarks:	

Project/Site: Norm County	Corrido		City/Cour	nty: <u>5</u> ta	anislaus	_ Sampling Date: 3113 /20
Applicant/Owner: Stanislaus Co						
nvestigator(s): MIKETRUEDION	d Dayna Wi	ncheil	Section,	Township, R	ange:	LE MOVE S
andform (hillslope, terrace, etc.):						
ubregion (LRR):						
oil Map Unit Name:						
re climatic / hydrologic conditions on the						
re Vegetation, Soil, or H						present? Yes _ V No
re Vegetation, Soil, or H					eeded, explain any answ	
UMMARY OF FINDINGS - Att						
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes N	No	Is	the Sample	d Area	No
Remarks:	1031			1 10		H A - 11 ppla
			pland	desta p	015	
EGETATION	- 11-			WE AND	1 1 1 1 1	
ree Stratum (Use scientific names.)		Absolute % Cover		nt Indicator	Dominance Test work	
<u> </u>	Hell a				Number of Dominant S That Are OBL, FACW,	
					Total Number of Domi	nant .
					Species Across All Str	
					Percent of Dominant S	pecies _ O,
apling/Shrub Stratum	Total Cove	r:			That Are OBL, FACW,	
de la composition della compos					Prevalence Index wo	rksheet:
					Total % Cover of:	Multiply by:
					OBL species	x 1 =
					FACW species	x 2 =
						x3=
erb Stratum	Total Cover	r:				x 4 =
Canyaven solchtialis		104	M/0	UPI	1	x 5 =
Grandium Sp.	ш	3014	Kas	UPL	Column Totals:	(A)(E
Hardam murinum tepandum		4046	Yas	UPL	Prevalence Index	c = B/A =
Brussee wigen		290	NO	UPL	Hydrophytic Vegetation	on Indicators:
Holocopa virgate		1010	No	VPL	Dominance Test is	
					Prevalence Index i	
			2 . 4		Morphological Ada	ptations ¹ (Provide supporting s or on a separate sheet)
				- 10	l .	phytic Vegetation ¹ (Explain)
oody Vine Stratum	Total Cover	9 20			511 1	(Enplant)
Socy VIII S Sudden	IDI IŽ U E	· 	n III va		¹ Indicators of hydric soil be present.	and wetland hydrology must
	Total Cover				Hydrophytic	
Bare Ground in Herb Stratum					Vegetation	
	% Cover	of Biotic Cr	ust		Present? Ye	s No
emarks:		51 2				

ome book	ription: (Describe	to the dept	h needed to docum	nent the i	ndicator	or confin	m the absence	of Indicators.)
Depth (inches)	Matrix Color (moint)			x Features		. 2		
(inches)	Color (moist)	%	Color (moist)	<u></u>		_Loc ²	<u>Texture</u>	Remarks
0-10	107032	75%	7.5 4R 5/8	5/0		·M	All Sales	cly loan
								<u> </u>
N.					3			
	ncentration, D=Dep			Location:	PL=Por	e Lining, F	RC=Root Chann	nel, M=Matrix.
		able to all L	RRs, unless otherv	wise note	d.)			for Problematic Hydric Soils ³ :
Histosol (Sandy Redox					fuck (A9) (LRR C)
	ipedon (A2)		Stripped Mat					fuck (A10) (LRR B)
Black His			Loamy Muck					ed Vertic (F18)
	n Sulfide (A4) Layers (A5) (LRR 0	•1	Loamy Gleye Depleted Mar		F2) .			arent Material (TF2)
	ck (A9) (LRR D)	"	Redox Dark S		-6)		Other (Explain in Remarks)
	Below Dark Surface	∍ (A11)	Depleted Dar		•			
	k Surface (A12)		→ Redox Depre					
	ucky Mineral (S1)		Vernal Pools	(FQ)			3Indicators	at handman had been a second of
0				(1.9)			mulcators	or nydropnytic vegetation and
	eyed Matrix (S4)			(1 3)				of hydrophytic vegetation and hydrology must be present.
	eyed Matrix (S4) ayer (if present):			(10)	7.			
	ayer (if present):			(13)				
Restrictive L	ayer (if present):			(13)				hydrology must be present.
Type:	ayer (if present): nes): rology Indicators: tors (any one indicators (any one indicator (A1)) or Table (A2) (A3) rks (B1) (Nonrivering (B2) (Nonrivering (B3) (Nonriveri	ne) riverine) ne)	Salt Crust (B Biotic Crust (Aquatic Invention Hydrogen Su Oxidized Rhi Presence of Recent Iron I	811) (B12) rtebrates (ulfide Odo izospheres Reduced Reduction	r (C1) s along L Iron (C4) in Plowe	Vx.	Hydric Soil	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ater Marks (B2) (Riverine) iff Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C2)
Type: Depth (incl Remarks: TOROLOG Vetland Hydr rimary Indica Surface W High Wate Saturation Water Mai Sediment Drift Depoi Surface So Inundation	ayer (if present): nes): cology Indicators: tors (any one indicators (any one indicators): responsive (A2) (A3) responsive (B2) (Nonrivering (B2) (Nonrivering (B3) (Nonri	ne) riverine) ne)	Salt Crust (B Biotic Crust (Aquatic Inver Hydrogen Su Oxidized Rhi Presence of	811) (B12) rtebrates (ulfide Odo izospheres Reduced Reduction	r (C1) s along L Iron (C4) in Plowe	Vx.	Second	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) alinage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8)
Type: Depth (incl Remarks: YDROLOG Yetland Hydr Immary Indica Surface W High Wate Saturation Water Mai Sediment Drift Depo Surface So Inundation Water-Stai	ayer (if present): nes): rology Indicators: tors (any one indicators (any one indicators (any one indicators) rater (A1) rater (A1) rater (A2) (A3) rks (B1) (Nonriverinators (B2) (Nonriverinators (B3) (Nonriverinators	ne) riverine) ne) nagery (B7)	Salt Crust (B Biotic Crust (Aquatic Inve- Hydrogen Su Oxidized Rhi Presence of Recent Iron I Other (Explain	311) (B12) rtebrates (ulfide Odo izospheres Reduced Reduction in in Rema	r (C1) s along L Iron (C4) in Plowe	Vx.	Second	hydrology must be present. Present? Yes No
Type: Depth (incl Remarks: TOROLOG Vetland Hydr Imary Indica Surface W High Wate Saturation Water Mai Sediment Drift Depoi Surface So Inundation Water-Stai eld Observa	ayer (if present): nes): rology Indicators: tors (any one indicators (any one indicators (any one indicators (as) (as) result (A3) result (A3) result (A3) result (A3) (Nonrivering (A3) (Nonr	ne) riverine) ne) nagery (B7)	Salt Crust (B Biotic Crust (Aquatic Inve- Hydrogen St Oxidized Rhi Presence of Recent Iron I Other (Expla	311) (B12) rtebrates (ulfide Odo izospheres Reduced Reduction in in Rema	r (C1) s along L Iron (C4) in Plowe arks)	Vx.	Second	hydrology must be present. Present? Yes No
Type: Depth (incl Remarks: TOROLOG Vetland Hydr rimary Indica Surface W High Wate Saturation Water Mai Sediment Drift Depoi Surface So Inundation Water-Stai eld Observa	ayer (if present): nes): rology Indicators: tors (any one indicators (any one indicators (any one indicators)) or Table (A2) (A3) rks (B1) (Nonrivering (B2) (Nonrivering (B3) (Nonrivering	ne) riverine) ne) nagery (B7) s No	Salt Crust (B Biotic Crust (Aquatic Inve- Hydrogen Su Oxidized Rhi Presence of Recent Iron I Other (Explain	811) (B12) rtebrates (ilfide Odor izosphere: Reduced Reduction in in Remains	r (C1) s along L lron (C4) in Plowe arks)	ed Soils (C	Second Second	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (Callow Aquitard (D3)
Type:	ayer (if present): nes): cology Indicators: tors (any one indicators (any one indicators (any one indicators) respectively: respectively	ne) riverine) ne) nagery (B7) s No s No	Salt Crust (B Biotic Crust (Aquatic Invertigation Hydrogen Su Oxidized Rhi Presence of Recent Iron I Other (Explain Depth (inche	811) (B12) rtebrates (ulfide Odor izosphere: Reduced Reduction in in Remains es):	r (C1) s along L lron (C4) in Plowe arks)	ed Soils (C	Second Second With the second secon	Present? Yes No

Hydric Soil Present? Yes _ X N	Lat:	Section Local r Local r ear? Yes disturbe oblemati g samp	n, Township, Roelief (concave, South No Legal Property No Legal Pr	State:CA Sampling Point: 9
Landform (hillslope, terrace, etc.): Subregion (LRR): Soil Map Unit Name: Are climatic / hydrologic conditions on the site typical for the Are Vegetation Soil, or Hydrology Are Vegetation, Soil, or Hydrology SUMMARY OF FINDINGS - Attach site map Hydrophytic Vegetation Present? Hydric Soil Present? Yes, Note that the present is a second of the present is a second o	Lat:	Section Local r Local r disturbe oblemati samp	s No_ edief (concave, s No_ ed? Are c? (If n olling point s the Sample within a Wetla	ange:
Landform (hillslope, terrace, etc.): Subregion (LRR): Soil Map Unit Name: Are climatic / hydrologic conditions on the site typical for the Are Vegetation, Soil, or Hydrology Are Vegetation, Soil, or Hydrology SUMMARY OF FINDINGS - Attach site map Hydrophytic Vegetation Present? Hydric Soil Present? Yes, Market, Market	Lat: nis time of your significantly property of showing No No No Absolute % Cover	ear? Yes disturbe oblemati	No N	Convex, none): Slope (%): Long: Datum: NWI classification: (If no, explain in Remarks.) "Normal Circumstances" present? Yes No Deeded, explain any answers in Remarks.) Cocations, transects, important features, et al. Cocations, transects, important features, et al. Dominance Test worksheet: Number of Dominant Species Company
Subregion (LRR): Soil Map Unit Name: Are climatic / hydrologic conditions on the site typical for the Are Vegetation, Soil, or Hydrology Are Vegetation, Soil, or Hydrology SUMMARY OF FINDINGS - Attach site map Hydrophytic Vegetation Present? Hydric Soil Present? Hydric Soil Present? Wetland Hydrology Present? Wetland Hydrology Present? Remarks: VEGETATION Tree Stratum (Use scientific names.) 1.	Lat: nis time of your significantly property of showing the showing the showing the showing the showing the shoot of	pear? Yes disturbe oblemati g samp	s No	NWI classification: (If no, explain in Remarks.) "Normal Circumstances" present? Yes No eeded, explain any answers in Remarks.) locations, transects, important features, et d Area and? Yes No Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant
Are climatic / hydrologic conditions on the site typical for the Are Vegetation, Soil, or Hydrology Are Vegetation, Soil, or Hydrology Are Vegetation, Soil, or Hydrology SUMMARY OF FINDINGS - Attach site map Hydrophytic Vegetation Present? Yes, May a soil Present? Yes	significantly property showing No	par? Yes	s No	NWI classification: (If no, explain in Remarks.) "Normal Circumstances" present? Yes No leeded, explain any answers in Remarks.) locations, transects, important features, et d Area and? Yes No Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant
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Are Vegetation, Soil, or Hydrology Are Vegetation, Soil, or Hydrology SUMMARY OF FINDINGS - Attach site map Hydrophytic Vegetation Present? Yes, Market	significantly naturally pr showing No No No Absolute % Cover	Domin Specie	ed? Are c? (If n olling point s the Sample within a Wetla eant Indicator es? Status	"Normal Circumstances" present? Yes No
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Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: VEGETATION Tree Stratum (Use scientific names.) 1.	Absolute 6 Cover	Domin Specie	s the Sample within a Wetla mant Indicator as? Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant
VEGETATION Tree Stratum (Use scientific names.) 1.	% Cover	Specie	es? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant
<u>Tree Stratum</u> (Use scientific names.) 1.	% Cover	Specie	es? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant
1.	% Cover	Specie	es? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant
				Total Number of Dominant
3.				Species Across All Strata: (B)
4Total Cover	 r:			Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum				
1				Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
3.				OBL species x1 =
4 5.				FACW species x 2 = FAC species x 3 =
Total Cover	 r			FACU species x 4 =
Herb Stratum	' · 	•		UPL species x 5 =
1. Juneus effusions	56	4	FACW	Column Totals: (A) (B)
inknown annual grass	50	4	- Fac	
3. Erodium botrys	2_	n	-rai	Prevalence Index = B/A =
	2	<u>n</u>	Facw	Hydrophytic Vegetation Indicators:
5.Conyza (anactensis			Facu	Dominance Test is >50% Prevalence Index is ≤3.0¹
5				Morphological Adaptations¹ (Provide supporting
7				data in Remarks or on a separate sheet)
Total Cover			3 1	Problematic Hydrophytic Vegetation ¹ (Explain)
Noody Vine Stratum				The state of the s
				¹ Indicators of hydric soil and wetland hydrology must be present.
2.				
Total Cover	•			Hydrophytic Vegetation
% Bare Ground in Herb Stratum % Cover	of Biotic Cr	ust		Present? Yes No
Remarks: VNKNOWN annual gruss ass	ivmed	Facult	iatrus sia	the it only occurs in The smale
area.				

Type: C=Concentration, D=Depletion, RM=Reduced Matrix: *\fraction: PL=Pore Lining, RC=Root Channel, M=Matrix.	(inches)	Matrix	18	Rec	dox Feature	S			
Type: C=Concentration, D=Depletion, RM=Reduced Matrix. *Location: PL=Pore Lining, RC=Root Channel, M=Matrix.		Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
Specific Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*:							11 02	Walley Lot 3	
Type: C=Concentration, D=Depletion, RM=Reduced Metrix.	0-7"	10YR 2/2	95	54R 4/10	5	C	M		clauloam
Type: C=Concentration, D=Depletion, RM=Reduced Matrix. *Location: PL=Pore Lining, RC=Root Channel, M=Matrix. ludicators: (Applicable to all LRRs, unless otherwise noted.) Histosciplopdon (A2)	7-111	1040 3/4		301	20	(40		1 0000
Indicators for Problematic Hydric Soils*: Histos (IA)		10.02.00		310.70				*	TOUR
Indicators for Problematic Hydric Soils*: Histos (IA)					W				
histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) 1 histosol (A1) Sandy Redox (S5)			-						
Histos (A1) Histos (A1) Histos (A2) Histos (A3) Histos (A4) Depleted Matrix (F3) Histos (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Reduced Vertic (TS .	7						
Histos (Ar) Carlo					² Location	PL=Por	e Lining, F	RC=Root Chan	nel, M≃Matrix.
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Red Parent Material (F2) Other (Explain in Remarks) Other (Explain in Remarks) Pepleted Below Dark Surface (A11) Thick Oark Surface (A12) Sandy Mucky Mineral (F3) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (F3) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sendy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Vernal Pools (F9) Papelted Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Vernal Pools (F9) Papelted Layer (if present): Type: Depth (inches): Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Surface Water (A1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) (Nonriverine) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soll Cracks (B6) Recent Iron Reduction in Plowed Soils (C8) Seturation Visible on Aerial Imagery (C5) Subtract Soll Cracks (B6) Recent Iron Reduction in Plowed Soils (C8) Shallow Aquitard (D3) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) No Seturation Visible on Aerial Imagery (C5) Shall Observations: Irace Water Present? Yes No Depth (inches): 711' Wetland Hydrology Present? Yes No Depth (inches): 711' Wetland Hydrology Present? Yes No Depth (inches): 711' Wetland Hydrology Present? Yes No Soll Depth (inches): 711' Bread Table (C2) Water Stained Leaves (B9) FAC-Neutral Test (D5)	lydric Soil	Indicators: (Applic	able to all	LRRs, unless other	erwise note	ed.)		Indicators	for Problematic Hydric Soils ³ :
Black Histic (A3)	Histosol	I (A1)		Sandy Red	dox (S5)			1 cm i	Muck (A9) (LRR C)
Hydrogen Sulfide (Aa) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Estrictive Layer (if present): Type: Depth (inches): Depth (inches): Depth (inches): Biotic Crust (B12) Saturation (A3) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Diff Deposits (B3) (Nonriverine) Drift Deposits				Stripped M	latrix (S6)				
Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Lestrictive Layer (if present): Type: Deplit (inches): Depleting Indicators: Indicators of hydrophytic vegetation and wetland hydrology must be present. Bear Marks (B1) (Riverine) Secondary Indicators (2 or more required) Indicators (A12) Mater Marks (B1) (Riverine) Surface Water (A1) Saturation (A3) Saturation (A3) Saturation (A3) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drift Deposits (B2) (Nonriverine) Drift Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soll Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (B7) Unificators (PS) Water Marks (B1) Water Ma				Loamy Mu	cky Mineral	(F1)		Reduc	ced Vertic (F18)
1 cm Muck (A9) (LRR D)				Loamy Gle	yed Matrix	(F2)		Red P	arent Material (TF2)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Seardy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sestrictive Layer (if present): Type: Depth (inches): Bethick Surface (A12) Depleted Dark Surface (F7) Wetland hydrology must be present. Wetland hydrology must be present. Hydric Soil Present? Yes No Moderate Marks (B1) (Riverine) Surface Water (A1) Surface Water (A1) Surface Water (A2) Surface (B1) Surface (B1) Water Marks (B1) (Nonriverine) Surface (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drift Deposits (B2) (Nonriverine) Drift Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water Marks (B1) Other (Explain in Remarks) Wetland Hydrology Present? Wetland Hydrology Present? No Depth (inches): Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Cherck (B6) Cherck (B6) Cherck (B6) Cherck (B6) Cherck (B7) Cherck (Explain in Remarks) FAC-Neutral Test (D5) Water Marks (B1) Wetland Hydrology Present? Yes No Depth (inches): Diff Deposits (B3) (Wetland Hydrology Present? Yes No Depth (inches): Diff Deposits (B3) (Wetland Hydrology Present? Yes No Depth (inches): Diff Deposits (B3) (Wetland Hydrology Present? Yes No Depth (inches): Diff Deposits (B3) (Wetland Hydrology Present? Yes No Depth (inches): Diff Deposits (B3) (Wetland Hydrology Present? Yes No Depth (inches): Diff Deposits (B3) (Wetland Hydrology Present? Yes No Depth (inches): Diff Deposits (B3) (Wetland Hydrology Present? Yes No Depth (inches): Diff Deposits (B3) (Wetland Hydrology Present? Yes No Depth (inches): Diff Deposits (B3) (Wetland Hydrology Present? Yes No Depth (inches): Diff Deposits (B3) (Wetland Hydrology Present? Yes No Depth (inches): Diff Deposits (B3) (Wetland Hydrology Present? Yes No Depth (inches): Diff De			;)		` '				
Thick Dark Surface (A12)Sandy Mucky Mineral (S1)Sandy Gleyed Matrix (S4) Restrictive Layer (if present):	1 cm Mu	uck (A9) (LRR D)		Redox Dar	k Surface (F6)			
Sandy Mucky Mineral (S1)			e (A11)						
Sandy Gleyed Matrix (S4) lestrictive Layer (if present): Type: Depth (inches): Itype: Depth (inches): Depth (inches)	Thick Da	ark Surface (A12)				8)			
Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type:	_ Sandy M	lucky Mineral (S1)		Vernal Poo	ls (F9)			3Indicators	of hydrophytic vegetation and
Tope:									
Depth (inches):	lestrictive I	Layer (if present):						-	
Internatival Content	Type:			_					
Internatival Content	Depth (inc	ches):		T				Hydric Soil	Present? Vos No
Vertaind Hydrology Indicators: Secondary Indicators (2 or more required)								Tiyane con	Tresenti les NO
Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Thin Muck Surface (C7) Dry-									
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	letland Hydrimary Indic	irology Indicators: ators (any one indica	tor is suffic		(B11)		N	w	/ater Marks (B1) (Riverine)
Water Marks (B1) (Nonriverine)	/etland Hydrimary Indic Surface \	irology Indicators: ators (any one indica Water (A1)	tor is suffic	Salt Crust			V.	w	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine)
	/etland Hyd rimary Indic Surface \ High Wat	trology Indicators: ators (any one indica Water (A1) ter Table (A2)	tor is suffic	Salt Crust Biotic Crus	st (B12)	(D40)	. N.	W So D	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine)
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	rimary Indic rimary Indic Surface \ High Wai Saturatio Water Ma	trology Indicators: ators (any one indica Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverin	ne)	Salt Crust Biotic Crus Aquatic In Hydrogen	st (B12) vertebrates Sulfide Odd	or (C1)	, k	W So Do Do	/ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2)
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eld Observations: urface Water Present? Yes No Depth (inches): ater Table Present? Yes No Depth (inches): I' aturation Present? Yes No Depth (inches): I' ucludes capillary fringe) secribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Vetland Hydrimary Indic Surface N High Wat Saturatio Water Ma Sediment Drift Depo	drology Indicators: ators (any one indical Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverin t Deposits (B2) (Nonriverin Soil Cracks (B6)	ne) riverine) ne)	Salt Crust Blotic Crust Aquatic Int Hydrogen Oxidized F Presence of Recent Iro	st (B12) vertebrates Sulfide Odd Rhizosphere of Reduced n Reduction	or (C1) es along L Iron (C4) n in Plowe		W Si Di Di Di Di Ci Si (C3) Ti Si	Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9)
arface Water Present? Yes No/ Depth (inches): ater Table Present? Yes No/ Depth (inches):/ aturation Present? Yes No/ Depth (inches):// icludes capillary fringe) secribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Vetland Hydrimary Indice Surface V High Wale Saturatio Water Ma Sediment Drift Dept Surface S Inundatio	trology Indicators: ators (any one indica Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverin t Deposits (B2) (Nonriverin osits (B3) (Nonriverin Soil Cracks (B6)	ne) riverine) ne)	Salt Crust Blotic Crust Aquatic Int Hydrogen Oxidized F Presence of Recent Iro	st (B12) vertebrates Sulfide Odd Rhizosphere of Reduced n Reduction	or (C1) es along L Iron (C4) n in Plowe			Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 raallow Aquitard (D3)
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	Vetland Hydrimary Indic Surface N High Wat Saturatio Water Ma Sediment Drift Depo Surface S Inundatio Water-Stateld Observ Urface Water Saturation Presidudes capil	drology Indicators: ators (any one indicators) water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverint t Deposits (B2) (Nonriverint soil Cracks (B6) on Visible on Aerial Imained Leaves (B9) ations: r Present? Present? Yes esent? Yes ellary fringe)	ne) ne) nagery (B7	Salt Crust Blotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Other (Exp	st (B12) vertebrates Sulfide Odd Rhizosphere of Reduced in Reduction plain in Rem ches): ches):	or (C1) os along L Iron (C4) on in Plowe marks)	ed Soils (C		Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) nin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3) AC-Neutral Test (D5)

Applicant/Owner: State: CA Sampling Point: 4a Investigator(s): Mr KeTruz Hood Dayna What Section, Township, Range: Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): Slope (%): Datum: Soil Map Unit Name: NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, Hydrophytic Vegetation Present? Yes No Wetland Hydrology Present? Yes No Transects, Important Species No Wetland Present? Yes No Transects Status Number of Dominant Species That Are OBL, FACW, or FAC: 1. Total Number of Dominant Species That Are OBL, FACW, or FAC: 1. Total Number of Dominant Species Across All Strata: 1. (In Percent of Dominant Species Across All Strata: 1. (In Percent of Dominant Species Across All Strata: 1. (In Percent of Dominant Species Across All Strata: 1. (In Percent of Dominant Species Across All Strata: 1. (In Percent of Dominant Species Across All Strata: 1. (In Percent of Dominant Species Across All Strata: 1. (In Percent of Dominant Species Across All Strata: 1. (In Percent of Dominant Species Across All Strata: 1. (In Percent of Dominant Species Across All Strata: 1. (In Percent of Dominant Species Across All Strata: 1. (In Percent of Dominant Species Across All Strata: 1. (In Percent of Dominant Species Across All Strata: 1. (In Percent of Dominant Species Across All Strata: 1. (In Percent of Dominant Species Across All Strata: 1. (In Percent of Dominant Species Across All Strata: 1. (In Percent of Dominant Species Across All Strata: 1. (In Percent of Dominant Species Across All Strata	Project/Site: North County C	orridor	City/County:	anislaus	_ Sampling Date: 3/12
Investigation(s): METPUCE CONTROLANCIAL Section, Township, Range: Landform (hillstops, terrace, etc.): Long: Datum: Notiception (RR): Lat. Long: Datum: Notiception (RR): Lat. Long: Notiception (RR): Notiception (Remarks): Soli Map Unit Name: Notiception (RR): Lat. Notiception (RR): Notiception (Remarks): SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transacts, important features, Hydrophytic Vegetation Present? Yes. No. Is the Sampled Area within a Wetland? Yes. No. VEGETATION Inse Siratum (Use scientific names.) Notiception (Remarks): Noticept					
Lacal reflet (concave, convex, none): Slope (%): Dutrim	Investigator(s): MIKETruchiood	Jayna Wincher	Section, Township, R	Range:	
Subtragion (LRR): Lat: Long: Deturn: Soil Map Unit Name: My ideastification: Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No. Are Vegetation Soil or Hydrology algnificantly disturbed? Are "Normal Circumstances" present? Yes X No. Are Vegetation Soil or Hydrology naturally problematic? (if needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, Hydrophytic Vegetation Present? Yes No. Is the Sampled Area within a Wetland? Yes No. Yes N					
Soll Map Unit Name: Are climatic / hydrologic conditions on the site typical for this time of year? Yes					
Are climatic / hydrologic conditions on the site typical for this time of year? Yes					
Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No. Are Vegetation Soil or Hydrology naturally problemate? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, Hydrophytic Vegetation Present? Yes No. Is the Sampled Area within a Wetland? Yes No. Wetland Hydrology Present? Yes No. Wetland Hydrology Remarks: Interest No. Wetland Hydrology Remarks (If need to be a separate sheet) Total Cover Separate No. Wetland No. Wetland No. Wetland No. No. No. Wetland No.			17500		THE STATE OF THE S
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, Hydrophytic Vegetation Present? Yes No Is the Sampled Area within a Wetland? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Interesting Hydrolytic Vegetation (Previde supporting data in Remarks or on a separate sheet). **Total Cover: Yes No Present? Yes No No			W-1217-4-14-14-14		
SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, Hydrophytic Vegetation Present? Yes No Yes No Wetland Hydrology Present? Wetland Hydrology Present? Vegetation Present? Wetland Hydrology Present? Vegetation Present?					3/1/2/2/3 - 12:
Hydrophytic Vegetation Present? Hydrophytic Vegetation Present? Hydrophytic Scill Present? Westand Hydrology Present? Westand Hydrology Present? VEGETATION VEGETATION Tree Stratum (Use scientific names.) 1. Total Cover: Sapting/Shrub Stratum Total Cover: Total Cover: Total Cover: Total Cover: Sapting Stratum Total Cover: Total					
VEGETATION VesNo				ed Area	
VEGETATION Tree Stratum (Use scientific names.) 1.	Wetland Hydrology Present? Ye	s No	within a Wetla	and? Yes	No
Absolute Spacies? Status (Use scientific names.) Absolute Spacies? Status (Use scientific names.) Absolute Spacies? Status (Use scientific names.) Total Cover: Spacies? Status (Use scientific names.) Total Cover: Spacies? Status (Use scientific names.) Total Cover: Spacies (Use Across All Strata: (Use Sapling/Shrub Stratum (Use scientific names.) Total Cover: Spacies (Use Across All Strata: (Use Sapling/Shrub Stratum (Use scientific names.) Total Cover: Spacies (Use Sapling North North Spacies (Use Sapling North North Spacies (Use Sapling North Spa	U pland	data por it			
Tree Stratum (Use scientific names.) 1.	VEGETATION	Abaduta	Daminant Indicator	10	
Total Number of Dominant Species Across All Strata: Total Cover:		% Cover	Species? Status	Number of Dominant S	pecies
A. Total Cover: Total Cover: Total Cover: Total X-Cover of Multiply by: 1. Prevalence Index worksheet: Total X-Cover of: Multiply by: 3. OBL species	2.				
Prevalence Index worksheet: 1.					\-\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Total % Cover of: Multiply by:	Sapling/Shrub Stratum	Total Cover:	-		
3	1.	R %		Prevalence Index wor	ksheet:
FACW species x 2 =					
Total Cover: Herb Stratum					
Total Cover: Herb Stratum					
Herb Stratum 1. Wocar pha virgata Wound Well W	5.				
1. Polocar pha ving at a 2. Exaction in the prevalence index = B/A =	Herb Stratum	Total Cover:			
Prevalence Index = B/A =	1. Holocarpha vingata		1 UPL		A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Hydrophytic Vegetation Indicators: Dominance Test is >50% Energy and the prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Energy and the prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and wetland hydrology mus be present. Hydrophytic Vegetation Frevalence Index = B/A = Hydrophytic Vegetation of Present? Hydrophytic Vegetation Frevalence Index = B/A = Hydrophytic Vegetation of Present? Hydrophytic Vegetation Fresent? Frevalence Index = B/A = Hydrophytic Vegetation of Present? Frevalence Index = B/A = Hydrophytic Vegetation of Present? Hydrophytic Vegetation Fresent? Frevalence Index = B/A = Hydrophytic Vegetation of Present? Frevalence Index = B/A = Hydrophytic Vegetation of Present? Frevalence Index = B/A = Hydrophytic Vegetation of Present? Frevalence Index = B/A = Hydrophytic Vegetation of Present? Frevalence Index = B/A = Hydrophytic Vegetation of Present? Frevalence Index = B/A = Hydrophytic Vegetation of Present? Frevalence Index = B/A = Hydrophytic Vegetation of Present? Frevalence Index = B/A = Hydrophytic Vegetation of Present? Frevalence Index = B/A = Hydrophytic Vegetation of Present? Frevalence Index = B/A = Hydrophytic Vegetation of Present? Frevalence Index = B/A = Hydrophytic Vegetation of Present? Frevalence Index = B/A = Hydrophytic Vegetation of Present? Frevalence Index = B/A = Hydrophytic Vegetation of Present? Frevalence Index = B/A = Hydrophytic Vegetation of Present? Frevalence Index = B/A = Hydrophytic Vegetation of Present? Frevalence Index = B/A = Hydrophytic Vegetation of Present? Frevalence Index = B/A = Hydrophytic Vegetation of Present o	2. Endum Bains	50	1 UPK		
Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Woody Vine Stratum 1.	3. unknown annual grava		y UPL	1 2	
					- · · · · · · · · · · · · · · · · · · ·
Total Cover: 120 Woody Vine Stratum 1	7.			Morphological Ada	otations1 (Provide supporting
Woody Vine Stratum 1	8.	Total Cover: 120		10.22	8 1 111
2. Total Cover: Hydrophytic Vegetation Present? Yes No X	Woody Vine Stratum	Total Cover.			
Total Cover: Hydrophytic Vegetation Present? Yes NoX	1 <u></u>	WELL VIOLET II			and wetland hydrology must
% Bare Ground in Herb Stratum % Cover of Biotic Crust Present? Yes No					T 1/2 Step 1
% Bare Ground in Herb Stratum % Cover of Biotic Crust Present? Yes NoX		Total Cover:	5 10		. —
	% Bare Ground in Herb Stratum	% Cover of Biotic Cr	rust		No <u>}</u>
	Remarks:	THE	_ IIII		
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Sampling Point:

DepthMa	atrix	Redo	ox Feature	es			
(inches) Color (mo		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-10" DYR3	2 95	757K 5/8	5	_	M	Time internal	Clarker
7888 HE TEN	W-11 - 10 20 20) loan
					- · · ·		9
IV .							
							
							
		_					
e:				40			
Type: C=Concentration, D	=Depletion, RM	=Reduced Matrix.	² Location	: PL≃Pore	 e Linina. F	C=Root Channe	al. M=Matrix
lydric Soil Indicators: (A			rwise not	ed.)	<u></u>	Indicators f	or Problematic Hydric Soils ³ :
_ Histosol (A1)		Sandy Red	ox (S5)				uck (A9) (LRR C)
_ Histic Epipedon (A2)		Stripped Ma	, ,				ick (A10) (LRR B)
_ Black Histic (A3)		Loamy Muc		l (F1)			d Vertic (F18)
_ Hydrogen Sulfide (A4)		Loamy Gley					ent Material (TF2)
_ Stratified Layers (A5) (I	.RR C)	Depleted M					xplain in Remarks)
_ 1 cm Muck (A9) (LRR I		X Redox Dark	Surface (F6)			
Depleted Below Dark S		Depleted Da					
_ Thick Dark Surface (A1		Redox Depr	,	F8)		- 97	
_ Sandy Mucky Mineral (Vernal Pool	s (F9)				f hydrophytic vegetation and
_ Sandy Gleyed Matrix (S	•					wetland h	ydrology must be present.
	nt):						
Туре:							/
Type: Depth (inches):						Hydric Soil P	resent? Yes No No
Type: Depth (inches): emarks:						Hydric Soil P	resent? Yes No No
Type: Depth (inches): emarks:	ors:						
Type: Depth (inches): emarks: DROLOGY etland Hydrology Indicate		cient)				Seconda	ary Indicators (2 or more required)
Type: Depth (inches): emarks: (DROLOGY etland Hydrology Indicating Indicators (any one)			B11)			Seconda Wat	ary Indicators (2 or more required) ter Marks (B1) (Riverine)
Type: Depth (inches): emarks: DROLOGY etland Hydrology Indicat imary Indicators (any one inches) Surface Water (A1)		Salt Crust (•			Seconda War Sed	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine)
Type: Depth (inches): emarks: DROLOGY etland Hydrology Indicatimary Indicators (any one included and image) Surface Water (A1) High Water Table (A2)		Salt Crust ((B12)	(R13)		Seconda Wat Sed Drift	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine)
Type:	ndicator is suffi	Salt Crust (Biotic Crust Aquatic Inv	t (B12) ertebrates			Seconda Wat Sed Drift Dra	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) tinage Patterns (B10)
Type:	ndicator is suffi	Salt Crust (Biotic Crust Aquatic Inv	t (B12) ertebrates Sulfide Od	or (C1)	iving Pool	Seconda Wat Sed Drift Drai	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) tinage Patterns (B10) -Season Water Table (C2)
Type:	ndicator is suffi iverine) (Nonriverine)	Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized Ri	t (B12) ertebrates Sulfide Od hizosphere	or (C1) es along L	-	Seconda Wat Sed Drift Drai Dryv S (C3) Thir	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2)
Type:	ndicator is sufficience iverine) (Nonriverine) riverine)	Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized Ri	t (B12) ertebrates Sulfide Ode hizosphere f Reduced	or (C1) es along L I Iron (C4)		Secondary War War Secondary Seco	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) t Muck Surface (C7) tyfish Burrows (C8)
Type:	ndicator is sufficience iverine) (Nonriverine) riverine)	Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized Ri Presence o	t (B12) ertebrates Sulfide Odd hizosphere f Reduced Reductio	or (C1) es along L I Iron (C4) n in Plowe		Seconda War Sed Driff Dra Dry. s (C3) Thir Cra Cra Satu	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) tinage Patterns (B10) Season Water Table (C2) ti Muck Surface (C7) tyfish Burrows (C8) uration Visible on Aerial Imagery (C5)
Type:	ndicator is sufficience) (Nonriverine) riverine) rial imagery (B7	Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized Ri Presence o Recent Iron	t (B12) ertebrates Sulfide Odd hizosphere f Reduced Reductio	or (C1) es along L I Iron (C4) n in Plowe		Seconda Wai Sed Drifi Drai Dry. s (C3) Thir Crai s (6) Satu Sha	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) n Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Cillow Aquitard (D3)
Type:	ndicator is sufficience) (Nonriverine) riverine) rial imagery (B7	Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized Ri Presence o	t (B12) ertebrates Sulfide Odd hizosphere f Reduced Reductio	or (C1) es along L I Iron (C4) n in Plowe		Seconda Wat Sed Drift Dra: Dry. s (C3) Thir Cra: Cra: Satu Sha	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) tinage Patterns (B10) Season Water Table (C2) ti Muck Surface (C7) tyfish Burrows (C8) uration Visible on Aerial Imagery (C5)
Type:	ndicator is sufficience) (Nonriverine) riverine) rial Imagery (B7	Salt Crust (Biotic Crust (Aquatic Inv (Hydrogen S (Oxidized Ri (Presence o (Recent Iron (Other (Expl	i (B12) ertebrates Sulfide Od- hizosphere f Reduced Reductio ain in Ren	or (C1) es along L I Iron (C4) n in Plowe		Seconda Wat Sed Drift Dra: Dry. s (C3) Thir Cra: Cra: Satu Sha	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) n Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Cillow Aquitard (D3)
Depth (inches): demarks: //DROLOGY //etland Hydrology Indicate firmary Indicators (any one in the second	iverine) (Nonriverine) riverine) rial Imagery (B7	Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized Ri Presence o Recent Iron Other (Expl	t (B12) ertebrates Sulfide Ode hizosphere f Reduced Reductio ain in Ren	or (C1) es along L I Iron (C4) n in Plowe narks)		Seconda Wat Sed Drift Dra: Dry. s (C3) Thir Cra: Cra: Satu Sha	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) n Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Cillow Aquitard (D3)
Type:	iverine) (Nonriverine) riverine) rial Imagery (B7	Salt Crust (Biotic Crust (Aquatic Inv. Hydrogen S Oxidized RI Presence o Recent Iron Other (Expl	t (B12) ertebrates Sulfide Ode hizosphere f Reduced Reductio ain in Ren hes):	or (C1) es along L i Iron (C4) n in Plowe narks)	d Soils (C	Seconda War Seconda Driff Dran Dry. s (C3) Thir Cran s (6) Satu Sha	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) ti Deposits (B3) (Riverine) tinage Patterns (B10) -Season Water Table (C2) tin Muck Surface (C7) tyfish Burrows (C8) tration Visible on Aerial Imagery (Cillow Aquitard (D3) c-Neutral Test (D5)
Type:	iverine) (Nonriverine) riverine) rial Imagery (B7	Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized Ri Presence o Recent Iron Other (Expl	t (B12) ertebrates Sulfide Ode hizosphere f Reduced Reductio ain in Ren hes):	or (C1) es along L I Iron (C4) n in Plowe narks)	d Soils (C	Seconda Wat Sed Drift Dra: Dry. s (C3) Thir Cra: Cra: Satu Sha	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) ti Deposits (B3) (Riverine) tinage Patterns (B10) -Season Water Table (C2) tin Muck Surface (C7) tyfish Burrows (C8) tration Visible on Aerial Imagery (Cillow Aquitard (D3) c-Neutral Test (D5)
Type:	iverine) (Nonriverine) riverine) rial Imagery (B7	Salt Crust (Biotic Crust (Aquatic Inv. Hydrogen S Oxidized Ri Presence o Recent Iron Other (Expl	i (B12) ertebrates Sulfide Ode hizosphere f Reduceto Reductio ain in Ren hes):	or (C1) es along L I Iron (C4) n in Plowe narks)	d Soils (C	Seconda Wat Sed Driff Dra Dry S (C3) Thir Cra Sha FAC	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) ti Deposits (B3) (Riverine) tinage Patterns (B10) -Season Water Table (C2) tin Muck Surface (C7) tyfish Burrows (C8) tration Visible on Aerial Imagery (Cillow Aquitard (D3) c-Neutral Test (D5)
Type:	iverine) (Nonriverine) riverine) rial Imagery (B7	Salt Crust (Biotic Crust (Aquatic Inv. Hydrogen S Oxidized Ri Presence o Recent Iron Other (Expl	i (B12) ertebrates Sulfide Ode hizosphere f Reduceto Reductio ain in Ren hes):	or (C1) es along L I Iron (C4) n in Plowe narks)	d Soils (C	Seconda Wat Sed Driff Dra Dry S (C3) Thir Cra Sha FAC	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) ti Deposits (B3) (Riverine) tinage Patterns (B10) -Season Water Table (C2) tin Muck Surface (C7) tyfish Burrows (C8) tration Visible on Aerial Imagery (Cillow Aquitard (D3) c-Neutral Test (D5)
Type:	iverine) (Nonriverine) riverine) rial Imagery (B7	Salt Crust (Biotic Crust (Aquatic Inv. Hydrogen S Oxidized Ri Presence o Recent Iron Other (Expl	i (B12) ertebrates Sulfide Ode hizosphere f Reduceto Reductio ain in Ren hes):	or (C1) es along L I Iron (C4) n in Plowe narks)	d Soils (C	Seconda Wat Sed Driff Dra Dry S (C3) Thir Cra Sha FAC	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) ti Deposits (B3) (Riverine) tinage Patterns (B10) -Season Water Table (C2) tin Muck Surface (C7) tyfish Burrows (C8) tration Visible on Aerial Imagery (Cillow Aquitard (D3) c-Neutral Test (D5)
Type:	iverine) (Nonriverine) riverine) rial Imagery (B7	Salt Crust (Biotic Crust (Aquatic Inv. Hydrogen S Oxidized Ri Presence o Recent Iron Other (Expl	i (B12) ertebrates Sulfide Ode hizosphere f Reduceto Reductio ain in Ren hes):	or (C1) es along L I Iron (C4) n in Plowe narks)	d Soils (C	Seconda Wat Sed Driff Dra Dry S (C3) Thir Cra Sha FAC	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) ti Deposits (B3) (Riverine) tinage Patterns (B10) -Season Water Table (C2) tin Muck Surface (C7) tyfish Burrows (C8) tration Visible on Aerial Imagery (Cillow Aquitard (D3) c-Neutral Test (D5)
Type:	iverine) (Nonriverine) riverine) rial Imagery (B7	Salt Crust (Biotic Crust (Aquatic Inv. Hydrogen S Oxidized Ri Presence o Recent Iron Other (Expl	i (B12) ertebrates Sulfide Ode hizosphere f Reduceto Reductio ain in Ren hes):	or (C1) es along L I Iron (C4) n in Plowe narks)	d Soils (C	Seconda Wat Sed Driff Dra Dry S (C3) Thir Cra Sha FAC	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) ti Deposits (B3) (Riverine) tinage Patterns (B10) -Season Water Table (C2) tin Muck Surface (C7) tyfish Burrows (C8) tration Visible on Aerial Imagery (Cillow Aquitard (D3) c-Neutral Test (D5)

Project/Site: Novm County Applicant/Owner: Stanislaus Co							
nvestigator(s): MIKETYUZ HIOD.							144
andform (hillslope, terrace, etc.):	200						ne (%)·
ubregion (LRR):							
oil Map Unit Name:							
re climatic / hydrologic conditions on the					211 331111 75	535162 154	
re Vegetation, Soil, or H					"Normal Circumstances"	_	No _
re Vegetation, Soil, or H					eeded, explain any answ		
UMMARY OF FINDINGS - Att	ach site ma	p showing	samp	oling point	locations, transect	s, important fe	atures, (
Hydrophytic Vegetation Present?	Yes			s the Sample	d Area		
Hydric Soil Present?	Yes			within a Wetla		No	
Wetland Hydrology Present?	Yes	No	21]	-11 -		H W W	
Remarks:							
			= -				
EGETATION							្ត ក្រុង ន
ree Stratum (Use scientific names.)		Absolute % Cover		ant Indicator	Dominance Test wor		18
					Number of Dominant S That Are OBL, FACW,		(A
m Tayle March 18 and it us man					Total Number of Domi Species Across All Str		(B
							. ,-
	Total Cov	/er:			Percent of Dominant S That Are OBL, FACW,	or FAC:	A) 61C
Sapling/Shrub Stratum					Prevalence Index wo	1" II ii	
		E C			Total % Cover of:		bur
					OBL species		
					FACW species		
		de la			FAC species		
	Total Cov	er:			FACU species		
erb Stratum					UPL species		
Erynsium sp.		70%	- Yes		Column Totals:	(A)	(E
Ludin bolly		110	M	UPL	Burt	. P/4	
Florcharis me crestading	15	3 %	No	_ ObL	Hydrophytic Vegetati	(= B/A =	
Clauchary actuaris	-	5%	Y-es		Dominance Test is		
Lastheria Blabissina	-	5090	No.		Prevalence Index		
THE RESIDENCE OF THE PARTY OF T	31 [4]			s OPF		ptations¹ (Provide s	upporting
		- 11				s or on a separate s	
	Total Cov	er: 90%			Problematic Hydro	phytic Vegetation¹ (Explain)
oody Vine Stratum	Fig. 11.	-··					
VIII MANUAL II	7		154		¹ Indicators of hydric so	il and wetland hydro	logy must
		8 15			be present.		
	Total Cove	er:			Hydrophytic Vegetation		
Bare Ground in Herb Stratum	Cove	er of Biotic Cn	ıst		Present? Ye	s_ <u>V</u> No	_ =
emarks:	,	H 154		111111111111111111111111111111111111111	L	HI V	

Depth	Matrix		Pod	ment the i				
(inches)	Color (moist)	%	Color (moist)	ox Features %	Type ¹	Loc²	Texture	Remarks
5-1211	104R 3/2	95%	54R 4/6	Sí.	(<u>A</u>	TOXICIO	1 cc alm
				•			V.	Deally Energy
	7							
	ncentration, D=Dep			²Location:	PL=Pore	Lining, R	C=Root Channe	
dric Soil I	dicators: (Applic		LRRs, unless othe	rwise note	PL≂Pore d.)	Lining, R	Indicators fo	or Problematic Hydric Soils ³ :
dric Soil I	idicators: (Applic A1)		LRRs, unless othe	rwise note ox (S5)	PL≂Pore d.)	Lining, R	Indicators fo	or Problematic Hydric Soils ³ : uck (A9) (LRR C)
dric Soil I Histosol Histic Ep	ndicators: (Applic A1) pedon (A2)		LRRs, unless othe Sandy Red Stripped Ma	rwise note ox (S5) atrix (S6)	d.)	Lining, R	Indicators for the indicators fo	or Problematic Hydric Soils³: uck (A9) (LRR C) uck (A10) (LRR B)
dric Soil I Histosol (Histic Ep Black His	edicators: (Applic A1) pedon (A2) tic (A3)		LRRs, unless othe Sandy Red Stripped Ma Loamy Muc	rwise note ox (S5) atrix (S6) ky Mineral	d.) (F1)	Lining, R	Indicators for the second seco	or Problematic Hydric Soils ³ uck (A9) (LRR C) uck (A10) (LRR B) d Vertic (F18)
dric Soil II Histosol (Histic Ep Black His Hydroger	idicators: (Applic A1) pedon (A2) tic (A3) Sulfide (A4)	able to all I	LRRs, unless othe Sandy Red Stripped Ma Loamy Muc Loamy Gley	rwise note ox (S5) atrix (S6) ky Mineral yed Matrix (d.) (F1)	Lining, R	Indicators for the second seco	or Problematic Hydric Soils ³ : uck (A9) (LRR C) uck (A10) (LRR B) d Vertic (F18) ent Material (TF2)
dric Soil II Histosol (Histic Ep Black His Hydroger Stratified	idicators: (Applic A1) pedon (A2) tic (A3) Sulfide (A4) Layers (A5) (LRR C	able to all I	LRRs, unless othe Sandy Red Stripped Ma Loamy Muc Loamy Gley Depleted M	rwise note ox (S5) atrix (S6) ky Mineral yed Matrix (atrix (F3)	(F1) (F2)	e Lining, R	Indicators for the second seco	or Problematic Hydric Soils ³ uck (A9) (LRR C) uck (A10) (LRR B) d Vertic (F18)
dric Soil II Histosol (Histic Ep Black His Hydroger Stratified 1 cm Muc	idicators: (Applic A1) pedon (A2) tic (A3) Sulfide (A4) Layers (A5) (LRR 0 k (A9) (LRR 0)	able to all I	LRRs, unless othe Sandy Red Stripped Ma Loamy Muc Loamy Gley Depleted M	rwise note ox (S5) atrix (S6) by Mineral yed Matrix (atrix (F3) c Surface (F	(F1) (F2) (F6)	Elining, R	Indicators for the second seco	or Problematic Hydric Soils ³ : uck (A9) (LRR C) uck (A10) (LRR B) d Vertic (F18) ent Material (TF2)
rdric Soil II Histosol Histic Ep Black His Hydroger Stratified 1 cm Muc	idicators: (Applic A1) pedon (A2) tic (A3) Sulfide (A4) Layers (A5) (LRR 0 k (A9) (LRR D) Below Dark Surface	able to all I	LRRs, unless othe Sandy Red Stripped Ma Loamy Muc Loamy Gley Depleted M Redox Dark Depleted Dark	rwise note ox (S5) atrix (S6) ky Mineral yed Matrix (atrix (F3) c Surface (F ark Surface	(F1) (F2) (F6) (F7)	Lining, R	Indicators for the second seco	or Problematic Hydric Soils ³ : uck (A9) (LRR C) uck (A10) (LRR B) d Vertic (F18) ent Material (TF2)
rdric Soil II Histosol (Histic Ep Histic Ep Black His Hydroger Stratified 1 cm Muc Depleted Thick Dai	idicators: (Applic A1) pedon (A2) tic (A3) Sulfide (A4) Layers (A5) (LRR 0 k (A9) (LRR D) Below Dark Surface k Surface (A12)	able to all I	LRRs, unless othe Sandy Red Stripped Ma Loamy Muc Loamy Gley Depleted M Redox Dark Depleted Dark Redox Depleted Dark	rwise note ox (S5) atrix (S6) cky Mineral yed Matrix (atrix (F3) c Surface (F ark Surface ressions (F6	(F1) (F2) (F6) (F7)	Lining, R	Indicators for 1 cm Mu 2 cm Mu Reduced Red Par Other (E	or Problematic Hydric Soils ³ : uck (A9) (LRR C) uck (A10) (LRR B) d Vertic (F18) ent Material (TF2) explain in Remarks)
rdric Soil II Histosol (Histic Ep Black His Hydroger Stratified 1 cm Muc Depleted Thick Dai	idicators: (Applic A1) pedon (A2) tic (A3) Sulfide (A4) Layers (A5) (LRR 0 k (A9) (LRR D) Below Dark Surface	able to all I	LRRs, unless othe Sandy Red Stripped Ma Loamy Muc Loamy Gley Depleted M Redox Dark Depleted Dark	rwise note ox (S5) atrix (S6) cky Mineral yed Matrix (atrix (F3) c Surface (F ark Surface ressions (F6	(F1) (F2) (F6) (F7)	Lining, R	Indicators for 1 cm Mu 2 cm Mu Reduced Red Par Other (E	or Problematic Hydric Soils ³ : ack (A9) (LRR C) ack (A10) (LRR B) d Vertic (F18) ent Material (TF2) explain in Remarks)
ydric Soil II Histosol (Histic Ep Black His Hydroger Stratified 1 cm Muc Depleted Thick Dar Sandy Mic	Idicators: (Applic A1) pedon (A2) tic (A3) Sulfide (A4) Layers (A5) (LRR 0 k (A9) (LRR D) Below Dark Surface k Surface (A12) cky Mineral (S1)	able to all I	LRRs, unless othe Sandy Red Stripped Ma Loamy Muc Loamy Gley Depleted M Redox Dark Depleted Dark Redox Depleted Dark	rwise note ox (S5) atrix (S6) cky Mineral yed Matrix (atrix (F3) c Surface (F ark Surface ressions (F6	(F1) (F2) (F6) (F7)	E Lining, R	Indicators for 1 cm Mu 2 cm Mu Reduced Red Par Other (E	or Problematic Hydric Soils ³ : uck (A9) (LRR C) uck (A10) (LRR B) d Vertic (F18) ent Material (TF2) explain in Remarks)
ydric Soil II Histosol (Histic Ep Black His Hydroger Stratified 1 cm Muc Depleted Thick Dat Sandy Mic	Idicators: (Applic A1) pedon (A2) tic (A3) Sulfide (A4) Layers (A5) (LRR 0 k (A9) (LRR D) Below Dark Surface k Surface (A12) cky Mineral (S1) eyed Matrix (S4)	able to all I	LRRs, unless othe Sandy Red Stripped Ma Loamy Muc Loamy Gley Depleted M Redox Dark Depleted Dark Redox Depleted Dark	rwise note ox (S5) atrix (S6) cky Mineral yed Matrix (atrix (F3) c Surface (F ark Surface ressions (F6	(F1) (F2) (F6) (F7)	E Lining, R	Indicators for 1 cm Mu 2 cm Mu Reduced Red Par Other (E	or Problematic Hydric Soils ³ : ack (A9) (LRR C) ack (A10) (LRR B) d Vertic (F18) ent Material (TF2) explain in Remarks)

HYDROLOGY

Wetland Hydrology Indic	itors:	7	Secondary Indicators (2 or more required)
Primary Indicators (any one	indicator is suffici	ent)	Water Marks (B1) (Riverine)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Noi Sediment Deposits (B3) Drift Deposits (B3) (Noi Surface Soll Cracks (B ✓ Inundation Visible on A Water-Stained Leaves	nriverine) () (Nonriverine) nriverine) 6) erial Imagery (B7)	Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed	Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) ring Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Water Table Present?	Yes No	Depth (inches):	
Saturation Present? (includes capillary fringe)	Yes No	Depth (inches):	Wetland Hydrology Present? Yes No
	ream gauge, monit	toring well, aerial photos, previous inspec	tions), if available:
Remarks:	Y_ ==1		

Project/Site: North County Coxid	10	City/Cour	nty:5ta	anislaus	Sampling Date:	3/12/201
Applicant/Owner: Stanislaus County						
Investigator(s): MIKETrue HOOD Dayna						
Landform (hillslope, terrace, etc.):						
Subregion (LRR):						
Soil Map Unit Name:						
Are climatic / hydrologic conditions on the site typical fi			_			
Are Vegetation, Soil, or Hydrology				"Normal Circumstances		/ No
Are Vegetation, Soil, or Hydrology				eeded, explain any answ		110
SUMMARY OF FINDINGS – Attach site m						atures, etc
Hydrophytic Vegetation Present? Yes	No 🗸		r ihräus			1 2 2
	No 🗸		the Sample		N	
	No 🗸	W	thin a Wetla	na? Yes	No V	
Remarks:			, il , ilisətt	rania l		
		r	land da	ta point		
		e CH N				
VEGETATION						- marki
Tree Stratum (Use scientific names.)	Absolute % Cover		nt Indicator ? Status	Dominance Test wor		12 42
1				Number of Dominant : That Are OBL, FACW) (A)
2.						(^)
3.				Total Number of Domi Species Across All Sta		(B)
4.						<u> </u>
Total C	over:			Percent of Dominant S That Are OBL, FACW	or FAC:	<u>10</u> (A/B)
Sapling/Shrub Stratum						
1.				Prevalence Index wo Total % Cover of:		. h
2				OBL species		
4.				FACW species		
5				FAC species		
	over:			FACU species		
Herb Stratum				UPL species		_
1. Holocarpha Pizata	<u> </u>	Yes	UPL	Column Totals:	(A)	(B)
2. Evodium betrys	<u> </u>	Let	UPL	Description on India	- D/A -	
3. Branes diandres	2010	Yes	UPL	Prevalence index Hydrophytic Vegetati		
4			-	Dominance Test is		
5.				Prevalence Index		
6					aptations ¹ (Provide s	Supporting
8. 191111				data in Remark	s or on a separate	sheet)
	over: (cos)		a E III	Problematic Hydro	ophytic Vegetation ¹	(Explain)
Woody Vine Stratum	100	1		-926		
1. <u>In the second of the secon</u>		1 21		¹ Indicators of hydric so be present.	il and wetland hydro	ology must
2.	naidl =				100	E I
Total Co	over:			Hydrophytic Vegetation		
% Bare Ground in Herb Stratum % Co	over of Biotic Cr	ust		Present? Ye	es No\	_
Remarks:	**		unni	= 01	IUI	
7423 70 807 80 7						

Profile Description	: (Describe	to the dept	h needed to do	cument the i	ndicator	or confirm	n the absence o	f Indicators)
Depth	Matrix			dox Features		0. 00	absence c	i muicators.
	or (moist)	%	Color (moist)	<u> %</u>	Type ¹	Loc ²	Texture	Remarks
0-9" 7.5	SYR3M	90°P	STR YG	1010	(M		South locan
							1 1	
								
	A. III (1900)					_		
Type: C=Concentra					PL≈Por	e Lining, F	C=Root Channe	
Hydric Soil Indicato	rs: (Applica	Die to all L			a.)			r Problematic Hydric Soils ³ :
Histosol (A1) Histic Epipedon ((A2)		Sandy Re					ck (A9) (LRR C)
Black Histic (A3)				Matrix (S6) ucky Mineral	(F1)			ck (A10) (LRR B)
Hydrogen Sulfide				leyed Matrix (Vertic (F18) ent Material (TF2)
Stratified Layers	· ·)		Matrix (F3)	-, .			(plain in Remarks)
1 cm Muck (A9) ((LRR D)		Redox Da	ark Surface (F	6)			, , , , , , , , , , , , , , , , , , ,
Depleted Below I		(A11)	Depleted	Dark Surface	(F7)			
Thick Dark Surfa				pressions (F	3)		- 010	
Sandy Mucky Mir			Vemal Po	ols (F9)				hydrophytic vegetation and
Sandy Gleyed Ma Restrictive Layer (if							wetland hy	drology must be present.
5420								
Туре:			_					
Double (inches)								
Depth (inches):		(8)	_				Hydric Soil Pr	esent? Yes No
Depth (inches): Remarks:							Hydric Soil Pr	esent? Yes No
							Hydric Soil Pr	esent? Yes No
			_				Hydric Soil Pr	esent? Yes No
							Hydric Soil Pr	esent? Yes No
Remarks:							Hydric Soll Pr	esent? Yes No
Remarks: YDROLOGY								2082 = -
Remarks: YDROLOGY Vetland Hydrology I	Indicators:	or is sufficie	ent)				Seconda	ry Indicators (2 or more required
YDROLOGY Vetland Hydrology I	indicators:	or is sufficie		et (R11)			Seconda Wate	ry Indicators (2 or more required er Marks (B1) (Riverine)
YDROLOGY Vetland Hydrology Internative Indicators (an Surface Water (A	indicators: ny one indicato	or is sufficie	Salt Crus	• •			Seconda Wate Sedi	ry Indicators (2 or more required er Marks (B1) (Riverine) ment Deposits (B2) (Riverine)
POROLOGY Vetland Hydrology Inimary Indicators (an Surface Water (A' High Water Table	indicators: ny one indicato	pr is sufficie	Salt Crus	ust (B12)	(B13)		Seconda Wate Sedi Drift	ry Indicators (2 or more required er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine)
YDROLOGY Vetland Hydrology Interpretation (A) Surface Water (A) High Water Table Saturation (A3)	indicators: ny one indicato 1) (A2)		Salt Crus Biotic Cru Aquatic II	ust (B12) nvertebrates	100		Seconda Wate Sedi Drift Drain	ry Indicators (2 or more required er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10)
YDROLOGY Vetland Hydrology Interpretation (A) Surface Water (A) High Water Table Saturation (A3) Water Marks (B1)	Indicators: by one indicate 1) (A2) (Nonriverine	e)	Salt Crus Biotic Cru Aquatic II Hydroger	ust (B12) nvertebrates n Sulfide Odo	r (C1)	iving Root	Seconda Wate Sedi Drift Drait Dry-	ry Indicators (2 or more required er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2)
YDROLOGY Vetland Hydrology Interpretation (A) Surface Water (A) High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit	indicators: ay one indicato 1) (A2) (Nonriverine is (B2) (Nonri	e) iverine)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized	ust (B12) nvertebrates n Sulfide Odo Rhizosphere	r (C1) s along L		Seconda Wate Sedi Drift Draii Dry- s (C3) Thin	ry Indicators (2 or more required er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7)
YDROLOGY Vetland Hydrology Interpretation (A: High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3)	indicators: ay one indicato 1) (A2) ((Nonriverine is (B2) (Nonri	e) iverine)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence	ust (B12) nvertebrates n Sulfide Odo Rhizosphere of Reduced	r (C1) s along L Iron (C4)		Seconda 	ry Indicators (2 or more required or Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8)
YDROLOGY Vetland Hydrology Internative Indicators (an Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) Surface Soil Crack	indicators: ay one indicato 1) (A2) (Nonriverine is (B2) (Nonri) (Nonriverine ks (B6)	e) iverine) e)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent In	ust (B12) nvertebrates n Sulfide Odo Rhizosphere e of Reduced on Reduction	r (C1) s along L lron (C4) in Plowe		Seconda Wate Sedi Drift Drain Dry- s (C3) Thin Cray 6) Satu	ry Indicators (2 or more required or Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) ration Visible on Aerial Imagery (
YDROLOGY Vetland Hydrology Interpretation (An and a statement of the state	indicators: by one indicate 1) (A2) (Nonriverine is (B2) (Nonri) (Nonriverin ks (B6) on Aerial Ima	e) iverine) e)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent In	ust (B12) nvertebrates n Sulfide Odo Rhizosphere of Reduced	r (C1) s along L lron (C4) in Plowe		Seconda Wate Sedi Drift Drain Dry- s (C3) Thin Cray 6) Satu Shall	ry Indicators (2 or more required er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) ration Visible on Aerial Imagery (ow Aquitard (D3)
YDROLOGY Vetland Hydrology Inmary Indicators (an Surface Water (A' High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift Deposits (B3) Surface Soll Crack Inundation Visible Water-Stained Lea	indicators: by one indicate 1) (A2) (Nonriverine is (B2) (Nonri) (Nonriverin ks (B6) on Aerial Ima	e) iverine) e)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent In	ust (B12) nvertebrates n Sulfide Odo Rhizosphere e of Reduced on Reduction	r (C1) s along L lron (C4) in Plowe		Seconda Wate Sedi Drift Drain Dry- s (C3) Thin Cray 6) Satu Shall	ry Indicators (2 or more required or Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) ration Visible on Aerial Imagery (
YDROLOGY Vetland Hydrology In Surface Water (A: High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Surface Soil Crack Inundation Visible Water-Stained Leafeld Observations:	indicators: by one indicate 1) (A2) (Nonriverine is (B2) (Nonri) (Nonriverin ks (B6) on Aerial Ima	e) iverine) e) agery (B7)	Salt Crus Biotic Cru Aquatic In Hydroger Oxidized Presence Recent In Other (Ex	ust (B12) nvertebrates n Sulfide Odo Rhizosphere of Reduced on Reduction xplain in Rem	r (C1) s along L lron (C4) in Plowe		Seconda Wate Sedi Drift Drain Dry- s (C3) Thin Cray 6) Satu Shall	ry Indicators (2 or more required er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) ration Visible on Aerial Imagery (ow Aquitard (D3)
YDROLOGY Vetland Hydrology Internative Indicators (an Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Surface Soil Crack Inundation Visible Water-Stained Lealeld Observations:	indicators: ay one indicato 1) (A2) (Nonriverine is (B2) (Nonri) (Nonriverin ks (B6) on Aerial Ima aves (B9)	e) iverine) ie) agery (B7)	Salt Crus Biotic Cru Aquatic In Hydroger Oxidized Presence Recent In Other (Ex	ust (B12) nvertebrates n Sulfide Odo Rhizosphere of Reduced on Reduction replain in Rem	r (C1) s along L lron (C4) in Plowe		Seconda Wate Sedi Drift Drain Dry- s (C3) Thin Cray 6) Satu Shall	ry Indicators (2 or more required or Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) ration Visible on Aerial Imagery (ow Aquitard (D3)
YDROLOGY Vetland Hydrology Interpretation (A) Surface Water (A) High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift Deposits (B3) Surface Soil Crack Inundation Visible Water-Stained Lea	indicators: ay one indicato 1) (A2) (Nonriverine is (B2) (Nonri) (Nonriverin ks (B6) on Aerial Ima aves (B9) t? Yes Yes	e) iverine) ie) agery (B7)	Salt Crus Biotic Cru Aquatic In Hydroger Oxidized Presence Recent In Other (Ex	ust (B12) nvertebrates n Sulfide Odo Rhizosphere of Reduced on Reduction replain in Rem nches):	r (C1) s along L lron (C4) in Plowe arks)	ed Soils (C	Seconda Wate Sedi Drift Drain Dry- s (C3) Thin Cray 6) Satu Shall	ry Indicators (2 or more required or Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) ration Visible on Aerial Imagery (ow Aquitard (D3) Neutral Test (D5)

Remarks:

Project/Site: North County Carido		City/C	County: 5to	anislaus Sampling Date: 3/13/14
Applicant/Owner: Stanislaus County	0 111	-11		State: CA Sampling Point: 11
Investigator(s): MIKE True HI ON diDayna W	nchell	Section	on, Township, R	ange:
		Loca	l relief (concave	, convex, none): Slope (%):
Subregion (LRR):	Lat:		-V - I - I - I - I - I - I - I - I - I -	Long: Datum:
Soil Map Unit Name:				NWI classification:
Are climatic / hydrologic conditions on the site typical for the Are Vegetation, Soil, or Hydrology Are Vegetation, Soil, or Hydrology BUMMARY OF FINDINGS - Attach site map	significantly naturally pro	distur oblema	bed? Are atic? (If n	"Normal Circumstances" present? Yes X No
	No No No		Is the Sample within a Wetla	WATER CO. II S. I I
/EGETATION	= . 1		Ti ii	
Tree Stratum (Use scientific names.) 1.		Spec		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant Species Across All Strata: 3 (B)
4Total Cove Sapling/Shrub Stratum	or:			Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B
· · · · · · · · · · · · · · · · · · ·				Prevalence Index worksheet:
2.				
				FACW species x 2 =
	J =11			FAC species x 3 =
	r:			FACU species x 4 =
Plagiobomyus SR.	20	ч	FACW	UPL species x 5 =
unknow annual grass	20	2	Fac	Column Totals: (A) (B
Erodium botrys	5	n	UPL	Prevalence Index = B/A =
Deschampsiadanthonioides	10	n	FACW	Hydrophytic Vegetation Indicators:
Lastheniaglabemma	50	4	190	Dominance Test is >50%
	- —			Prevalence Index is ≤3.0 ¹
		- 11		Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
Total Cover	105	7.	2.0	Problematic Hydrophytic Vegetation ¹ (Explain)
/oody Vine Stratum	120	E 4		¹ Indicators of hydric soil and wetland hydrology must be present.
	1111= 1		31	
Total Cover 6 Bare Ground in Herb Stratum % Cover	of Biotic Cr	ust		Hydrophytic Vegetation Present? Yes No
Remarks:			# = JH	
theavily stated resetation	d faculto	વર્ષાન	since it i	only occurs in the depession.

	scription: (Describe	to the dep			r or confirm	n the absence	of indicators.)
Depth	Matrix	0/	Red	ox Features	. 2		
(inches)	Color (moist)	%	Color (moist)		Loc ² _	Texture	Remarks
2-12"	10 YR 41	80	2.5 YR 25/4	<u> 20 C</u>	M		Sandyloam
					N: 047 (52-4)		
	-						
				<u> </u>			المنتصر والمارا إصارك كالعمر المستك
3							AND THE RESERVE OF THE PARTY OF
	Concentration, D=Dep			² Location: PL=Po	re Lining, R	C=Root Chan	nel, M=Matrix.
lydric Soil	Indicators: (Applic	able to all	LRRs, unless othe	rwise noted.)		Indicators	for Problematic Hydric Soils ³ :
Histoso	ol (A1)		Sandy Red	ox (S5)		1 cm N	fluck (A9) (LRR C)
Histic E	pipedon (A2)		Stripped Ma				fuck (A10) (LRR B)
_ Black H	listic (A3)		Loamy Mud	cky Mineral (F1)			ed Vertic (F18)
	en Sulfide (A4)		Loamy Gley	yed Matrix (F2)			arent Material (TF2)
	ed Layers (A5) (LRR (;)	Depleted M			Other	(Explain in Remarks)
_	uck (A9) (LRR D)			k Surface (F6)			
	ed Below Dark Surface	e (A11)		ark Surface (F7)			
_	ark Surface (A12)			ressions (F8)			
	Mucky Mineral (S1)		Vernal Pool	ls (F9)			of hydrophytic vegetation and
	Gleyed Matrix (S4)				IX	wetland	hydrology must be present.
estrictive	Layer (if present):					i	
Туре:							
Depth (in	oches):			18.		Hydric Soil	Present? Yes <u>X</u> No
Depth (in						Hydric Soil	Present? Yes <u></u> No
Depth (in				-		Hydric Soil	Present? Yes <u></u> No
Depth (in						1 III II	Present? Yes No
Depth (in lemarks:	GY	tor is suffic	ient)	4		Secon	
Depth (in lemarks:	GY drology Indicators: cators (any one indica	tor is suffic		(B11)		Secon. W	dary Indicators (2 or more required) ater Marks (B1) (Riverine)
Depth (in lemarks: /DROLO /etland Hyrimary India	GY drology Indicators: cators (any one indica Water (A1)	tor is suffic	Salt Crust			<u>Secon</u> W Se	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine)
Depth (in temarks: /DROLO /etland Hy rimary India _ Surface _ High Wa	drology Indicators: cators (any one indica Water (A1) ater Table (A2)	tor is suffic	Salt Crust	t (B12)		<u>Secon</u> W Se Dr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine)
Depth (in demarks: DROLO /etland Hy rimary India Surface High Wa Saturatio	drology Indicators: cators (any one indica Water (A1) ater Table (A2) on (A3)		Salt Crust (Biotic Crus Aquatic Inv	t (B12) vertebrates (B13)		W Se Dr Dr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Pattems (B10)
Depth (in Remarks: /DROLO /etland Hy rimary India Surface High Wa Saturatio Water M	drology Indicators: cators (any one indica Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriverir	10)	Salt Crust (Biotic Crus (Aquatic Inv (Hydrogen (t (B12) vertebrates (B13) Sulfide Odor (C1)	Living Root	Secon W Se Dr Dr Dr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) iff Deposits (B3) (Riverine) ainage Pattems (B10) y-Season Water Table (C2)
Depth (in Remarks: /DROLO /etland Hy rimary India Surface High Wa Saturation Water M Sedimer	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriver) at Deposits (B2) (Non	ne) riverine)	Salt Crust (Biotic Crust (Aquatic Inv (Hydrogen S (Oxidized R	it (B12) vertebrates (B13) Sulfide Odor (C1) thizospheres along		Secon W Se Dr Dr Cr S (C3)	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) iff Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7)
Depth (in Remarks: YDROLO Yetland Hy rimary India Surface High Wa Saturatia Water M Sedimer Drift Dep	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrivering the Deposits (B2) (Nonrivering the Deposits (B2) (Nonrivering the Deposits (B3)	ne) riverine)	Salt Crust of Biotic Crust of Aquatic Inv Hydrogen S Oxidized R Presence of	it (B12) vertebrates (B13) Sulfide Odor (C1) thizospheres along of Reduced Iron (C	4)	Secon 	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) iff Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8)
Depth (in Remarks: /DROLO /etland Hy rimary India Surface High Wa Saturatia Water Magnetic Sedimer Drift Deptage Surface	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrivering the Deposits (B2) (Noncivering the Deposits (B3) (Nonrivering Soil Cracks (B6)	ne) riverine) ne)	Salt Crust of Biotic Crust of Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror	at (B12) vertebrates (B13) Sulfide Odor (C1) thizospheres along of Reduced Iron (C- n Reduction in Plov	4)	Secon. W Se Dr Dr Dr Dr Cr s (C3) Th Cr 6) Sa	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Pattems (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) aturation Visible on Aerial Imagery (C
Depth (in Remarks: //DROLO /etland Hyrimary India _ Surface _ High Wa _ Saturatia _ Water M _ Sedimer _ Drift Dep _ Surface _ Inundation	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrivering to Deposits (B2) (Noncosits (B3) (Nonrivering Soil Cracks (B6)	ne) riverine) ne)	Salt Crust of Biotic Crust of Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror	it (B12) vertebrates (B13) Sulfide Odor (C1) thizospheres along of Reduced Iron (C	4)	Secon. W Se Dr Dr Dr Dr Cr s (C3) Th Cr 6) Sa Sh	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) iff Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) aturation Visible on Aerial Imagery (Callow Aquitard (D3)
Depth (in Remarks: POROLO Petland Hy rimary India Surface High Wa Saturatia Water M Sedimer Drift Dep Surface Inundatia Water-Si	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrivering to Deposits (B2) (Noncosits (B3) (Nonrivering Soil Cracks (B6) on Visible on Aerial Intained Leaves (B9)	ne) riverine) ne)	Salt Crust of Biotic Crust of Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror	at (B12) vertebrates (B13) Sulfide Odor (C1) thizospheres along of Reduced Iron (C- n Reduction in Plov	4)	Secon. W Se Dr Dr Dr Dr Cr s (C3) Th Cr 6) Sa Sh	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Pattems (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) aturation Visible on Aerial Imagery (C
Popth (in Remarks: YDROLO Vetland Hy Irimary India Surface High Wa Saturatia Water M Sedimer Drift Dep Surface Inundatia Water-Sield Observ	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrivering to Deposits (B2) (Nonrivering to Deposits (B3) (Nonrivering Soil Cracks (B6) on Visible on Aerial Instained Leaves (B9) vations:	ne) riverine) ne) nagery (B7)	Salt Crust Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror Other (Exp	at (B12) Vertebrates (B13) Sulfide Odor (C1) Chizospheres along of Reduced Iron (Con Reduction in Ploy lain in Remarks)	4)	Secon. W Se Dr Dr Dr Dr Cr s (C3) Th Cr 6) Sa Sh	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) iff Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) aturation Visible on Aerial Imagery (Callow Aquitard (D3)
Depth (in Remarks: YDROLO Vetland Hy Primary India Surface High Wa Saturatia Water M Sedimer Drift Dep Surface Inundatia Water-Si eld Observant	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrivering to Deposits (B2) (Nonrivering to Deposits (B3) (Nonrivering to Deposits (B4) (Nonrivering to Deposits (B4) (Nonrivering to Deposits (B4) (N	ne) riverine) ne) nagery (B7) s N	Salt Crust Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror Other (Exp	et (B12) vertebrates (B13) Sulfide Odor (C1) chizospheres along of Reduced Iron (C- n Reduction in Plov lain in Remarks)	4)	Secon. W Se Dr Dr Dr Dr Cr s (C3) Th Cr 6) Sa Sh	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) iff Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) aturation Visible on Aerial Imagery (Callow Aquitard (D3)
Depth (in Remarks: YDROLO Vetland Hy Primary India Surface High Wa Saturatia Water M Sedimer Drift Dep Surface Inundatia Water-Si ield Observant	drology Indicators: cators (any one indicators) Water (A1) ater Table (A2) on (A3) larks (B1) (Nonrivering the Deposits (B2) (Nonrivering Soil Cracks (B6) on Visible on Aerial Implementations: ar Present? Yes Present? Yes	ne) riverine) ne) nagery (B7) s N	Salt Crust Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror Other (Exp	et (B12) vertebrates (B13) Sulfide Odor (C1) chizospheres along of Reduced Iron (C- n Reduction in Plov lain in Remarks) thes):	4)	Secon. W Se Dr Dr Dr Dr Cr s (C3) Th Cr 6) Sa Sh	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) iff Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) aturation Visible on Aerial Imagery (Callow Aquitard (D3)
Depth (in Remarks: YDROLO Yetland Hy rimary India Surface High Wa Saturatia Water M Sedimer Drift Dep Surface Inundatia Water-Si eld Observation Pr	drology Indicators: cators (any one indicators) water (A1) ater Table (A2) on (A3) larks (B1) (Nonrivering the Deposits (B2) (Nonrivering Soil Cracks (B6) on Visible on Aerial Implementations: ar Present? Present? Yes	ne) riverine) ne) nagery (B7) s N	Salt Crust Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror Other (Exp	et (B12) vertebrates (B13) Sulfide Odor (C1) chizospheres along of Reduced Iron (C- n Reduction in Plov lain in Remarks) thes):	4) ved Soils (C	Secon. W Se Dr Dr Dr Dr Cr s (C3) Th Cr 6) Sa Sh	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ainage Pattems (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) aturation Visible on Aerial Imagery (C allow Aquitard (D3) aC-Neutral Test (D5)
Depth (in Remarks: POROLO Petland Hy rimary India Surface High Wa Saturatia Water M Sedimer Drift Dep Surface Inundatia Water-Si eld Observation Proceeditions of the particulation of the pattern of t	drology Indicators: cators (any one indicators) water (A1) ater Table (A2) on (A3) larks (B1) (Nonriveriant Deposits (B2) (Nonriveriant Deposits (B6) on Visible on Aerial Intained Leaves (B9) wations: ar Present? Present? Yesesent? Yesesent? Yesesent? Yesesent? Yesesent?	ne) ne) nagery (B7) s N	Salt Crust Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror Other (Expl	tit (B12) vertebrates (B13) Sulfide Odor (C1) thizospheres along of Reduced Iron (C- n Reduction in Plov lain in Remarks) thes):	t) ved Soils (C	Secon W Se Se Se Se Se Se Se	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ainage Pattems (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) aturation Visible on Aerial Imagery (C allow Aquitard (D3) aC-Neutral Test (D5)
Depth (in Remarks: //DROLO /etland Hy rimary India Surface High Wa Saturatia Water M Sedimer Drift Dep Surface Inundatia Water-Si eld Observation Practicudes cap	drology Indicators: cators (any one indicators) water (A1) ater Table (A2) on (A3) larks (B1) (Nonrivering the Deposits (B2) (Nonrivering Soil Cracks (B6) on Visible on Aerial Implementations: ar Present? Present? Yes	ne) ne) nagery (B7) s N	Salt Crust Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror Other (Expl	tit (B12) vertebrates (B13) Sulfide Odor (C1) thizospheres along of Reduced Iron (C- n Reduction in Plov lain in Remarks) thes):	t) ved Soils (C	Secon W Se Se Se Se Se Se Se	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ainage Pattems (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) aturation Visible on Aerial Imagery (Callow Aquitard (D3) aC-Neutral Test (D5)
Depth (in Remarks: //DROLO /etland Hy rimary India Surface High Wa Saturatia Water M Sedimer Drift Dep Surface Inundatia Water-Si eld Observation Practicudes cap	drology Indicators: cators (any one indicators) water (A1) ater Table (A2) on (A3) larks (B1) (Nonriveriant Deposits (B2) (Nonriveriant Deposits (B6) on Visible on Aerial Intained Leaves (B9) wations: ar Present? Present? Yesesent? Yesesent? Yesesent? Yesesent? Yesesent?	ne) ne) nagery (B7) s N	Salt Crust Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror Other (Expl	tit (B12) vertebrates (B13) Sulfide Odor (C1) thizospheres along of Reduced Iron (C- n Reduction in Plov lain in Remarks) thes):	t) ved Soils (C	Secon W Se Se Se Se Se Se Se	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ainage Pattems (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) aturation Visible on Aerial Imagery (Callow Aquitard (D3) aC-Neutral Test (D5)

Project/Site: Novh County Con	ridor	City/County:	anislaus	_ Sampling Date: 3/13/19
Applicant/Owner: Stanislaus County			State: CA	Sampling Point:
nvestigator(s): MIKE True blood Da	4na Wincher	Section, Township, F	Range:	
andform (hillslope, terrace, etc.):	The state of the s			
Subregion (LRR):				
Soil Map Unit Name:				
re climatic / hydrologic conditions on the site typic		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
re Vegetation, Soil, or Hydrology		- Int. A		present? Yes X No
re Vegetation, Soil, or Hydrology			needed, explain any answ	
SUMMARY OF FINDINGS – Attach sit	H U	·		
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	No X	Is the Sample within a Wetla	d Area	ling in thin in the second
Domorko:	1 datapo-	. A_	9 7 8	
Opeano	anga po-	I VI		
EGETATION	1818 -	Tax Cave	91 - 18	9 B
Free Stratum (Use scientific names.)		Dominant Indicator Species? Status	Dominance Test work Number of Dominant S	pecies (7)
- I BILLIO - I BILLIO			That Are OBL, FACW,	or FAC: (A)
Talono II — no 17 talono dina man			Total Number of Domin	
T E Want E sta		IIIIIII		
Tot	al Cover:		Percent of Dominant Sp That Are OBL, FACW,	
Sapling/Shrub Stratum			Prevalence Index wor	
				Multiply by:
-				x1 =
			B 1,000.00	x 2 =
e appointes ed			FAC species	x 3 =
Tota	al Cover:			x 4 =
Bromus dianans	26	M LA		x 5 =
Bromus hordeaceus	20	y Faco	Column Totals:	(A) (B)
Endium Sp.	40	5 UPI	Prevalence Index	= B/A =
Holocarpha virgata	10	n vpi	Hydrophytic Vegetation	n Indicators:
Leontodon taraxacoides	S	n UPL	Dominance Test is	>50%
Harrie de 1921 e com		- I Harden	Prevalence Index is	
				otations ¹ (Provide supporting
	-			or on a separate sheet) hytic Vegetation¹ (Explain)
Tota oody <u>Vine Stratum</u>	Cover: 75		i robiolitado i tydrop	myne vegetanen (Explain)
Y The second of			¹ Indicators of hydric soil	and wetland hydrology must
		ar imagna	be present.	The state of the s
	l Cover:		Hydrophytic	
6	Cover of Biotic Cr	iet	Vegetation	No. Y
	OOVER OF BIOUC CR	Jat	Present? Yes	No <u>X</u>
emarks:				

Depth (inches) Color (moist) % O-10" IO TR 3 3 100	Redox Features Color (moist) % Type¹	Loc² Texture SAY	Remarks
	COIDI (IIIDIST) 76 TYPE	The second secon	
			- 19 1 (mail 40), a a
			ndylpan
Type: C=Concentration, D=Depletion, RM Iydric Soil Indicators: (Applicable to all Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	Reduced Matrix.	ning, RC=Root Channel, M=Mat Indicators for Proble 1 cm Muck (A9) (I 2 cm Muck (A10) Reduced Vertic (F Red Parent Mater Other (Explain in I	matic Hydric Soils ³ : LRR C) (LRR B) :18) ial (TF2) Remarks)
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)	Vernal Pools (F9)		_
estrictive Layer (if present):		wetland hydrology	nust be present.
Type:			
Depth (inches):	10.19 ⁴ 1	Hydric Soil Present?	Yes No X
VDBOLOCV	m = a ^(v)		
YDROLOGY			
Vetland Hydrology Indicators:		Secondary Indica	tors (2 or more required)
rimary Indicators (any one indicator is suffic		Water Marks	(B1) (Riverine)
_ Surface Water (A1)	Salt Crust (B11)	Sediment De	oosits (B2) (Riverine)
_ High Water Table (A2)	Biotic Crust (B12)		(B3) (Riverine)
		Drainage Pat	terns (B10)
_ Saturation (A3)	Aquatic Invertebrates (B13)		
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Dry-Season V	Vater Table (C2)
Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin	Dry-Season V g Roots (C3) Thin Muck Su	Vater Table (C2) rface (C7)
Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4)	Dry-Season V g Roots (C3) Thin Muck Su Crayfish Burn	Vater Table (C2) rface (C7) ows (C8)
Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6)	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed S	Dry-Season V g Roots (C3) Thin Muck Su Crayfish Burn toils (C6) Saturation Vis	Vater Table (C2) rface (C7) ows (C8) sible on Aerial Imagery (C9
Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7)	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed S	Dry-Season V g Roots (C3) Thin Muck Su Crayfish Burn oils (C6) Saturation Vis Shallow Aquit	Vater Table (C2) rface (C7) ows (C8) sible on Aerial Imagery (C9 ard (D3)
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)	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed S	Dry-Season V g Roots (C3) Thin Muck Su Crayfish Burn toils (C6) Saturation Vis	Vater Table (C2) rface (C7) ows (C8) sible on Aerial Imagery (C9 ard (D3)
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)	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed S Other (Explain in Remarks)	Dry-Season V g Roots (C3) Thin Muck Su Crayfish Burn oils (C6) Saturation Vis Shallow Aquit	Vater Table (C2) rface (C7) ows (C8) sible on Aerial Imagery (C9 ard (D3)
Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Ield Observations: urface Water Present? Yes N	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed S) Other (Explain in Remarks)	Dry-Season V g Roots (C3) Thin Muck Su Crayfish Burn oils (C6) Saturation Vis Shallow Aquit	Vater Table (C2) rface (C7) ows (C8) sible on Aerial Imagery (C9 ard (D3)
Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) ield Observations: urface Water Present? Yes N	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed S) Other (Explain in Remarks) lo Depth (inches):	Dry-Season V g Roots (C3) Thin Muck Su Crayfish Burn oils (C6) Saturation Vis Shallow Aquit	Vater Table (C2) rface (C7) ows (C8) sible on Aerial Imagery (C9 ard (D3)
Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) ield Observations: urface Water Present? Ves Naturation Present? Yes Naturation Present? Yes Naturation Present?	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed S) Other (Explain in Remarks)	Dry-Season V g Roots (C3) Thin Muck Su Crayfish Burn oils (C6) Saturation Vis Shallow Aquit FAC-Neutral	Vater Table (C2) rface (C7) ows (C8) sible on Aerial Imagery (C9 ard (D3)

Project/Site: North County Ca	ridor ci	ty/County: 5to	anislaus	Sampling Date: 3/13/14
Applicant/Owner: Stanislaus Count				
Investigator(s): MIKETYUZHIOOd Da	yhawinchell se	ection, Township, Ra	ange:	
Landform (hillslope, terrace, etc.):	1. T			
Subregion (LRR):				
Soil Map Unit Name:			NWI classifi	cation:
Are climatic / hydrologic conditions on the site ty	pical for this time of year?	Yes No_	(If no, explain in f	Remarks.)
Are Vegetation, Soil, or Hydrolog			"Normal Circumstances"	present? Yes No
Are Vegetation, Soil, or Hydrolog	y naturally proble		eeded, explain any answe	
SUMMARY OF FINDINGS - Attach s	site map showing s	ampling point I	ocations, transects	s, important features, etc
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes Remarks:		Is the Sampled within a Wetlan		No
VEGETATION				n i emis
Tree Stratum (Use scientific names.) 1.	% Cover S	ominant Indicator species? Status	Dominance Test work Number of Dominant S That Are OBL, FACW,	pecies
2	9-5-19-18		Total Number of Domin Species Across All Stra	
4	otal Cover:		Percent of Dominant Sp That Are OBL, FACW,	
1.215.1811.			Prevalence Index wor	ksheet:
2.		uri I	Total % Cover of:	Multiply by:
3				x 1 =
4.				x 2 =
5	Harris III			x3=
Herb Stratum	otal Cover:	201	(x 4 = x 5 =
1 Fypha latitolia	50 1	y Obl		(A) (B)
2 polgynum sp.	30_	Y FACW	w" and in "	
	10 - 1 - 1		(4)	= B/A =
4.			Hydrophytic Vegetation Dominance Test is	
5. (1000-2004) 1			Prevalence Index is	
			Morphological Ada	otations ¹ (Provide supporting or on a separate sheet)
3To Moody Vine Stratum	otal Cover: 80		Problematic Hydrop	phytic Vegetation ¹ (Explain)
1		N ^P P A P B	¹ Indicators of hydric soil be present.	and wetland hydrology must
	otal Cover: % Cover of Biotic Crust		Hydrophytic Vegetation Present? Yes	. No
Remarks:		8 41		

00		•
5 U	л	ᆫ

Sampling Point: 12

Depth Matrix	Redox Features		
(inches) Color (moist) %	Color (moist) % Type ¹ L	Loc ² Texture	Remarks
0-12" 10 YR2/1 100		Principles of	loamyciay
			3
			
· · · · · · · · · · · · · · · · · · ·			
Type: C=Concentration, D=Depletion, RM=Re	advend Matrix 2 continue Di Dan Li	-1 SO-D4-01	
ydric Soil Indicators: (Applicable to all LR			nnel, M=Matrix. s for Problematic Hydric Soils ³ :
_ Histosol (A1)	Sandy Redox (S5)		
Histic Epipedon (A2)	Stripped Matrix (S6)		Muck (A9) (LRR C) Muck (A10) (LRR B)
_ Black Histic (A3)	Loamy Mucky Mineral (F1)		ced Vertic (F18)
_ Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		Parent Material (TF2)
_ Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)		(Explain in Remarks)
_ 1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6)	•	
_ Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)		
_ Thick Dark Surface (A12)	Redox Depressions (F8)		
_ Sandy Mucky Mineral (S1)	Vernal Pools (F9)		s of hydrophytic vegetation and
_ Sandy Gleyed Matrix (S4) estrictive Layer (if present):		wetlan	d hydrology must be present.
Type:			
Depth (inches):	ox concentrations mpling. Disturbed	identif	ied the to
Depth (inches):	ox concentrations mpling. Disturbed	identif	ied due to
Depth (inches):	ox concentrations mpling. Disturbed	svil, stra yyriggist h	ied due to
Depth (inches):	mpling. Disturbed	svil, stro gyriggist hi	ied the to mg hygrology india
Depth (inches): emarks: No real No real DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is sufficient	mpling. Disturbed	svil, stro gyriggist h	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine)
Depth (inches): pmarks: No real heavy cattle tra DROLOGY ptland Hydrology Indicators: imary Indicators (any one indicator is sufficient	mpling. Disturbed	Secondary	ndary Indicators (2 or more required) Nater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Depth (inches): emarks: No real No real DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is sufficient Surface Water (A1)	m pling. Distributed strong st	Seco	ndary Indicators (2 or more required) Nater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine)
Depth (inches): emarks: No real PROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is sufficient Surface Water (A1) High Water Table (A2)	mpling. Disturbed strong at) Salt Crust (B11)	Seco	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Ordinage Patterns (B10)
Depth (inches): Demarks: No Ve of the any cattle that DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is sufficient Surface Water (A1) High Water Table (A2) Saturation (A3)	m plin g. Disturbed stren at) _ Salt Crust (B11) _ Biotic Crust (B12) _ Aquatic Invertebrates (B13)	Seco	ndary Indicators (2 or more required) Nater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine)
Depth (inches):emarks: NO VEO Ne avy cattle tva DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is sufficient Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	m plin g. D sturbed stren at) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Secondary for some secondary for the secondary f	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7)
Depth (inches): emarks: No Ve of the any cattle that the any cattle that the any cattle that the angle of the any cattle of the any cattle of the angle of th	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin	Secondary for some secondary for the secondary f	ndary Indicators (2 or more required) Nater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8)
Depth (inches): emarks: No Ve of the any cattle that the any cat	Salt Crust (B11) Salt Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4)	Secondary Second	Index Indicators (2 or more required) Nater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orange Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C
Depth (inches): emarks: No re of the ary cattle transport of the ary cattle transpor	Salt Crust (B11) Solic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed S	Secondary Second	Index Indicators (2 or more required) Nater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Originage Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Catallow Aquitard (D3)
Depth (inches): emarks: No Ve of the any cattle transport of the any cattle transpor	Salt Crust (B11) Solic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed S	Secondary Second	Index Indicators (2 or more required) Nater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orange Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C
Depth (inches): marks: No Ve o he any cattle tra DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is sufficient Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Ind Observations:	Salt Crust (B11) Salt Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed S	Secondary Second	Index Indicators (2 or more required) Nater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Originage Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Catallow Aquitard (D3)
Depth (inches): emarks: No Ve of Ne avy cattle tra DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is sufficient Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Ind Observations: Ifface Water Present? Yes	Salt Crust (B11) Solitic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed S Other (Explain in Remarks)	Secondary Second	Index Indicators (2 or more required) Nater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Originage Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Catallow Aquitard (D3)
Depth (inches): demarks: No Ve of the Aray caff le tra //DROLOGY //etland Hydrology Indicators: rimary Indicators (any one indicator is sufficient of the sufficient of th	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed S Other (Explain in Remarks) Depth (inches): Surface	Secondary Second	Index Indicators (2 or more required) Nater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orange Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Catalow Aquitard (D3) AC-Neutral Test (D5)
Depth (inches): emarks: No Ve of the any cattle transport of the any cattle transpor	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed S Other (Explain in Remarks) Depth (inches): Surface Depth (inches): Surface	Second Se	Index Indicators (2 or more required) Nater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orange Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Catalow Aquitard (D3) AC-Neutral Test (D5)
Depth (inches): emarks: No Ve of the any cattle transport of the any cattle transpor	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed S Other (Explain in Remarks) Depth (inches): Surface Depth (inches): Surface	Second Se	Index Indicators (2 or more required) Nater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orange Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Catalow Aquitard (D3) AC-Neutral Test (D5)
Depth (inches): emarks: No Ve of the any cattle transport of the any cattle transpor	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed S Other (Explain in Remarks) Depth (inches): Surface Depth (inches): Surface	Second Se	Index Indicators (2 or more required) Nater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orange Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Catalow Aquitard (D3) AC-Neutral Test (D5)
Depth (inches): demarks: CONCOCY Tetland Hydrology Indicators: rimary Indicators (any one indicator is sufficient Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Bid Observations: Inface Water Present? Area Water Present	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed S Other (Explain in Remarks) Depth (inches): Surface Depth (inches): Surface	Second Se	Index Indicators (2 or more required) Nater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orange Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Catalow Aquitard (D3) AC-Neutral Test (D5)
Depth (inches): Continue	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed S Other (Explain in Remarks) Depth (inches): Surface Depth (inches): Surface	Second Se	Index Indicators (2 or more required) Nater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orange Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Catalow Aquitard (D3) AC-Neutral Test (D5)

Project/Site: North County Corrido	~	City/Co	unty: 5to	anislaus	_ Sampling Date: 3	13/14
Applicant/Owner: Stanislaus County						
Investigator(s): MIKETYUZHI OD at Dayne	Winchel	Section	, Township, R	ange:	1000	2007
Landform (hillslope, terrace, etc.):						
Subregion (LRR):						
Soil Map Unit Name:						7841 777
Are climatic / hydrologic conditions on the site typical for			1	(If no, explain in		
Are Vegetation, Soil, or Hydrology				"Normal Circumstances"		No
Are Vegetation, Soil, or Hydrology				eeded, explain any answ		
SUMMARY OF FINDINGS – Attach site ma						ures, etc.
Hydrophytic Vegetation Present? Yes	No X		s the Sample	d Aron	and Earling	SE :
Hydric Soil Present? Yes			vithin a Wetla		No X	
Wetland Hydrology Present? Yes	No	17 12				
Remarks: Wlanapoint						
Planapoint						
		in		11 18 1		
VEGETATION						
	Absolute		ant Indicator	Dominance Test work	ksheet:	
Tree Stratum (Use scientific names.)			s? Status	Number of Dominant S		h
1				That Are OBL, FACW,	or PAC:	(A)
3.				Total Number of Domii Species Across All Stra		(B)
4.						(D)
Total Cov	/er:			Percent of Dominant S That Are OBL, FACW,	pecies or FAC:	(A/B)
Sapling/Shrub Stratum						
1				Prevalence Index wo		
2				Total % Cover of: OBL species		
4.				FACW species		
5.				FAC species		
	/er:		4 -	FACU species		
Herb Stratum	<u>_</u>	2	: > 2)	UPL species	x5=	
1. Centaurea Sois fitalis	<u> </u>	2		Column Totals:	(A)	(B)
2. Fistuca perenni(3. Bodium sp	10	y	- FACU UPI	Prevalence Index	= B/A =	
4. Malva Parvi Hora	- 10	n	- 1	Hydrophytic Vegetation		
5. Cynodon dactylon	5	n	VPI.	Dominance Test is		n Tuolii
6				Prevalence Index i		-15.11
7.					ptations ¹ (Provide sup	
8					s or on a separate she	
Total Cov	er: <u>85</u>			Problematic Hydro	onytic vegetation (Ex	(plain)
Woody Vine Stratum				¹ Indicators of hydric soi	l and wattand hydrolo	and mount
1.	v 1000 m			be present.	rand welland riyurdio	gy must
2Total Cov	er:			Hydrophytic		-
		uet III.		Vegetation	s No_X_	
	er of Biotic Cr	ust		Present? Ye	s No	- }
Remarks:						
						- H - '

Profile Description: (Describe to the	depth needed to document the indicator or co	onfirm the absence of Indicators.)
Depth Matrix	Redox Features	ورسان والاستان والمتناب والمستدر والمستدر
(inches) Color (moist) %	Color (moist) % Type ¹ Lo	pc ² Texture Remarks
2-9 5TR 414 100	0_	lamyclay
100		
Type: C=Concentration, D=Depletion,	RM=Reduced Matrix 21 ocation: PI =Pore Lini	ing, RC=Root Channel, M=Matrix.
ydric Soil Indicators: (Applicable to		Indicators for Problematic Hydric Soils ³ :
_ Histosol (A1)	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
_ Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
_ Black Histic (A3)	Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
_ Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
_ Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remarks)
_ 1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6)	
_ Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	
_ Thick Dark Surface (A12)	Redox Depressions (F8)	
_ Sandy Mucky Mineral (S1)	Vernal Pools (F9)	³ Indicators of hydrophytic vegetation and
_ Sandy Gleyed Matrix (S4)		wetland hydrology must be present.
estrictive Layer (if present):		
Type:		37
Depth (inches):		Hydric Soil Present? Yes No
Depth (inches):		Hydric Soil Present? Yes No
Depth (inches):emarks:		Hydric Soil Present? Yes No
Depth (inches):emarks: DROLOGY etland Hydrology Indicators:		Hydric Soil Present? Yes No X
Depth (inches):emarks: DROLOGY etland Hydrology Indicators:		
Depth (inches):emarks: DROLOGY etland Hydrology Indicators:	ufficient) Salt Crust (B11)	Secondary Indicators (2 or more required)
Depth (inches):emarks: DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is s _ Surface Water (A1) _ High Water Table (A2)	Salt Crust (B11) Biotic Crust (B12)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine)
Depth (inches): emarks: DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is s _ Surface Water (A1)	Salt Crust (B11)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Depth (inches):emarks: DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is s _ Surface Water (A1) _ High Water Table (A2)	Salt Crust (B11) Biotic Crust (B12)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Depth (inches):emarks: DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is s _ Surface Water (A1) _ High Water Table (A2) _ Saturation (A3)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
Depth (inches):emarks: DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is s _ Surface Water (A1) _ High Water Table (A2) _ Saturation (A3) _ Water Marks (B1) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7)
Depth (inches):emarks: DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is s _ Surface Water (A1) _ High Water Table (A2) _ Saturation (A3) _ Water Marks (B1) (Nonriverine) _ Sediment Deposits (B2) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8)
Depth (inches):emarks: DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is s Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed So	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) ils (C6) Saturation Visible on Aerial Imagery (C9)
Depth (inches): pemarks: DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is s 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	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed So	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) ils (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Depth (inches):	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed So	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) ils (C6) Saturation Visible on Aerial Imagery (C9)
Depth (inches):emarks: DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is s _ Surface Water (A1) _ High Water Table (A2) _ Saturation (A3) _ Water Marks (B1) (Nonriverine) _ Sediment Deposits (B2) (Nonriverine) _ Drift Deposits (B3) (Nonriverine) _ Surface Soil Cracks (B6) _ Inundation Visible on Aerial Imagery _ Water-Stained Leaves (B9)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed So (B7) Other (Explain in Remarks)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) ils (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Depth (inches):emarks: POROLOGY Petland Hydrology Indicators: imary Indicators (any one indicator is section of the se	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed So (B7) Other (Explain in Remarks) No Depth (inches):	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) ils (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Depth (inches):emarks: POROLOGY Petland Hydrology Indicators: Imary Indicators (any one indicator is s Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Pold Observations: Inface Water Present? Yes ater Table Present?	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed So (B7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) ils (C6) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (inches):emarks: POROLOGY Petland Hydrology Indicators:imary Indicators (any one indicator is s Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Water-Stained Leaves (B9) Water-Stained Leaves (B9) water Table Present? Yes turation Present? Yes	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed So Other (Explain in Remarks) No Depth (inches): 79" No Depth (inches): 79"	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) ils (C6) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (inches):emarks: POROLOGY Petland Hydrology Indicators: imary Indicators (any one indicator is section in a	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed So (B7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) ils (C6) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (inches):	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed So Other (Explain in Remarks) No Depth (inches): 79" No Depth (inches): 79"	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) ils (C6) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)

Project/Site: North County Caridox	City/County: 5to	Sampling Date: 314/14
Applicant/Owner: Stanislaus County		
Investigator(s): MIKE True HOOd/Donawnow	_ Section, Township, Ra	ange:
Landform (hillslope, terrace, etc.):		
Subregion (LRR): Lat:		Long: Datum:
Soil Map Unit Name:		NWI classification:
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 significant	ly disturbed? Are	"Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology naturally p	roblematic? (If n	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showin	g sampling point	locations, transects, important features, etc
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Trysated paston, watlands	within a Wetla	nd? Yes No
VEGETATION	E 2 1	0 = ===================================
Absolute		Dominance Test worksheet:
	r Species? Status	Number of Dominant Species
1		That Are OBL, FACW, or FAC: (A)
3.		Total Number of Dominant Species Across All Strata: (B)
4.		H H
Total Cover:Sapling/Shrub Stratum	_	That Are OBL, FACW, or FAC: (A/B)
1		Prevalence Index worksheet:
2.		Total % Cover of: Multiply by:
3		OBL species x 1 =
4.		FACW species x 2 =
5		FAC species x 3 = FACU species x 4 =
Herb Stratum		UPL species x 5 =
1. Matricaria discoidea IS	y FACU	Column Totals: (A) (B)
2. Rumex Sp. 2 3. Plantago Janceolata Z	R Fac	
3. Plantago lanceolata 2 4. Eleocharis Sp. 30	n Fac	Prevalence Index = B/A = Hydrophytic Vegetation Indicators:
5. Na sturium officinale 15	9 001	Dominance Test is >50%
6. Callitriche sp 15	4 061	Prevalence Index is ≤3.0¹
7	J	Morphological Adaptations ¹ (Provide supporting
8.		data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
Total Cover:		(Explain)
1		¹ Indicators of hydric soil and wetland hydrology must
2. 1006 20 1000 0 1, 1913 -	1 1155 =	be present.
Total Cover:	crust	Hydrophytic Vegetation Present? Yes No
Remarks:		

_	_	
•		
-	LJ	

Sampling Point: 13

Depth Matrix	Red	ox Feature	s			
(inches) Color (moist) %	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-13" 1047241 80	SYR314	20	<u>C</u>	M	dille y il	Ramy (lay
V ru = u						
						V
185						
	- 					
			-			
Type: C=Concentration, D=Depletion, RI		*Location	: PL=Por	e Lining, f	RC=Root Chan	
lydric Soil Indicators: (Applicable to a			9d.)			for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Red					Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped M					fluck (A10) (LRR B)
Black Histic (A3) Hydrogen Sulfide (A4)	Loamy Muc					ed Vertic (F18)
_ ` ` ` ` `	Loamy Gle		(F2)			arent Material (TF2)
_ Stratified Layers (A5) (LRR C) _ 1 cm Muck (A9) (LRR D)	Depleted M Redox Darl		E6)		Other	(Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted D	-	•			
_ Thick Dark Surface (A12)	Redox Dep		` '			
_ Sandy Mucky Mineral (S1)	Vernal Pool	•	٥,		3Indicators	of hydrophytic vegetation and
_ Sandy Gleyed Matrix (S4)		()				hydrology must be present.
estrictive Layer (if present):					1	
Type:					1	1.0
					Hydric Soil	Dracont? Vac X
Type: Depth (inches): emarks:					Hydric Soil	Present? Yes X No
Depth (inches):emarks:					Hydric Soil	Present? Yes X No
Depth (inches):emarks: /DROLOGY						
Depth (inches): emarks: DROLOGY etland Hydrology Indicators:	ficient)				Secon	dary Indicators (2 or more required)
Depth (inches): emarks: /DROLOGY /etland Hydrology Indicators: rimary Indicators (any one indicator is suf		(R41)			Secon W	dary Indicators (2 or more required) ater Marks (B1) (Riverine)
Depth (inches): emarks: /DROLOGY etland Hydrology Indicators: rimary Indicators (any one indicator is suff	Salt Crust				Secon	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine)
Depth (inches):emarks: DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is suff _ Surface Water (A1) _ High Water Table (A2)	Salt Crust Biotic Crus	t (B12)	(P42)		<u>Secon</u> W Se Di	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine)
Depth (inches):emarks: /DROLOGY /etland Hydrology Indicators: rimary Indicators (any one indicator is suff _ Surface Water (A1) _ High Water Table (A2) _ Saturation (A3)	Salt Crust Biotic Crus Aquatic Inv	t (B12) vertebrates			<u>Secon</u> W Se Di Di	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) ainage Pattems (B10)
Depth (inches): emarks: DROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicator is suff Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	Salt Crust Biotic Crus Aquatic Inv	et (B12) vertebrates Sulfide Ode	or (C1)	hijng Doo	Secon W Se Di Di Di	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) adiment Deposits (B3) (Riverine) adimage Patterns (B10) ay-Season Water Table (C2)
Depth (inches): emarks: /DROLOGY /etland Hydrology Indicators: rimary Indicators (any one indicator is suff Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	Salt Crust Biotic Crus Aquatic Inv Hydrogen S Oxidized R	it (B12) vertebrates Sulfide Ode thizosphere	or (C1) es along l		Secon	dary Indicators (2 or more required) later Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) sin Muck Surface (C7)
Depth (inches): emarks: //DROLOGY //etland Hydrology Indicators: rimary Indicators (any one indicator is suff _ Surface Water (A1) _ High Water Table (A2) _ Saturation (A3) _ Water Marks (B1) (Nonriverine) _ Sediment Deposits (B2) (Nonriverine) _ Drift Deposits (B3) (Nonriverine)	Salt Crust Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence o	et (B12) vertebrates Sulfide Ode thizosphere of Reduced	or (C1) es along L I Iron (C4)	Secon W Se Di Di Di Tr Cr	dary Indicators (2 or more required) (ater Marks (B1) (Riverine) (addiment Deposits (B2) (Riverine) (addiment Deposits (B3) (Riverine) (addiment Deposits (B3) (Riverine) (addiment Deposits (B10) (
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Project/Site: North County	Carida	City/County:	anislaus	_ Sampling Date: 3 13/14
Applicant/Owner: Stanislaus Co				
Investigator(s): MIKETYULHIODE	1 Dayna Winchell	Section, Township, F	Range:	AND AND AND ASSET
Landform (hillslope, terrace, etc.):	Control of the Contro			
Subregion (LRR):				
Soil Map Unit Name:				ication:
Are climatic / hydrologic conditions on the	site typical for this time of ye	ear? Yes 💢 No	(If no, explain in	Remarks.)
Are Vegetation <u>×</u> , Soil, or Hy	drology significantly	y disturbed? Are		present? Yes No X
Are Vegetation, Soil, or Hy	drology naturally pr		needed, explain any answ	
SUMMARY OF FINDINGS - Atta	ıch site map showing	g sampling point	locations, transect	s, important features, etc
Hydrophytic Vegetation Present?	Yes NoX	Is the Sample	nd Area	netiek net dellev
Hydric Soil Present?	Yes No	within a Wetla		No
Wetland Hydrology Present? Remarks:	Yes No _X			166 16773
Vegetation wasch	earred ADUD	by callie	Il I contin	I VV is a led pasture
organi in austr	acourty city	104114	Histor spot in	11. January Passion CC
				a come terra a second
VEGETATION			n Peri	
<u>Tree Stratum</u> (Use scientific names.)	Absolute <u>% Cover</u>	Dominant Indicator Species? Status	Dominance Test wor Number of Dominant S	
1			That Are OBL, FACW,	
2.			Total Number of Domi	nant
3. 11 12 1 10 12 12 12 12 12 12 12 12 12 12 12 12 12			Species Across All Str	
4.			Percent of Dominant S	Species
Sapling/Shrub Stratum	Total Cover:	•	That Are OBL, FACW,	or FAC: (A/B)
1			Prevalence Index wo	rksheet:
2			1	Multiply by:
3.				x 1 =
4				x 2 =
5				x3=
Herb Stratum	Total Cover:			x 4 =
1 Matricaria disco	idea 40	YES FACU		x 5 = (B)
2. MKnown gass	45	Yes UPI	Column Totals.	(A) (B)
3			Prevalence Index	c = B/A =
4			Hydrophytic Vegetati	
5		18.7	Dominance Test is	
6			Prevalence Index	
7		11 371 = E	Morphological Ada data in Remark	ptations ¹ (Provide supporting s or on a separate sheet)
B	***************************************			phytic Vegetation ¹ (Explain)
Woody Vine Stratum	Total Cover:			
1	- Hot	1 8175		il and wetland hydrology must
2.			be present.	
	Total Cover:		Hydrophytic	- V
% Bare Ground in Herb Stratum	% Cover of Biotic Cr	rust	Vegetation Present? Ye	s No
Remarks:				
	foasture.	211 01 2	111011	
in the made o	· pullon, c	plant	WELL	
che	wed down	1		

-	_		
•	71	11	
J	v	14	_

Sampling Point: 13c

Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type¹ Loc D-10" SYR4/4 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
0-10" SYR414 100	Z ² Texture Remarks
	joanny ciay
	- Louis Jenny
Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Linin	ng, RC=Root Channel, M=Matrix.
lydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1) Sandy Redox (S5)	
	1 cm Muck (A9) (LRR C)
	2 cm Muck (A10) (LRR B)
Black Histic (A3) Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) .	Red Parent Material (TF2)
Stratified Layers (A5) (LRR C) Depleted Matrix (F3)	Other (Explain in Remarks)
1 cm Muck (A9) (LRR D) Redox Dark Surface (F6)	
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)	
Thick Dark Surface (A12) Redox Depressions (F8)	1. ().
Sandy Mucky Mineral (S1) Vernal Pools (F9)	³ Indicators of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)	wetland hydrology must be present.
lestrictive Layer (if present):	
Type:	V
Depth (inches):	Hydric Soil Present? Yes No X
Remarks:	
/DROLOGY	
/etland Hvdrology Indicators:	Secondary Indicators (2 or more required)
	Secondary Indicators (2 or more required)
rimary Indicators (any one indicator is sufficient)	Water Marks (B1) (Riverine)
rimary Indicators (any one indicator is sufficient) Surface Water (A1) Salt Crust (B11)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
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rimary Indicators (any one indicator is sufficient) Sulface Water (A1) Salt Crust (B11)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
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rimary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soll Cracks (B6) Inundation Visible on Aerial Imagery (B7) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soil	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) Is (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
rimary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soll Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Salt Crust (B11) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soil: Other (Explain in Remarks)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) Is (C6) Saturation Visible on Aerial Imagery (C9)
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Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Drift Deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) Surface Soll Cracks (B6) Recent Iron Reduction in Plowed Soil Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Water-Stained Leaves (B9) eld Observations: Jurface Water Present? Yes No Depth (inches): 7/0" Auturation Present? Yes No Depth (inches): 7/0" Jurface Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections are marks:	
Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Drift Deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) Surface Soll Cracks (B6) Recent Iron Reduction in Plowed Soil Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Water-Stained Leaves (B9) eld Observations: Jurface Water Present? Yes No Depth (inches): 7/0" Auturation Present? Yes No Depth (inches): 7/0" Jurface Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections are marks:	
Surface Water (A1) High Water Table (A2) Salt Crust (B11) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soll Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water Stained Leaves (B9) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soil Other (Explain in Remarks) Water-Stained Leaves (B9) Held Observations: Autraction Present? Yes No Depth (inches): Depth (inche	

Project/Site: Novh County Ca	ridor	City/Count	y: 5t	anislaus	_ Sampling Date: _	4/15/2014
Applicant/Owner: Stanislaus Count				State: CA		
Investigator(s): MIKETYUE DI ON of De						
Landform (hillslope, terrace, etc.):	18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
Subregion (LRR):						
Soil Map Unit Name:						
Are climatic / hydrologic conditions on the site ty					The state of the s	
Are Vegetation, Soil, or Hydrolog			-			No
Are Vegetation, Soil, or Hydrolog						140
SUMMARY OF FINDINGS - Attach s						atures, etc.
Lucini de la cultura de la constante en la con	✓ No		mang			JEMBA #
Hydric Soil Present? Yes _	V No	18 0	ne Sample iin a Wetla		No	
Wetland Hydrology Present? Yes _	No	With	iin a weti	and? Yes <u>V</u>	NO	
Remarks:			21,593,5		- m-vi 21 -	
VECETATION		248 93				WT / =
VEGETATION	About to	5	9 13 17	who Nu — — — —	H107	UXH G E
Tree Stratum (Use scientific names.) 1	0/ 0	Dominant Species?		Number of Dominant S That Are OBL, FACW,	pecies _	(A)
2				Total Number of Domin	ant	21-11 H H
3				Species Across All Stra		(B)
4		71311 = 3		Percent of Dominant St	pecies ,	• ,
Sapling/Shrub Stratum	otal Cover:	-		That Are OBL, FACW,	or FAC: 100	(A/B)
	<u> </u>			Prevalence Index work	ksheet:	
2.		31 <u>-8</u> H E		Total % Cover of:	Multiply	by:
3				OBL species	x 1 =	
4. <u>- 19 10 - 10 10 10 10 10 1</u>			71 4	FACW species	x 2 =	Section and
5.				FAC species	21.8 5 1	
	otal Cover:	r i i i		FACU species		
Herb Stratum 1. Eleochuris Macrostachia	80%	Yes	ObL	UPL species		
2. Junels essus	30%	Kes	066	Column Totals:	(A)	(B)
3. Glyceria declinata		NO	Obl	Prevalence Index	= B/A =	
4. Proce crospus	1%		Fac	Hydrophytic Vegetatio	n Indicators:	
5. Mimyles entratus		No	Obi	✓ Dominance Test is	>50%	
6.			Saver I	Prevalence Index is	s ≤3.0 ¹	- S
7				Morphological Adap data in Remarks	otations ¹ (Provide su or on a separate sl	upporting neet)
8	tal Cover: 1096		- 12	Problematic Hydrop	hytic Vegetation¹ (E	explain)
Woody Vine Stratum	nai Covei10 110			The same of the sa		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Tayor :		¹ Indicators of hydric soil	and wetland hydrol	ogy must
2.			-70_E ₁₁ 0	be present.	<u> 1967 - 196</u>	wax idies, 9
To	tal Cover:			Hydrophytic		
% Bare Ground in Herb Stratum	% Cover of Biotic Cr	ust _		Vegetation Present? Yes	√ No	
Remarks:	7121 11		V2112 11	100		

Depth (inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
⊃-13"	10TR 3/1	88/0	2.570 2.5/4	12%		M		Clan
Type: C=C	oncentration, D=Dep	etion, RM=	Reduced Matrix.	² Location:	PL=Pore	Lining, F		
	indicators: (Applica	adie to ali i			d.)			for Problematic Hydric Soils ³ :
Histosol			Sandy Redo					luck (A9) (LRR C)
	oipedon (A2)		Stripped Ma		(F4)			uck (A10) (LRR B)
Black Hi	suc (A3) n Sulfide (A4)		Loamy Mucl					ed Vertic (F18)
	Layers (A5) (LRR C	1	Loamy Gley Depleted Ma		,F2) .			rent Material (TF2)
	ck (A9) (LRR D)	7	Redox Dark		6)		Other (Explain in Remarks)
	Below Dark Surface	(A11)	Depleted Da					
	rk Surface (A12)	,	✓ Redox Depre		. ,			
	ucky Mineral (S1)		Vernal Pools				3Indicators	of hydrophytic vegetation and
	leyed Matrix (S4)							hydrology must be present.
	ayer (if present):							
Туре:								
Type: Depth (inc	hes):					*	Hydric Soil I	Present? Yes V No
Type: Depth (inc Remarks:	hes):					**	Hydric Soil I	Present? Yes No
Type:	hes):						e la	
Type: Depth (income semarks:	hes):	or is suffici	ent)				Second	lary Indicators (2 or more required)
Type:	hes): Y rology Indicators: ttors (any one indicat	or is sufficie		311)		*	Second	lary Indicators (2 or more required) ater Marks (B1) (Riverine)
Type:	hes): Y rology Indicators: ttors (any one indicat	or is sufficie	Salt Crust (I	•			<u>Second</u> Wa Se	lary Indicators (2 or more required) tter Marks (B1) (Riverine) diment Deposits (B2) (Riverine)
Type:	hes):	or is sufficie	Salt Crust (I	(B12)	(B13)		Second We Se	lary Indicators (2 or more required) hter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine)
Type:	hes):		Salt Crust (I Biotic Crust Aquatic Inve	(B12) ertebrates (Second Wa Se Dri Dri	lary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10)
Type:	hes):	e)	Salt Crust (I Biotic Crust Aquatic Inve	(B12) ertebrates (ulfide Odor	r (C1)	ving Root	Second Was Second Dri Dri Dra	lary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) r-Season Water Table (C2)
Type:	hes):	e) iverine)	Salt Crust (I Biotic Crust Aquatic Inve	(B12) ertebrates (ulfide Odor izospheres	r (C1) s along Li	ving Root	Second 	lary Indicators (2 or more required) Inter Marks (B1) (Riverine) Idiment Deposits (B2) (Riverine) If Deposits (B3) (Riverine) Interior (B10) Interior (B1
Type:	hes):	e) iverine)	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of	(B12) ertebrates (ulfide Odor izospheres Reduced I	r (C1) s along Li Iron (C4)		Second Wa Se Dri Dra Dry S (C3) Thi	lary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) r-Season Water Table (C2) in Muck Surface (C7) syfish Burrows (C8)
Type:	hes):	e) iverine) ie)	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron	(B12) ertebrates (ulfide Odor izospheres Reduced I	r (C1) s along Li Iron (C4) in Plowe		Second Wa Se Dri Dra Dry S (C3) Thi Cra 6) Sat	lary Indicators (2 or more required) Inter Marks (B1) (Riverine) Idiment Deposits (B2) (Riverine) Idiment Deposits (B3) (Riverine) Idinage Patterns (B10) In Season Water Table (C2) In Muck Surface (C7) In Syfish Burrows (C8) In April Imagery (C8)
Type:	hes):	e) iverine) ie)	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of	(B12) ertebrates (ulfide Odor izospheres Reduced I	r (C1) s along Li Iron (C4) in Plowe		Second Wa Se Dri Dra Dra Cra S(C3) Sal Sha	lary Indicators (2 or more required) Inter Marks (B1) (Riverine) Idiment Deposits (B2) (Riverine) Idiment Deposits (B3) (Riverine) Idimage Patterns (B10) In Muck Surface (C7) In Muck Surface (C7) In Mick Surface (C8) Interval Int
Type:	hes):	e) iverine) ie)	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron	(B12) ertebrates (ulfide Odor izospheres Reduced I	r (C1) s along Li Iron (C4) in Plowe		Second Wa Se Dri Dra Dra Cra S(C3) Sal Sha	lary Indicators (2 or more required) Inter Marks (B1) (Riverine) Idiment Deposits (B2) (Riverine) Idiment Deposits (B3) (Riverine) Idinage Patterns (B10) In Season Water Table (C2) In Muck Surface (C7) In Syfish Burrows (C8) In April Imagery (C8)
Type:	hes):	e) iverine) ae) agery (B7)	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Other (Expla	(B12) ertebrates (ulfide Odor eizospheres Reduced I Reduction ain in Rema	r (C1) s along Li Iron (C4) in Plowe		Second Wa Se Dri Dra Dra Cra S(C3) Sal Sha	lary Indicators (2 or more required) Inter Marks (B1) (Riverine) Idiment Deposits (B2) (Riverine) Idiment Deposits (B3) (Riverine) Idimage Patterns (B10) In Muck Surface (C7) In Muck Surface (C7) In Mick Surface (C8) Interval Int
Type:	hes):	e) iverine) ie) agery (B7)	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Other (Expla	(B12) ertebrates (ulfide Odor izospheres Reduced I Reduction ain in Rema	r (C1) s along Li Iron (C4) in Plower arks)		Second Wa Se Dri Dra Dra Cra S(C3) Sal Sha	lary Indicators (2 or more required) Inter Marks (B1) (Riverine) Idiment Deposits (B2) (Riverine) Idiment Deposits (B3) (Riverine) Idimage Patterns (B10) In Muck Surface (C7) In Muck Surface (C7) In Mick Surface (C8) Interval Int
Type:	hes):	e) iverine) ie) agery (B7)	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Other (Expla	(B12) ertebrates (ulfide Odor izospheres Reduced Reduction ain in Rema	r (C1) s along Li Iron (C4) in Plower arks)	d Soils (C	Second Wa Se Dri Dra Dry S (C3) Thi Cra 6) Sat FA	lary Indicators (2 or more required) after Marks (B1) (Riverine) diment Deposits (B2) (Riverine) alnage Patterns (B10) a-Season Water Table (C2) an Muck Surface (C7) ayfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3) C-Neutral Test (D5)
Type:	hes):	e) iverine) agery (B7) No No	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Other (Expla	(B12) ertebrates (ulfide Odor izospheres Reduced I Reduction ain in Rema	r (C1) s along Li lron (C4) in Plower arks)	d Soils (C	Second We Se Dri Dra Dry S (C3) Thi Cra Sha Sha FA	lary Indicators (2 or more required) Inter Marks (B1) (Riverine) Idiment Deposits (B2) (Riverine) Idiment Deposits (B3) (Riverine) Idimage Patterns (B10) In Season Water Table (C2) In Muck Surface (C7) In Muck Surface (C7) In Mick Surface (C8) In Muck Surface (C8) In Muck Surface (C8) In Muck Surface (C8) In Muck Surface (C7) In Muck Sur
Type: Depth (inc. Remarks: YDROLOC Vetland Hyd. Primary Indica Surface V High Water Saturation Water Ma Sediment Drift Depo Surface S Inundation Water-Sta Vetled Observa Veter Table Policy Veter Table P	hes):	e) iverine) agery (B7) No No	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Other (Expla	(B12) ertebrates (ulfide Odor izospheres Reduced I Reduction ain in Rema	r (C1) s along Li lron (C4) in Plower arks)	d Soils (C	Second We Se Dri Dra Dry S (C3) Thi Cra Sha Sha FA	lary Indicators (2 or more required) after Marks (B1) (Riverine) diment Deposits (B2) (Riverine) alnage Patterns (B10) a-Season Water Table (C2) an Muck Surface (C7) ayfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3) C-Neutral Test (D5)
Type:	hes):	e) iverine) agery (B7) No No	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Other (Expla	(B12) ertebrates (ulfide Odor izospheres Reduced I Reduction ain in Rema	r (C1) s along Li lron (C4) in Plower arks)	d Soils (C	Second We Se Dri Dra Dry S (C3) Thi Cra Sha Sha FA	lary Indicators (2 or more required) after Marks (B1) (Riverine) diment Deposits (B2) (Riverine) alnage Patterns (B10) a-Season Water Table (C2) an Muck Surface (C7) ayfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3) C-Neutral Test (D5)
Type:	hes):	e) iverine) agery (B7) No No	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Other (Expla	(B12) ertebrates (ulfide Odor izospheres Reduced I Reduction ain in Rema	r (C1) s along Li lron (C4) in Plower arks)	d Soils (C	Second We Se Dri Dra Dry S (C3) Thi Cra Sha Sha FA	lary Indicators (2 or more required) after Marks (B1) (Riverine) diment Deposits (B2) (Riverine) alnage Patterns (B10) a-Season Water Table (C2) an Muck Surface (C7) ayfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3) C-Neutral Test (D5)

Project/Site: Novh County	Corido		City/C	ounty: _5t	anislaus sam	oling Date: _	4/15/2019
Applicant/Owner: Stanislaus C	ounty				State: CA Samp	oling Point:	140
Investigator(s): MIKETYUE HIOD	atDaunau	Dinchel	Section	on, Township,	Range:	STEL	2000
Landform (hillslope, terrace, etc.):							
Subregion (LRR):							
Soil Map Unit Name:							
Are climatic / hydrologic conditions on th							
Are Vegetation, Soil, or I					re "Normal Circumstances" present	-	No
Are Vegetation, Soil, or H	łydrology r	naturally pro	oblema	tic? (If	needed, explain any answers in R	emarks.)	
SUMMARY OF FINDINGS - At	tach site map	showing	sam	pling poin	t locations, transects, imp	ortant fea	atures, etc
Hydrophytic Vegetation Present?	Yes N	o		is the Sampi	malin de l'inn (ië de part)	h ni	
Hydric Soil Present?	Yes N	o		within a Wet		lo	
Wetland Hydrology Present?	Yes N	°			165 <u>V</u>		
Remarks:					nev Time 5		// <u>9</u> - 9-34
87 III 8 9	BH H		2 5 111	li .		111 11	
VEGETATION							- 8
		Absolute		nant Indicato			
<u>Tree Stratum</u> (Use scientific names.)		% Cover	Spec	ies? Status	- I Marriber of Dominant Species	one H	
1.					_ That Are OBL, FACW, or FAC:		(A)
2. 3.					Total Number of Dominant	۵	
4					Species Across All Strata:		(B)
	Total Cover:				Percent of Dominant Species	loc) (A/B)
Sapling/Shrub Stratum		101111			That Are OBL, FACW, or FAC:	<u> 100</u>	(A/B)
1.					Prevalence Index worksheet:		71. 1
2					Total % Cover of:		
3.					OBL species		
4				1000	FACW species		
5.	Total Course	2 1	FIGURE	62 11 11 1 -	FAC species		
Herb Stratum	Total Cover:	7			FACU species		
1. Electronis macrostachya		75%	Yes	Obl	- Column Totals: ((B)
2. Calycerta declinate		20%	Yas	ObL		· -	(D)
3. Juneus 25 fusus		5%	No	OPL	Prevalence Index = B/A =		
4. Ranunculus sp.		1%	No	Facw	Hydrophytic Vegetation Indic	ators:	James -
5. <u>× 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 </u>	1 M 11 HY				✓ Dominance Test is >50%		
3					Prevalence Index is ≤3.0 ¹	mun À	
7.	120				Morphological Adaptations data in Remarks or on a	(Provide su	upporting
B		15. 1		<u> </u>	Problematic Hydrophytic Ve		
Voody Vine Stratum	Total Cover:	101				(L	
I.					¹ Indicators of hydric soil and we	tland hydrol	ogy must
e de la composición dela composición de la composición dela composición de la composición de la composición de la composición dela composición de la composición de la composición dela composición de la composición de la composición de la composic		191011			be present.	,	on minn
	Total Cover:	TI. =:		9 8	Hydrophytic		
% Bare Ground in Herb Stratum	walling and	of Biotic Cru	uniini et		Vegetation Present? Yes	No	
	% Cover o	BIOUC CIT	ısı		Present? Yes V	No	
Remarks:							

SOIL								Sampling Point: 14a
	cription: (Describe	to the dep	oth needed to docu	ment the ir	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix			x Features				
(inches)	Color (moist)		Color (moist)	- %	Type'	_Loc²	Texture	Remarks
0-12"	10453/1	90%	2.5YR 15/4	10%		<u>M</u>	11/1/31	Clay
	سيجيند							0
						<u>- 1 </u>		
			300	×3				
- 12							·	
	\ <u></u>							
	SECTION SECTION AND							
Type: C=Co	oncentration, D=Dep	letion, RM=	Reduced Matrix.	² Location:	PL=Pore	Lining, RO		
	Indicators: (Application	able to all			d.)			for Problematic Hydric Soils ³ :
Histosol	(A1) Dipedon (A2)		Sandy Redo					uck (A9) (LRR C)
Histic Ep Black His			Stripped Ma Loamy Muc		(E1)		7	uck (A10) (LRR B) od Vertic (F18)
_	n Sulfide (A4)		Loamy Gley					rent Material (TF2)
	Layers (A5) (LRR C	;)	Depleted Ma	-	-, .			Explain in Remarks)
	ck (A9) (LRR D)		Redox Dark		•			•
	Below Dark Surface	(A11)	Depleted Da					
	rk Surface (A12)		✓ Redox Depr		3)		3	Marie California
	ucky Mineral (S1) leyed Matrix (S4)		Vernal Pools	s (F9)			"Indicators o	f hydrophytic vegetation and
	leyeu Mauk (34)						second and de	and all and an arranged to a second
Restrictive L						- T	wetland h	nydrology must be present.
	ayer (if present):						wetland h	nydrology must be present.
Туре:	ayer (if present):							
Type: Depth (inc	ayer (if present):						wetland h	
Type: Depth (inc Remarks:	ayer (if present): hes):							
Туре:	ayer (if present): hes):							
Type: Depth (inc Remarks:	ayer (if present): hes):							
Type: Depth (inc Remarks:	ayer (if present): hes):							
Type: Depth (inc Remarks:	ayer (if present): hes):							
Type: Depth (incl Remarks:	ayer (if present): hes):						Hydric Soil P	Present? Yes V No
Type: Depth (incl Remarks: /DROLOG	ayer (if present): hes):	or is suffici	ent)				Hydric Soil P	Present? Yes No
Type: Depth (incl Remarks: /DROLOG	ayer (if present): hes): Y rology Indicators: ators (any one indicat	or is suffici	ent)Salt Crust (B11)			Hydric Soil P Second Wa	Present? Yes No
Type: Depth (incomerks: CPROLOGIEST AND HELD COMERCE AND HELD COMERC	ayer (if present): hes): Y rology Indicators: ators (any one indicat	or is suffici	Salt Crust (Second Wa	Present? Yes No lary Indicators (2 or more required) tter Marks (B1) (Riverine) diment Deposits (B2) (Riverine)
Type: Depth (incomerks: CPROLOGIEST AND HELD COMERCE AND HELD COMERC	hes): rology Indicators: stors (any one indicators (A1) er Table (A2)	or is suffici		(B12)	B13)		Second Wa Sec Drif	Present? Yes No ary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine)
Type: Depth (incl Remarks: /DROLOG /etland Hyde rimary Indica _ Surface W _ High Wate _ Saturation	hes): rology Indicators: stors (any one indicators (A1) er Table (A2)		Salt Crust (i	(B12) ertebrates (E11		Second Wa Sec Drift Dra	ary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine)
Type: Depth (income the content of the content	hes): hes): rology Indicators: ators (any one indicators (A1) ar Table (A2) a (A3)	e)	Salt Crust (i Biotic Crust Aquatic Inve	(B12) ertebrates (ulfide Odor	(C1)	ving Roots	Second Wa Sec Drift Dra Dry	ary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10)
Type: Depth (income of the content of the cont	hes):	e) iverine)	Salt Crust (i Biotic Crust Aquatic Invo Hydrogen S	(B12) ertebrates (ulfide Odor nizospheres	(C1) along Li		Second Wa Sec Drif Dra Dry (C3) Thir	ary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) tinage Patterns (B10) -Season Water Table (C2) In Muck Surface (C7)
Type: Depth (income the content of the content	hes):	e) iverine)	Salt Crust (I Biotic Crust Aquatic Inve	(B12) ertebrates (sulfide Odor nizospheres Reduced I	(C1) along Li ron (C4)	t.	Second Wa Sec Drif Dra Dry (C3) Thir	ary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) tinage Patterns (B10) -Season Water Table (C2) on Muck Surface (C7) syfish Burrows (C8)
Type: Depth (income the content of the content	hes):	e) iverine) le)	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rf	(B12) ertebrates (light of the control of the contr	(C1) along Li ron (C4) in Plowe	t.	Second Second Wa Sec Drif Dra Dry (C3) Thir Cra	ary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) tinage Patterns (B10) -Season Water Table (C2) In Muck Surface (C7)
Type: Depth (income of the content of the cont	hes):	e) iverine) le)	Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Ri Presence of Recent Iron	(B12) ertebrates (light of the control of the contr	(C1) along Li ron (C4) in Plowe	t.	Second Second Wa Sec Drif Dra Dry (C3) Thir Cra X Satt	Present? Yes No Party Indicators (2 or more required) Inter Marks (B1) (Riverine) Idiment Deposits (B2) (Riverine) If Deposits (B3) (Riverine) Interpolation (B10) Interpolati
Type: Depth (income of the content of the cont	hes):	e) iverine) le)	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Ri Presence of Recent Iron	(B12) ertebrates (light of the control of the contr	(C1) along Li ron (C4) in Plowe	t.	Second Second Wa Sec Drif Dra Dry (C3) Thir Cra X Satt	Present? Yes No
Type: Depth (income property) Property (income prope	hes):	e) iverine) ne) agery (B7)	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Ri Presence of Recent Iron	(B12) ertebrates (l sulfide Odor nizospheres f Reduced I Reduction ain in Rema	(C1) along Li ron (C4) in Plowe	t.	Second Second Wa Sec Drif Dra Dry (C3) Thir Cra X Satt	Present? Yes No
Type: Depth (income of the content of the con	hes): hes): hes): hes): tology indicators: tors (any one indicators) vater (A1) er Table (A2) n (A3) rks (B1) (Nonrivering belosits (B2) (Nonrivering coll Cracks (B6) n Visible on Aerial Implications: Present? Yes	e) iverine) ae) agery (B7)	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Re Presence of Recent Iron Other (Expla	(B12) ertebrates (i sulfide Odor nizospheres f Reduced I Reduction ain in Rema	(C1) along Li ron (C4) in Plowe	t.	Second Second Wa Sec Drif Dra Dry (C3) Thir Cra Satu	Present? Yes No

Remarks:

Project/Site: Novh County Coxid	10	Citv/Cou	ntv: St	ANISIAUS Sampling Date: 4/15/14
Applicant/Owner: Stanislaus County				State:CA Sampling Point:\ 4 b
Investigator(s): MIKETYUE HI OD of Day				
				o, convex, none): Slope (%):
				NWI classification:
Are climatic / hydrologic conditions on the site typical f				
Are Vegetation, Soil, or Hydrology				*Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology				needed, explain any answers in Remarks.)
				locations, transects, important features, e
Hydrophytic Vegetation Present? Hydric Soil Present? Yes	No	Is	the Sample	d Area
VEGETATION		0110012		
	Absolute	Domina	nt Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Use scientific names.) 1.		Species	7 Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2.				Total Number of Dominant
3.				Species Across All Strata: (B)
4Total C	over:	1 × 121		Percent of Dominant Species
Sapling/Shrub Stratum	FIELD AND AND			That Are OBL, FACW, or FAC: 50/o (A/B
1. = = = = = = = = = = = = = = = = = = =				Prevalence Index worksheet:
2		- 12 14	10 = 1	Total % Cover of: Multiply by:
3.				OBL species x 1 = 30
4			-	FACW species 6 x2 =12
5				FAC species
Herb Stratum	over:			UPL species
1. Trisalium hirtum		Yes	UPL	163 3-51
2. Tunces busoning	1%	Nd	Fuar	
3. Festuca perenne	5%	NO	Fucu	Prevalence index = B/A = 3, 5
4. Brome hardences	3%	NO	FACU	Hydrophytic Vegetation Indicators:
5. Eleocharis macrostachya	30%	Yes	Obs	Dominance Test is >50%
Rannaches Sp.	5%	No	Facu	Prevalence Index is ≤3.0 ¹
1. Lymis Triticardes	2%	NO	Fac	Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
3. Harden marinem was succontanum		NO	Fig	Problematic Hydrophytic Vegetation¹ (Explain)
Total Co Noody Vine Stratum	ver: 102%	THE STATE OF		1 Toblemade 1 yellophytic vegetation (Explain)
. Voody vine Stratum		DEST	21	¹ Indicators of hydric soil and wetland hydrology must
			2 11112	be present.
Total Co	ver:		EI LI	Hydrophytic
	ver of Blotic Cru	st		Vegetation Present? Yes No
Remarks:	The war		-/m-3/	a mar e e e e e e e e e e e e e e e e e e e

c	\sim	
3	UI	L

Sampling Point: 14h

Type: C=Conc Hydric Soll Ind Histosol (A' Histic Epipe Black Histic	V.	Look 5	YR 3.14				Texture	Sity loan	Large Rock
Type: C=Conc lydric Soil Ind Histosol (A' Histic Epipe Black Histic	entration, D=Depleticators: (Applicabil)	tion, RM=Rec	YR 3.14	15%	<u>C</u>				large Rock
Type: C=Conc lydric Soil Ind Histosol (A1 Histic Epipe Black Histic	entration, D=Deple licators: (Applicab	tion, RM=Rec						SIK Sanot	latge Neek
ydric Soil Ind Histosol (A1 Histic Epipe Black Histic	icators: (Applicat 1)	tion, RM=Rec						HI - V - 40-	
ydric Soil Ind _ Histosol (A1 _ Histic Epipe _ Black Histic	icators: (Applicat 1)	tion, RM=Rec						Hart De	
/dric Soil Ind _ Histosol (A1 _ Histic Epipe _ Black Histic	icators: (Applicat 1)		luced Matrix	2l ocation:	PI =Pore	Lining RC=R	oot Char	nel M=Matrix	
_ Histic Epipe _ Black Histic	V.	le to all LRR	s, unless other	wise note	d.)			for Problematic H	ydric Soils ³ :
Black Histic			✓ Sandy Redo	x (S5)		× ×	1 cm /	Muck (A9) (LRR C)	
	edon (A2)		Stripped Ma	trix (S6)				Muck (A10) (LRR B)	
Hydrogen S	(A3)		Loamy Mucl	cy Mineral ((F1)			ed Vertic (F18)	
_ , _ , _ , _ , _ , _ , _ , _ , _ , _ ,	ulfide (A4)	_	Loamy Gley	ed Matrix (i	F2) .	_	Red P	arent Material (TF2)	
Stratified La	yers (A5) (LRR C)	_	Depleted Ma	` '		_	_ Other	(Explain in Remarks	;)
_ 1 cm Muck	(A9) (LRR D)	-	Redox Dark	Surface (F	6)				
	elow Dark Surface (A11)	Depleted Da		• •				
	Surface (A12)	-	Redox Depre		3)	_			1.5
	cy Mineral (S1)	-	Vernal Pools	; (F9)		3/1		of hydrophytic vege	
	ed Matrix (S4)						wetland	hydrology must be	present.
estrictive Lay	er (if present):								
Туре:									
Depth (inches	s):					Hy	dric Soil	Present? Yes _	√ No
DROLOGY					<u> </u>				
etland Hydrol	ogy Indicators:						Secor	dary Indicators (2 or	r more required)
imary Indicator	s (any one indicator	r is sufficient)						ater Marks (B1) (Riv	. = 1
Surface Water	er (A1)		Salt Crust (I	311)				ediment Deposits (B	
High Water T	_ ' '		Biotic Crust	-				rift Deposits (B3) (Ri	
_ Saturation (A		-	Aquatic Inve		R13)			rainage Patterns (B1	
3.5.4	(B1) (Nonriverine)	-	Hydrogen S						
	posits (B2) (Nonriv	_				ving Roots (C3		ry-Season Water Ta	
	s (B3) (Nonriverine		_			ing Roots (Ca		nin Muck Surface (C	
_ Surface Soil (-	Presence of		- 1,1	1 D-II- (OC)		ayfish Burrows (C8)	
		- 	Recent Iron			Soils (C6)		aturation Visible on	
	sible on Aerial Imag	gery (D/)	Other (Expla	iin in Rema	ırks)			nallow Aquitard (D3)	
	d Leaves (B9)			1		14	F	C-Neutral Test (D5	TO THE STREET
eld Observatio				65.16	8,0	, 44		taria Au wasti	
rface Water Pre			Depth (inch		- 0/19 Le				
ater Table Pres			Depth (inch						
turation Presen	fringe)		Depth (inch				•	Present? Yes	No
	d Data (stream gau	ge, monitorin	g well, aerial ph	otos, previo	ous inspe	ctions), if avail	able:		
cludes capillary scribe Recorde									
scribe Recorde	<i>l</i> has	b1	Fg.	, ži	1 1	, el.	19 march	77	11 /
scribe Recorde	1 beem. we	ater She	itslas ov	er area	Lib	y Stons	und	in Through h	vell deained

Applicant/Covers State CA Sampling Point 14 c Investigator(s): Multer Turk Case Data	Project/Site: North County Cox	idox	City/Co	unty: 5ta	anislaus	Sampling Date: 4/15/2019
Investigator(s): M_I KET V V E H CO AFD AND World No. Section, Township, Range: Landrom (hillslope, terraes, etc.): Local relief (concave, corvex, none): Slope (%): Datum: Soli Map Unit Name: Are climate / hydrologic conditions on the site typical for this time of year? Yes ✓ No (If no, explain in Remarks.) Are Vegetation Soli or Hydrology significantly disturbed? Are Vegetation Soli or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) Are Vegetation Soli 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 Fresent? Yes ✓ No is the Sampled Aree within a Westand? Yes ✓ No within a Westand? Yes ✓ No Total Cover. Tree Stratum (Use scientific names.) Absolute Sacient? Status. Total Cover. T	Applicant/Owner: Stanislaus County					
Landform (fillslope, terrace, stc.): Local relief (concave, convex, none): Slope (%): Subregion (LRR): Lat: Long: NWI classification: NWI classificat	Investigator(s): MIKETrue Hood Dat	mawnchei	Section	, Township, R	lange:	National Tribert
Subtragion (LRR): Lat: Long: Datum: Soil Map Unit Name: Are dematic hydrologic conditions on the site typical for this time of year? Yes No (fin.excidain in Remarks.) Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No (fin.excidain in Remarks.) Are Vegetation Soil or Hydrology neturally problematic? (fin.excidain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No tash Sampled Are within a Wetland? Yes No within a Wetland? Yes No within a Wetland? Yes No thin a Wetland? Yes No thin a Wetland? Yes No Total Cover: Total Cover: Total Cover: Total Cover: Total Cover: FAC						
Soll Map Unit Name: Are climate / hydrologic conditions on the site typical for this time of year? Yes \(\sqrt{No} \) (If no. explain in Remarks.) Are Vegetation \(\sqrt{Soil} \) or Hydrology significantly disturbed? Are Vegetation \(\sqrt{Soil} \) 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 \(\sqrt{No} \) No within a Wetland? Wetland Hydrology Present? Yes \(\sqrt{No} \) No within a Wetland? Yes \(\sqrt{No} \) No within a						
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No						
Are Vegetation Soil or Hydrology algorificantly disturbed? Are "Normal Circumstances" present? Yes No No I (if needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No I is the Sampled Area within a Wetland? Yes No No I is the Sampled Area within a Wetland? Yes No No I is the Sampled Area within a Wetland? Yes No No I is the Sampled Area within a Wetland? Yes No No I is the Sampled Area within a Wetland? Yes No No I is the Sampled Area within a Wetland? Yes No No I is the Sampled Area within a Wetland? Yes No No I is the Sampled Area within a Wetland? Yes No I is the Sampled Area within a We		1.0				
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 No Is the Sampled Area within a Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No						·
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc Hydrophylic Vegetation Present? Yes						
Hydro Soil Present? Yes No within a Wetland? Yes No No within a Wetland? Yes No No Wetland Hydrology Present? Yes No No Wetland Hydrology must be present. Yes No No Wetland Hydrology must be present. Yes No No No No No No No N						
Wetland Hydrology Present? Yes No Within a Wetland? Yes No	Hydrophytic Vegetation Present? Yes _✓	No	le le	the Sample	d Area	
VEGETATION Absolute Species Status Dominant Indicator Species Status Number of Dominant Species That Are OBL, FACW, or FAC: 1	Hydric Soil Present? Yes	No	_			/ No
Absolute Dominant Indicator Species Status		No	1 2 1 9			1111 22 22 2
Absolute	Remarks:					
Absolute	E 21-00 0					
Absolute						
Absolute	APOETATION!					
Number of Dominant Species That Are OBL, FACW, or FAC: 1	VEGETATION				8 77 8	
1	Tree Stratum (Use scientific names.)					The results of the second
Total Cover: Total Cover: Total Cover: Sapling/Shrub Stratum Total Cover: Sapling/Shrub Stratum Total Cover: Total Cover: Total % Cover of: Frevalence Index worksheet: Total % Cover of: FACW species x 1 = FACW species x 3 = FACW species x 3 = FACW species x 4 = UPL species x 5 = Column Totals: (A) (B) Prevalence Index = B/A = FACW species x 5 = Column Totals: (A) (B) Prevalence Index = B/A = FACW species x 5 = Column Totals: (A) (B) Prevalence Index = B/A = FACW species x 5 = Column Totals: (B) Woody Vine Stratum Total Cover: Yes No_ No_ No_ No_ Total Cover: Yes Yes Yes No_ Total Cover: Yes Yes Yes No_ Total Cover: Yes						
3. Species Across All Strata: 1					- 1 1 1 1	
Total Cover:						
Total Cover: Sabling/Shrub Stratum						(-/-)
Prevalence Index worksheet: Total % Cover of:	Total					Species . or FAC: /O/6/4 (A/B)
Total % Cover of: Multiply by:						
OBL species x1 =						
4						
FAC species x 3 =						
Total Cover: Herb Stratum	6		-	_		
Herb Stratum 1. Eleccharis magazischica 85% Yas Obt Column Totals: (A) (B)	J. Total	Cover				
1. Eleucharis warrestaches 2. Grand a chrolinate 3. Prevalence Index = B/A =	Herb Stratum				1.1	
Prevalence Index = B/A = Stacks & Stacks IS 6 No Companies Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Woody Vine Stratum 1 Indicators of hydric soil and wetland hydrology must be present. Water triangle Stratum Hydrophytic Vegetation Total Cover: Hydrophytic Vegetation Woody Vine Stratum Hydrophytic Vegetation Prevalence Index = B/A =	1. Eleccharis magnestachya				1	
15 % No Control 15 % No C	2. Colycaria declinata	_5%	_ NO_	_Old_	js	
Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)	3					
Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ** **Moody Vine Stratum** 1.	4. Sinces effects			Cbc		
Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) **Indicators of hydric soil and wetland hydrology must be present.** **Total Cover:	5. Nosturtium officianale _		NO	790		
data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and wetland hydrology must be present. Total Cover: Total Cover: Hydrophytic Vegetation Present? No						
Total Cover: Problematic Hydrophytic Vegetation¹ (Explain) 1 ¹Indicators of hydric soil and wetland hydrology must be present. Total Cover: Hydrophytic Vegetation Present? Yes No					Morphological Ada	iptations' (Provide supporting
Woody Vine Stratum 1		41.0	-			
1		Cover: 110 (a			-	priyas regerator (Expirally
be present. Total Cover: Hydrophytic					1Indicators of hydric so	il and wetland hydrology must
% Bare Ground in Herb Stratum % Cover of Biotic Crust Present? Yes No						
% Bare Ground in Herb Stratum % Cover of Biotic Crust Present? Yes No	Total (Cover:			Hydrophytic	
			int		Vegetation	- ·/
temarks:		Over or Biotic Crt	12r		rresent? Ye	s <u>y</u> No
	Remarks:					

_	_	
•	_	
-	u s	14

Sampling Point: 14c

	Matrix 0		x Features	1 . 2		
(inches) Color (m		Color (moist)			Texture	Remarks
0-14" 10 ye 3	<u> </u>	2.578 2.5/4		_ M,RC		Clay
Type: C=Concentration, ydric Soll Indicators: (_ Histosol (A1) _ Histic Epipedon (A2) _ Black Histic (A3) _ Hydrogen Sulfide (A4) _ Stratified Layers (A5) _ 1 cm Muck (A9) (LRR _ Depleted Below Dark	Applicable to all (LRR C) D)	LRRs, unless other Sandy Redo Stripped Ma Loamy Muck Loamy Gley Depleted Ma	x (S5) trix (S6) cy Mineral (F1) ed Matrix (F2) trix (F3)		Indicators 1 cm M 2 cm M Reduce	nel, M=Matrix. for Problematic Hydric Soils³: luck (A9) (LRR C) luck (A10) (LRR B) ad Vertic (F18) urent Material (TF2) Explain in Remarks)
_ Depleted Below Dark _ Thick Dark Surface (A		Redox Depre				
Sandy Mucky Mineral Sandy Gleyed Matrix ((S1)	Vernal Pools				of hydrophytic vegetation and hydrology must be present.
					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	nyarology maar 20 prosent.
Restrictive Layer (if pres	,.					
Restrictive Layer (if present the Type:	,	_				
Restrictive Layer (if press Type: Depth (inches): Remarks:				27 	Hydric Soil i	Present? Yes No
Type: Depth (inches):				2	Hydric Soil F	Present? Yes No
Type: Depth (inches): Remarks:						
Type: Depth (inches): Remarks: /DROLOGY /etland Hydrology Indica	itors:	ient)			Second	Present? Yes No
Type:	ntors: indicator is sufficeriverine) (Nonriverine)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh	(B12) Intebrates (B13) Intebrates (B13) Intebrates (B13) Interpretation	g Living Roots C4)	Second Wa Sec Dri Dra Dry (C3) Thi Cra	lary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) /-Season Water Table (C2) n Muck Surface (C7) nyfish Burrows (C8)
Type:	ntors: indicator is sufficeriverine) (Nonriverine) nriverine) s) erial imagery (B7)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron	(B12) rtebrates (B13) ulfide Odor (C1) izospheres alon	g Living Roots C4)	Second Wa	lary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) r-Season Water Table (C2) n Muck Surface (C7) nyfish Burrows (C8) curation Visible on Aerial Imagery (C9 allow Aquitard (D3)
Type:	ntors: indicator is sufficeriverine) (Nonriverine) nriverine) s) erial imagery (B7)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron	(B12) Intebrates (B13) Intebrates (B13) Intebrates (B13) Interes alon Interes alon Interes (B13) Int	g Living Roots C4)	Second Wa See Dri Dra Dry (C3) Thi Cra) Sat Sha	lary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) r-Season Water Table (C2) n Muck Surface (C7) syfish Burrows (C8) uration Visible on Aerial Imagery (C8)
Type:	ntors: indicator is suffice riverine) (Nonriverine) nriverine) (S) erial imagery (B7)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron	(B12) Intebrates (B13) Intebrates (B13) Interpretation (C1) Izospheres alon Reduced Iron (C1) Reduction in Plantin in Remarks)	g Living Roots C4)	Second Wa See Dri Dra Dry (C3) Thi Cra) Sat Sha	lary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) r-Season Water Table (C2) n Muck Surface (C7) nyfish Burrows (C8) curation Visible on Aerial Imagery (C9 allow Aquitard (D3)
Type:	riverine) (Nonriverine) (Nonriverine) (S) (Priverine) (S) (Priverine) (S) (Priverine) (Pri	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Other (Expla	(B12) Intebrates (B13) Intebrates (B13) Interpretation (C1) Izospheres alon Reduced Iron (C1) Reduction in Plain in Remarks) es):	g Living Roots C4) owed Soils (C6	Second Was Second Seco	lary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) r-Season Water Table (C2) n Muck Surface (C7) nyfish Burrows (C8) curation Visible on Aerial Imagery (C9 allow Aquitard (D3)
Type:	riverine) (Nonriverine) (Nonriverine) (S) (Priverine) (S) (Priverine) (S) (Priverine) (Pri	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Other (Expla	(B12) Intebrates (B13) Intebrates (B13) Interpretation (C1) Izospheres alon Reduced Iron (C1) Reduction in Plain in Remarks) es):	g Living Roots C4) owed Soils (C6	Second Was Second Seco	lary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) v-Season Water Table (C2) n Muck Surface (C7) nyfish Burrows (C8) curation Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
Type:	riverine) (Nonriverine) (Nonriverine) (S) (Priverine) (S) (Priverine) (S) (Priverine) (Pri	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Other (Expla	(B12) Intebrates (B13) Intebrates (B13) Interpretation (C1) Izospheres alon Reduced Iron (C1) Reduction in Plain in Remarks) es):	g Living Roots C4) owed Soils (C6	Second Was Second Seco	lary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) v-Season Water Table (C2) n Muck Surface (C7) nyfish Burrows (C8) curation Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
Type:	riverine) (Nonriverine) (Nonriverine) (S) (Priverine) (S) (Priverine) (S) (Priverine) (Pri	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Other (Expla	(B12) Intebrates (B13) Intebrates (B13) Interpretation (C1) Izospheres alon Reduced Iron (C1) Reduction in Plain in Remarks) es):	g Living Roots C4) owed Soils (C6	Second Was Second Seco	lary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) v-Season Water Table (C2) n Muck Surface (C7) nyfish Burrows (C8) curation Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)

Project/Site: Novth County County		City/Cou	nty:	anislaus	_ Sampling Date:	4/15/201
Applicant/Owner: Stanislaus County				State: CA	_ Sampling Point:	and the second second
Investigator(s): MIKE Truch over Daynal	Dinchel	Section,	Township, F	Range:		
Landform (hillslope, terrace, etc.):						pe (%);
Subregion (LRR):						
Soil Map Unit Name:			nion ger n	NWI classifi		111104 1111
Are climatic / hydrologic conditions on the site typical for the			X No			
Are Vegetation, Soil, or Hydrology				"Normal Circumstances"	/	No
Are Vegetation, Soil, or Hydrology				needed, explain any answe		110
SUMMARY OF FINDINGS – Attach site map						atures, etc.
Hydrophytic Vegetation Present? Yes	1			- Lon Villain	/	Della Co
Hydric Soil Present? Yes N	No		the Sample thin a Wetla		No V	
Wetland Hydrology Present? Yes	10	T. F. W.	um a weu	andr tes	NO_ <u>V</u>	
VEGETATION	- Govern	ponor				
	Absolute	Domina	nt Indicator	Dominance Test work	sheet:	11 5
Tree Stratum (Use scientific names.) 1	% Cover	Species	? Status	Number of Dominant S That Are OBL, FACW,	pecies A	(A)
2				Total Number of Domin Species Across All Stra		(B)
4			H	Percent of Dominant Sp		
Sapling/Shrub Stratum Total Cover	· ——			That Are OBL, FACW,	or FAC:	(A/B)
1.			H H	Prevalence Index work	ksheet:	
2				Total % Cover of:	Multiply	by:
3				OBL species		
4.	11			FACW species		
5.				FAC species	Will be De-	
Herb Stratum Total Cover	:			FACU species		
1. Hordummarinum var guspisenum	15	No	Fac	UPL species		
2. Frodum botrys	20	Yes	UPL.	Column Totals:	(A)	(B)
3. Bromus hordenceus	25	Yes	FACU	Prevalence Index	= B/A =	
1. Amsinkia menzezlii	10	No	UPL	Hydrophytic Vegetatio	n indicators:	Male M
5. Hordeum murinum lepacielum	10	NO	FACU	Dominance Test is		
6.				Prevalence Index is		
			-	Morphological Adap	otations' (Provide s or on a separate s	upporting heet)
3	85			Problematic Hydrop	•	,
Total Cover: Noody Vine Stratum	00					Lingiad
	<u> </u>		<u> </u>	¹ Indicators of hydric soil	and wetland hydrol	logy must
				be present.		all s =Y
Total Cover: 6 Bare Ground in Herb Stratum / 5 % Cover	of Biotic Cru	ust		Hydrophytic Vegetation Present? Yes	No V	/
Remarks:				163		
						11 5/1
						8 7

OIL Profile Description: (Describe to the	depth needed to document the indicator	r or confirm the charm	Sampling Point:
Depth Matrix		r or confirm the absen	ce of indicators.)
(inches) Color (moist) %	Redox Features Color (moist) % Type ¹	Loc ² Texture	Remarks
D-8" 7.5 TR 314 90	254R310 10 C	M	wan
7372 377 10	<u> </u>		Joann
			-
		·	
			
<u> </u>			
Type: C=Concentration, D=Depletion,		re Lining, RC=Root Cha	nnel, M=Matrix.
lydric Soil Indicators: (Applicable to	all LRRs, unless otherwise noted.)		s for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	1 cm	Muck (A9) (LRR C)
_ Histic Epipedon (A2)	Stripped Matrix (S6)		Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F1)		ced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		Parent Material (TF2)
Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D)	Depleted Matrix (F3)	Othe	r (Explain in Remarks)
Depleted Below Dark Surface (A11)	Redox Dark Surface (F6)Depleted Dark Surface (F7)		
Thick Dark Surface (A12)	Redox Depressions (F8)		
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	3Indicator	s of hydrophytic vegetation and
_ Sandy Gleyed Matrix (S4)			d hydrology must be present.
estrictive Layer (if present):			
contours and or the property.			
Туре:			
		Hydric So	il Present? Yes No X
Type:	tinsoil.	Hydric So	I Present? Yes No X
Type:	tinsol.	Hydric So	Present? Yes No X
Type: Depth (inches): emarks:	tin soil.	Hydric So	I Present? Yes No X
Type:	tin soil.		ndary Indicators (2 or more required)
Type:		Seco	
Type:		Seco	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine)
Type:	ufficient)	<u>Seco</u> \	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Type:	ufficient) Salt Crust (B11)	Seco \ S	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine)
Type:	ufficient) Salt Crust (B11) Biotic Crust (B12)	Seco 	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Type:	ufficient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Seco 	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Oriff Deposits (B3) (Riverine) Orainage Patterns (B10)
Type:	ufficient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Seco	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2)
Type:	ufficient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I	Seco	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8)
Type:	ufficient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4) Recent Iron Reduction in Plowe	Seco	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8)
Type:	ufficient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4) Recent Iron Reduction in Plowe	Seco	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Catalon Active (C3)
Type:	ufficient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4) Recent Iron Reduction in Plowe	Seco	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C
Type:		Seco	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Catallow Aquitard (D3)
Type:	ufficient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4 Recent Iron Reduction in Plower (Explain in Remarks) No Depth (inches):	Seco	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Catallow Aquitard (D3)
Type:	ufficient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along L Presence of Reduced Iron (C4 Recent Iron Reduction in Plowe (B7) Other (Explain in Remarks) No Depth (inches):	Seco	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Cathallow Aquitard (D3) AC-Neutral Test (D5)
Type:	ufficient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4 Recent Iron Reduction in Plowe (B7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):		ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Catallow Aquitard (D3)
Type:	ufficient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along L Presence of Reduced Iron (C4 Recent Iron Reduction in Plowe (B7) Other (Explain in Remarks) No Depth (inches):		ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Catalon Aquitard (D3) AC-Neutral Test (D5)
Type:	ufficient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4 Recent Iron Reduction in Plowe (B7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):		ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Catalon Aquitard (D3) AC-Neutral Test (D5)
Type:	ufficient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along I Presence of Reduced Iron (C4 Recent Iron Reduction in Plowe (B7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):		ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Catalon Aquitard (D3) AC-Neutral Test (D5)

2	Project/Site: North County			City/Cou	nty: 5t	anislaus	Sampling Date: 415/14
Landform (fillslope, ferrace, stc.): Local relief (conceve, convex, none): Slope (%): Subregion (LRR): Long: Datum: Subregion (LRR): Long: NWI classification: NWI cla							
Deturn: Detu	investigator(s): MIKETruchlow	df Dayna!	<u>Dinchel</u>	Section,	Township, F	Range:	
No Classification:	andform (hillslope, terrace, etc.):	en addirectiv		Local re	lief (concave	, convex, none):	Slope (%):
Soil Map Unit Name: NWI classification: NWI classification: New climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.) BUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, Hydrophydic Vegetation Present? Yes No (If needed, explain any answers in Remarks.) BUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, Hydrophydic Vegetation Present? Yes No (If needed, explain any answers in Remarks.) BUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, Hydrophydic Vegetation Present? Yes No (If needed, explain any answers in Remarks.) BUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, No (If needed, explain any answers in Remarks.) Bummary Of FINDINGS — Attach site map showing sampling point locations, transects, important features, No (If needed, explain in Remarks.) Is the Sampled Area within a Wedand? Yes No (If needed, explain in Remarks.) Absolute Openination Indicators (If needed, explain in Remarks.) Absolute Area within a Wedand? Yes No (If needed, explain in Remarks.) Absolute Area within a Wedand? Yes No (If needed, explain in Remarks.) An It would have dead at the Sampled Area within a Wedand? Yes No (If needed, explain in Remarks.) An It would have dead at the Sampled Area within a Wedand? Yes No (If needed, explain in Remarks.) An It would have dead at the Sampled Area within a Wedand? Yes No (If needed, explain in Remarks.) An It would have dead at the Sampled Area within a Wedand? Yes No (If needed, explain in Remarks.) Are Sampled Area within a Wedand? Yes No (If needed, explain in Remarks.) Are Sampled Area within a Wedand? Yes No (If needed, explain in Remarks.) Are Sampled A	Subregion (LRR):		Lat:			Long:	Datum:
ver Vegetation Soil or Hydrology significantly disturbed? Are Normal Circumstances' present? Yes No very Vegetation Soil or Hydrology naturally problematic? (if needed, explain any answers in Remarks.)				415 - 5-110 - 5-11		NWI class	ification:
ver Vegetation Soil or Hydrology significantly disturbed? Are Normal Circumstances' present? Yes No very Vegetation Soil or Hydrology naturally problematic? (if needed, explain any answers in Remarks.)	are climatic / hydrologic conditions on the	site typical for th	nis time of ye	ear? Yes	No.	(If no, explain in	Remarks.)
Summary Summ	re Vegetation, Soil, or H	ydrology	significantly	disturbed	i? Are	*Normal Circumstances	" present? Yes X No
Hydrophytic Vegetation Present? Hydric Soil Present? Westand Hydrology Present? Westand Hydrology Present? Westand Hydrology Present? Remarks: Absolute Species? Species? Status Mumber of Dominants Species That Are OBL, FACW, or FAC: Total Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species That Are OBL, FACW, or FAC: Total Scover of Multiply by OBL species 115 x1 = 1 15 FACW species 3 5 x2 = 70 FAC species 3 5 x4 = TUDDA AATOMA 70 4 BBL ATOMA 1AATOMA 70 70 70 70 70 70 70 70 70 70 70 70 70	re Vegetation, Soil, or H	ydrology	naturally pro	oblematic	? (If r	needed, explain any ansv	vers in Remarks.)
Hydrophytic Vegetation Present? Hydric Soil Present? Westand Hydrology Present? Westand Hydrology Present? Westand Hydrology Present? Remarks: Absolute Species? Species? Status Mumber of Dominants Species That Are OBL, FACW, or FAC: Total Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species That Are OBL, FACW, or FAC: Total Scover of Multiply by OBL species 115 x1 = 1 15 FACW species 3 5 x2 = 70 FAC species 3 5 x4 = TUDDA AATOMA 70 4 BBL ATOMA 1AATOMA 70 70 70 70 70 70 70 70 70 70 70 70 70	SUMMARY OF FINDINGS - Att	ach site map	showing	sampl	ing point	locations, transec	ts, important features, e
Remarks: Cover Species Status Dominance Test worksheet:	Hydrophytic Vegetation Present? Hydric Soil Present?	Yes X	No	ls	the Sample	d Area	
Absolute Stratum (Use scientific names.) Absolute Species? Status. Absolute Species? Status. 1.			<u>. </u>		22.2		
Absolute % Cover Species? Status Dominant Indicator % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC:		n Tana	-		no iii-ii		
Tree Stratum Total Cover: Spacies? Status Number of Dominant Species That Are OBL, FACW, or FAC: (2 1 1 1 1 1 1 1 1 1	EGETATION			^====	TILLIE I	ENLY SH	
Sapilina/Shrub Stratum Total Cover: Sapilina/Shrub Stratum Total Cover: Total Cov						Number of Dominant	Species (
Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 15 x1 = 16 FACW species 35 x2 = 70 FAC species 15 x1 FAC spec							/
Total Cover: That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 115 x1 = 15 FACW species 35 x2 = 70 FAC species	l-					Percent of Dominant 6	
Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 115 x1 = 165 FACW species 35 x2 = 70 FAC species x3 = FACU species x3 = FACU species x4 = UPL species 50 x5 = 200 Column Totals: 200 (A) 385 Prevalence Index = B/A = J.92 Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is \$3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Total Cover: 200 Total Cover: 4	Saoling/Shrub Stratum	Total Cove	r:				
Total % Cover of: Multiply by: OBL species 115 x1 = 15 FACW species 3 5 x2 = 70 FAC species x3 = FACU species x3 = V4 = VPL species SO x5 = ZOO Column Totals: 200 (A) 385 Prevalence Index = B/A = J-92 Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is \$3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) Total Cover: 200 Total Cover: 4 Bare Ground in Herb Stratum % Cover of Biotic Crust Present? Yes No						Prevalence Index wo	rksheet:
OBL species 115 x1 = 75 FACW species 35 x2 = 70 FAC species x3 = FACU species x4 = UPL species Column Totals: 200 (A) 385 Prevalence Index = B/A = 1.92 Hydrophytic Vegetation Indicators: Dominance Test is >500 X Prevalence Index is \$3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Total Cover: Bare Ground in Herb Stratum % Cover of Biotic Crust Hydrophytic Vegetation Total Cover: Hydrophytic Vegetation Indicators: Dominance Test is >500 X Prevalence Index is \$3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology mus be present.							PARTER NO. 12
FACW species 35 x 2 = 70 FAC species x 3 = FACU species x 4 = UPL species x 5 = 200 Column Totals: 200 (A) 385 Prevalence Index = B/A = J.92 Hydrophytic Vegetation Indicators: Dominance Test is >50% Freewards of Sicinal R Total Cover: 200 Total Cover: 200 Bare Ground in Herb Stratum % Cover of Biotic Crust FACW species 35 x 2 = 70 FAC species x 3 = FACU species x 4 = UPL species x 4 = UPL species 50 x 5 = 200 Column Totals: 200 (A) 385 Prevalence Index = B/A = J.92 Hydrophytic Vegetation Indicators: Dominance Test is >50% Freevalence Index is \$3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) **Indicators of hydric soil and wetland hydrology mus be present.** Hydrophytic Vegetation Present? Yes No						OBL species	x1= 15
Total Cover: Total Cover: Tota							
Prevalence Index = B/A = 1.92 Prevalence Index			<u> </u>				
Column Totals: 200 (A) 385 Prevalence Index = B/A = 1.92 Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is \$3.0¹ Dominance Test is >50% Prevalence Index is \$3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Total Cover: Bare Ground in Herb Stratum County Vine Stratum Total Cover: Hydrophytic Vegetation Present? Yes X No	lerb Stratum	Total Cover	:				
Prevalence Index = B/A = J.92 Prevalence Index = B/A = J.92 Hydrophytic Vegetation Indicators: Dominance Test is >50% WPI Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is \$3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and wetland hydrology mus be present. Bare Ground in Herb Stratum % Cover of Biotic Crust Present? Yes No			70	4	OBL	Column Totals: 30	$\frac{x_5 = 2x_5}{x_5}$
Prevalence Index = B/A = J.73 Leymus triticoides 50 y UP Hydrophytic Vegetation Indicators:	Juneus sp.			0	Carried State of the Control of	ACT 100 TO 11	
Dominance Test is >50% X Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology mus be present. Total Cover: Bare Ground in Herb Stratum Yes X No No			25	n			
Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) oody Vine Stratum ¹Indicators of hydric soil and wetland hydrology mus be present. Total Cover: Bare Ground in Herb Stratum **Cover of Biotic Crust** Hydrophytic Vegetation Present? Yes	. 2			4			
Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) — Problematic Hydrophytic Vegetation¹ (Explain) oody Vine Stratum 1 Indicators of hydric soil and wetland hydrology mus be present. Total Cover: Hydrophytic Vegetation Fresent? Yes No	Nasturtium officinate	= 8	45	n	<u>Obl</u>		
Total Cover: 200 Total Cover: 200 Total Cover: 200 Total Cover: 200 Indicators of hydric soil and wetland hydrology must be present. Total Cover: Hydrophytic Vegetation Total Cover: Hydrophytic Vegetation Present? Yes No No							
Total Cover: 200 Problematic Hydrophytic Vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology must be present. Total Cover: Hydrophytic Vegetation Bare Ground in Herb Stratum % Cover of Biotic Crust Present? Yes No				—	· ———	data in Remark	aptations (Provide supporting as or on a separate sheet)
Total Cover: Hydrophytic Bare Ground in Herb Stratum % Cover of Biotic Crust Present? Yes No		Total Course	200				
Bare Ground in Herb Stratum % Cover of Biotic Crust Present? Yes No	oody Vine Stratum	Total Cover:	200				
Bare Ground in Herb Stratum % Cover of Biotic Crust Hydrophytic Vegetation Present? Yes No				-28			il and wetland hydrology must
Bare Ground in Herb Stratum			=1.4= =		L V la s	pe present.	
Bare Ground in Herb Stratum % Cover of Biotic Crust Present? Yes No		Total Cover:	A 2				Δ.
emarks:	Bare Ground in Herb Stratum	% Cover	of Biotic Cru	ust	<u> </u>		es No
	emarks:	31	Fices		er Fireni	n all	ni i ju jaje i
e The main the second of the s	The state of the state of						
	e The main						

3	U	L

		IC'	
Sampling	Point:	9	

Depth Matrix	Redox Features		
(inches) Color (moist) %	Color (moist) % Type ¹	Loc ² Texture	Remarks
0.14 104R3/1 100			_ Clan - mucky
) "***
Type: C=Concentration, D=Depletion, RM=Re		ning, RC=Root Chan	nel, M=Matrix.
Hydric Soil Indicators: (Applicable to all LR	Rs, unless otherwise noted.)	indicators	for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	1 cm l	Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S6)		Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F1)		ed Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		arent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)		(Explain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6)	Culor	(Explain in Nemarks)
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)		
Thick Dark Surface (A12)	Redox Depressions (F8)		
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	3 _{Ind} ianta-	of husbank, dia us a station and
Sandy Gleyed Matrix (S4)	vernar roots (r s)		of hydrophytic vegetation and
Restrictive Layer (if present):		wedand	hydrology must be present.
Туре:		10	- ×
Depth (inches):		Hydric Soil	Present? Yes No
Pamarke:			
Pamarke:	Dosifix redux identi		
Remarks: Soils too wet for	positive redux identi	FICATION. How	ever adjacent mas some
Remarks: Soils too wet for	positive redux identi me redex is present but Too	FICATION. How	ever adjacent mas some
Remarks: Soils too wet for	posific redux idention redux is present but Too	FICATION. How	ever adjacent mas some
SOILS too wet for areas show redex. Assu	positive redux idention redux is present but to	FICATION. How	ever adjacent mas some
SOILS too wet for areas show redex. Assu	positive redux idention redux is present but to	fication, How o net to iden	ever, adjacent more seasonal
SOILS too wet for areas show redex. Assurted to Assure the Assurted to Assure the Assure the Assure to Assure the	me redex is present but Too	fication, How o net To iden	ever, adjacent more seasonal
Soils too wet for areas show redex. Assumed to the show redex areas show redex. Assumed to the showing	m redex is present but To	fication, How o net To iden	ever, adjacent more seasonal
SOILS too wet for areas show redex. Assurted to Assure the Assurted to Assure the Assure the Assure to Assure the	me redex is present but Too	fication. How o net to iden Secon	ever, adjacent more seasonal K.S.y dary Indicators (2 or more required) later Marks (B1) (Riverine)
SOILS too wet for areas show redex. Assumed to the show redex. Assumed to the show redex areas show redex. Assume the showing	m redex is present but To	fication. How o next To iden Secon W Se	dary indicators (2 or more required) rater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine)
Soils too wet for areas show redex. Assu YDROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicator is sufficient Surface Water (A1) High Water Table (A2)) Salt Crust (B11) Biotic Crust (B12)	fication, How o net To reden Secon W Secon D	dary indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) iff Deposits (B3) (Riverine)
SOILS too wet for awas show redex. Assu (DROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicator is sufficient Surface Water (A1) High Water Table (A2) Saturation (A3)) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)	Secon Secon Di Di	dary indicators (2 or more required) rater Marks (B1) (Riverine) rediment Deposits (B2) (Riverine) rainage Patterns (B10)
TOROLOGY Tetland Hydrology Indicators: rimary Indicators (any one indicator is sufficient Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Secon Secon Di Di	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) iff Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2)
Remarks: SOILS to wet for areas show redex. Assumed to the show redex. As	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living	Secon Secon W So Di Do g Roots (C3)	dary Indicators (2 or more required) dater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) dinage Patterns (B10) y-Season Water Table (C2) din Muck Surface (C7)
Port Semarks: Soils to wet for areas show redex. Assumed to the semantial shows a show redex. As a s	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4)	Secon Secon Di Roots (C3)	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) iff Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2)
Soils too wet for areas show redex. Assumed to a show redex. As a show redex	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living	Secon Secon Di Roots (C3) Tr Cr	dary Indicators (2 or more required) dater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) dinage Patterns (B10) y-Season Water Table (C2) din Muck Surface (C7)
Remarks: SOILS to wet for areas show redex. Assorted to the state of the second to t	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4)	Secon Secon W Si Di Di Di GROOTS (C3) Th Ci Coils (C6) Si	dary indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) tturation Visible on Aerial Imagery (C9)
Remarks: SOILS to wet for areas show redex. Assorting the state of t	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed S	Secon Secon W Si Di Di Di Cr Cr Cr Cr Cr Cr Cr C	dary indicators (2 or more required) rater Marks (B1) (Riverine) rater Deposits (B2) (Riverine) ratinage Patterns (B10) ry-Season Water Table (C2) riin Muck Surface (C7) rayfish Burrows (C8) rituration Visible on Aerial Imagery (C9) rallow Aquitard (D3)
Remarks: SOILS to wet for areas show redex. Assured and show redex. Assured	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed S	Secon Secon W Si Di Di Di Cr Cr Cr Cr Cr Cr Cr C	dary indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) tturation Visible on Aerial Imagery (C9)
Port of the second of the seco	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed S Other (Explain in Remarks)	Secon Secon W Si Di Di Di Cr Cr Cr Cr Cr Cr Cr C	dary indicators (2 or more required) rater Marks (B1) (Riverine) rater Deposits (B2) (Riverine) ratinage Patterns (B10) ry-Season Water Table (C2) riin Muck Surface (C7) rayfish Burrows (C8) rituration Visible on Aerial Imagery (C9) rallow Aquitard (D3)
Proposits (B2) (Nonriverine) Surface Soil Cracks (B6) Linundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Linundation Signal of the Marker (B9) Linundation Signal of t	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed S Other (Explain in Remarks)	Secon Secon W Si Di Di Di Cr Cr Cr Cr Cr Cr Cr C	dary indicators (2 or more required) rater Marks (B1) (Riverine) rater Deposits (B2) (Riverine) ratinage Patterns (B10) ry-Season Water Table (C2) riin Muck Surface (C7) rayfish Burrows (C8) rituration Visible on Aerial Imagery (C9) rallow Aquitard (D3)
Proposits (B2) (Nonriverine) Surface Soil Cracks (B6) Linundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Linundation Signal of the Marker (B9) Linundation Signal of t	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed S Other (Explain in Remarks)	Secon Secon W Si Di Di Di Cr Cr Cr Cr Cr Cr Cr C	dary indicators (2 or more required) rater Marks (B1) (Riverine) rater Deposits (B2) (Riverine) ratinage Patterns (B10) ry-Season Water Table (C2) riin Muck Surface (C7) rayfish Burrows (C8) rituration Visible on Aerial Imagery (C9) rallow Aquitard (D3)
Remarks: SOILS to wet for areas show redex. Asso POROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicator is sufficient Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) eld Observations: urface Water Present? Yes No ater Table Present?	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed S Other (Explain in Remarks) Depth (inches): J-3' Depth (inches): Suifice	Secon Secon W Si Di Di g Roots (C3) Th coils (C6) Si FA	dary indicators (2 or more required) dater Marks (B1) (Riverine) deliment Deposits (B2) (Riverine) dianage Patterns (B10) dy-Season Water Table (C2) din Muck Surface (C7) dayfish Burrows (C8) dituration Visible on Aerial Imagery (C9) dallow Aquitard (D3) dec-Neutral Test (D5)
Remarks: SOILS to wet for areas show redex. Asso YOROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicator is sufficient Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) eld Observations: urface Water Present? yes No ater Table Present? Yes No cludes capillary fringe)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed S Other (Explain in Remarks) Depth (inches): Jufgel Depth (inches): Surface	Secon Secon Wetland Hydrology	dary indicators (2 or more required) dater Marks (B1) (Riverine) deliment Deposits (B2) (Riverine) dianage Patterns (B10) dy-Season Water Table (C2) din Muck Surface (C7) dayfish Burrows (C8) dituration Visible on Aerial Imagery (C9) dallow Aquitard (D3) dec-Neutral Test (D5)
Remarks: SOILS to wet for areas show redex. Assorted and show redex.	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed S Other (Explain in Remarks) Depth (inches): Jufgel Depth (inches): Surface	Secon Secon Wetland Hydrology	dary indicators (2 or more required) dater Marks (B1) (Riverine) deliment Deposits (B2) (Riverine) dianage Patterns (B10) dy-Season Water Table (C2) din Muck Surface (C7) dayfish Burrows (C8) dituration Visible on Aerial Imagery (C9) dallow Aquitard (D3) dec-Neutral Test (D5)
Proposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water Table Leaves (B9) Surface Water (Parameter (B9) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water Stained Leaves (B9) Water Water Present? Water Table Present? Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed S Other (Explain in Remarks) Depth (inches): Jufgel Depth (inches): Surface	Secon Secon Wetland Hydrology	dary indicators (2 or more required) dater Marks (B1) (Riverine) deliment Deposits (B2) (Riverine) dianage Patterns (B10) dy-Season Water Table (C2) din Muck Surface (C7) dayfish Burrows (C8) dituration Visible on Aerial Imagery (C9) dallow Aquitard (D3) dec-Neutral Test (D5)
POROLOGY Vetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Vetaged Observations: Urface Water Present? Ves No Notaturation Present? Yes No Posturation P	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed S Other (Explain in Remarks) Depth (inches): Jufgel Depth (inches): Surface	Secon Secon Wetland Hydrology	dary indicators (2 or more required) dater Marks (B1) (Riverine) deliment Deposits (B2) (Riverine) dianage Patterns (B10) dy-Season Water Table (C2) din Muck Surface (C7) dayfish Burrows (C8) dituration Visible on Aerial Imagery (C9) dallow Aquitard (D3) dec-Neutral Test (D5)
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PROLOGY Vetland Hydrology Indicators: Immary Indicators (any one indicator is sufficient Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) eld Observations: urface Water Present? Yes No atter Table Present? Yes No Auturation Present? Yes Auturation Present? Yes No Auturation Present? Y	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed S Other (Explain in Remarks) Depth (inches): Jufgel Depth (inches): Surface	Secon Secon Wetland Hydrology	dary indicators (2 or more required) dater Marks (B1) (Riverine) deliment Deposits (B2) (Riverine) dianage Patterns (B10) dy-Season Water Table (C2) din Muck Surface (C7) dayfish Burrows (C8) dituration Visible on Aerial Imagery (C9) dallow Aquitard (D3) dec-Neutral Test (D5)
PROLOGY Vetland Hydrology Indicators: Immary Indicators (any one indicator is sufficient Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) eld Observations: urface Water Present? Yes No atter Table Present? Yes No Auturation Present? Yes Auturation Present? Yes No Auturation Present? Y	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed S Other (Explain in Remarks) Depth (inches): Jufgel Depth (inches): Surface	Secon Secon Wetland Hydrology	dary indicators (2 or more required) dater Marks (B1) (Riverine) deliment Deposits (B2) (Riverine) dianage Patterns (B10) dy-Season Water Table (C2) din Muck Surface (C7) dayfish Burrows (C8) dituration Visible on Aerial Imagery (C9) dallow Aquitard (D3) dec-Neutral Test (D5)

Project/Site: North County Corrido	~	City/Count	y: 5to	anislaus	Sampling Date: 4/5/20
Applicant/Owner: Stanislaus County					
Investigator(s): MIKETYUEDIOOd/Dans Wi	nchell	Section, T	ownship, R	ange:	THE PERSON OF THE STATE OF THE
Landform (hillslope, terrace, etc.):					
Subregion (LRR):					
Soil Map Unit Name:					
Are climatic / hydrologic conditions on the site typical for					
Are Vegetation, Soil, or Hydrology					present? Yes X No
Are Vegetation, Soil, or HydrologyX				eeded, explain any answ	
SUMMARY OF FINDINGS – Attach site ma					
Hydrophytic Vegetation Present? Yes X	No		in in in		
Hydric Soil Present? Yes X			he Sample hin a Wetla		No
Wetland Hydrology Present? Yes X	No	iin a u	iii a vvotie	163 <u> </u>	180 (01)
Remarks:			3 5 8		n de Western
VEGETATION					
TOTALION .	Absolute	Dominant	Indicator	Dominance Test work	kehaat:
Tree Stratum (Use scientific names.)		Species?		Number of Dominant S	
1.		117		That Are OBL, FACW,	
2.				Total Number of Domin	nant
3.				Species Across All Stra	
4				Percent of Dominant S	pecies
Sapling/Shrub Stratum	er:			That Are OBL, FACW,	
1				Prevalence Index wor	rksheet:
2				Total % Cover of:	Multiply by:
3.				OBL species 37	x1= 37
4.				FACW species	x 2 =
5					x3= 45
	er:			FACU species	
1. <u>Srisching</u> histum	~	_NO_	(10)		x5= <u>2S</u>
1. <u>Srificlium hirtum</u> 2. <u>Minulus guttatus</u>	3	he	Obb	Column Totals: 10	(A) <u>187</u> (B)
3. Rundy crisque	15_	no	Fac	Prevalence Index	x = B/A = 2.8
4. Glycarta declinata	30	Yes	ObL	Hydrophytic Vegetation	
5. Festuca peranns	30	Yes	Facu	Dominance Test is	
6. Plantaco lancicolata	10	No	Facu	X Prevalence Index i	s ≤3.0 ¹
7. Brems hardeacers	<u> </u>	NO	Facu	Morphological Ada	ptations ¹ (Provide supporting
8.	<u> </u>		Th		s or on a separate sheet)
Total Cove	r:_102_			Problematic Hydro	phytic Vegetation ¹ (Explain)
Woody Vine Stratum				1	
1		=======================================		be present.	il and wetland hydrology must
2					
Total Cove	r:	380		Hydrophytic Vegetation	
% Bare Ground in Herb Stratum % Cove	r of Biotic Cr	ust	<u> </u>	Present? Yes	s <u>X</u> No
Remarks:	THE I				

D	cription. (Describe	to the dept	th needed to docu	ument the	indicator	or confirm	the absence	of indicators.)
Depth	Matrix			lox Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc²	<u>Texture</u>	Remarks
0-10"	1040 3/1	40	7.54R 5/6	10		M	VDW	Sanuy Clay
							V _{e,g}	
				V				
	oncentration, D=Deple			² Location	n: PL=Pore	e Lining, RC	C=Root Chann Indicators	el, M=Matrix. for Problematic Hydric Soils³:
Histosol	· · · · · · · · · · · · · · · · · · ·		Sandy Red	lox (S5)			1 cm M	uck (A9) (LRR C)
	pipedon (A2)		Stripped M				2 cm M	uck (A10) (LRR B)
_	istic (A3)		Loamy Muc	-				ed Vertic (F18)
	en Sulfide (A4) d Layers (A5) (LRR C)	, ==	Loamy Gle	_	(F2) .			rent Material (TF2)
1 cm Mu Depleted	ick (A9) (LRR D) d Below Dark Surface		Depleted M _X Redox Dark Depleted D	k Surface (ark Surfac	e (F7)		Other (E	Explain in Remarks)
	ark Surface (A12)		Redox Dep		F8)		•	
	lucky Mineral (S1)		Vernal Poo	ls (F9)			"Indicators o	of hydrophytic vegetation and
	ileyed Matrix (S4)							hydrology must be present.
lestrictive L	ayer (if present):	h =						
Restrictive L Type:	ayer (if present):						wetland h	nydrology must be present.
Restrictive L	ayer (if present):			*				nydrology must be present.
Type: Depth (included in the control of the co	Cayer (if present): Ches): Ches): Ches): Ches): Ches): Ches (AY) Ches (AN) Ches		Salt Crust Biotic Crus Aquatic Inv	st (B12) vertebrates			Second Was Second Second Second Second Second	Present? Yes X No
Type: Depth (included) Type: Depth (included) Type: Compared) Type: Compared) Type: Compared) Type:	GY Irology Indicators: ators (any one indicate Water (A1) er Table (A2)	9)	Salt Crust Biotic Crus Aquatic In	st (B12) vertebrates Sulfide Od	or (C1)	iving Roots	Second Was Second Was Second Drift X Dra	lary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) r-Season Water Table (C2)
Type: Depth (included) Type: Depth (included) Type: Commarks: TOROLOG Vetland Hyd rimary Indice Surface \ High Wal Saturatio Water Ma Sediment	GY Irology Indicators: ators (any one indicator Vater (A1) er Table (A2) n (A3) arks (B1) (Nonriverine	e) iverine)	Salt Crust Biotic Crus Aquatic In	st (B12) vertebrates Sulfide Od Rhizospher	or (C1) es along L	iving Roots	Second War See Drit X Dra C(C3) Thi	Present? Yes X No
Type: Depth (included in the content of the c	Ches):	e) iverine) e)	Salt Crust Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence of	st (B12) vertebrates Suffide Od Rhizosphero of Reduced	or (C1) es along L d Iron (C4)		Second Second Wa Sec Drit Dry (C3) Thi Cra	lary Indicators (2 or more required) ster Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) r-Season Water Table (C2) n Muck Surface (C7)
Type: Depth (included in the content of the c	Ches):	e) iverine) e)	Salt Crust Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence of	st (B12) vertebrates Sulfide Od Rhizosphere of Reduced n Reductio	or (C1) es along L d Iron (C4) in in Plowe	U.S.	Second Second Second Drit Dry (C3) Thin Cra Sat	lary Indicators (2 or more required) ster Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) syfish Burrows (C8)
Type:	Ches):	e) iverine) e)	Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized R Presence o	st (B12) vertebrates Sulfide Od Rhizosphere of Reduced n Reductio	or (C1) es along L d Iron (C4) in in Plowe	U.S.	Second Second Second Drit Dry (C3) Thin Cra Sat Sha	lary Indicators (2 or more required) atter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) r-Season Water Table (C2) n Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (CS)
Type:	Cayer (if present): Ches): C	e) iverine) e) agery (B7)	Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Other (Exp	st (B12) vertebrates Sulfide Od thizosphere of Reduced n Reductio	or (C1) es along L d Iron (C4) in in Plowe narks)	U.S.	Second Second Second Drit Dry (C3) Thin Cra Sat Sha	lary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) r-Season Water Table (C2) n Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (CS allow Aquitard (D3)
Type:	Ches):	e) iverine) ie) agery (B7)	Salt Crust Biotic Crust Aquatic Inv Hydrogen in Oxidized Recent Iron County Cruster (Exp	st (B12) vertebrates Sulfide Od thizosphero of Reduced on Reductio clain in Rer	or (C1) es along L d Iron (C4) in in Plowe narks)	U.S.	Second Second Second Drit Dry (C3) Thin Cra Sat Sha	lary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) r-Season Water Table (C2) n Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (CS allow Aquitard (D3)
Type:	ches):	e) iverine) e) agery (B7)	Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Other (Exp	st (B12) vertebrates Sulfide Od thizospher of Reduced n Reductio clain in Rer	or (C1) es along L d Iron (C4) in in Plowe narks)	ed Soils (C6	Second Second Second Second Drit Dry Cra Cra Sat FAC	lary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) r-Season Water Table (C2) n Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (CS allow Aquitard (D3)
Type: Depth (incomments: Perth (incomments:	ches):	e) iverine) ie) agery (B7)	Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Other (Exp Depth (inc	st (B12) vertebrates Sulfide Od thizosphero of Reduced on Reductio clain in Rer ches):	or (C1) es along L d Iron (C4) in in Plowe marks) ** ** ** ** ** ** ** ** ** ** ** ** *	ed Soils (C6	Second Second Wa Sec Drit X Dra Cra Cra Sha FAC	lary Indicators (2 or more required) ster Marks (B1) (Riverine) diment Deposits (B2) (Riverine) diment Deposits (B3) (Riverine) ainage Patterns (B10) /-Season Water Table (C2) in Muck Surface (C7) syfish Burrows (C8) turation Visible on Aerial Imagery (C8 allow Aquitard (D3) C-Neutral Test (D5)

		ty/County:	anusaus Sampling Date: 4/1	5114
Applicant/Owner: Stanislaus County	Land Service of	341	State: CA Sampling Point: \5	
Investigator(s): MIKETYUE HOODEDayna	Winchells	ection, Township, F	lange:	7
Landform (hillslope, terrace, etc.):	L	ocal relief (concave	, convex, none): Slope (9	%):
Subregion (LRR):				
Soil Map Unit Name:			NWI classification:	
Are climatic / hydrologic conditions on the site typical for	this time of year'	? Yes X No.	(If no, explain in Remarks.)	
Are Vegetation, Soil, or Hydrology	significantly dis	sturbed? Are	"Normal Circumstances" present? Yes	No
Are Vegetation, Soil, or HydrologyX			needed, explain any answers in Remarks.)	.,,,,
SUMMARY OF FINDINGS – Attach site ma				res, ef
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No	is the Sample		rii i
remarks: Upland hillock		aller co		
VEGETATION	Abachta D	ominant Indicator	In Signal San	8 = 1
Tree Stratum (Use scientific names.) 1	% Cover S	pecies? Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:	_ (A)
2			Total Number of Dominant Species Across All Strata:	(B)
4. <u>199 - 199 - 199 - 199 - 199 - 199</u>		88 A D 2		_ (0)
Total Covi Sapling/Shrub Stratum	er:		Percent of Dominant Species That Are OBL, FACW, or FAC:	_ (A/B)
Saping/Strub Stratum 1			Prevalence Index worksheet:	B III
2			Total % Cover of: Multiply by:	
3.			OBL species x 1 =	_
			FACW species x 2 =	
5. <u>*** </u>	<u> </u>		FAC species x 3 =	
	er:		FACU species x 4 =	_
1. Novalum munnum legeriden	00	1 UPL	UPL species x 5 =	
hordium mannum cussiments	20 n		Column Totals: (A)	(B)
home hordeaces	$-\frac{1}{15}$		Prevalence Index = B/A =	
Trifolium hiretur	30 4	UPL	Hydrophytic Vegetation Indicators:	
Rumex CASON a	2 V	FAL	Dominance Test is >50%	
			Prevalence Index is ≤3.0¹	
			Morphological Adaptations¹ (Provide suppo	orting
ESTIN_ 19	man a sair i	_ DH 5	data in Remarks or on a separate sheet	
Total Cove	127	d =q	Problematic Hydrophytic Vegetation¹ (Expla	ain)
Voody Vine Stratum			16-45-4	
PRODUCT OF THE PROPERTY OF THE STATE OF THE		A DESCRIPTION OF THE PROPERTY	¹ Indicators of hydric soil and wetland hydrology be present.	must
Elizabeth I Si Estal Cons		# # # # # # # # # # # # # # # # # # #		
Total Cove		H 1 21	Hydrophytic Vegetation	
	r of Biotic Crust		Present? Yes No	
Remarks:				

Type:	Profile Description: (Describe to the	depth needed to docu	ment the indicato	r or confirn	n the absence	of indicators.)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix. Location: PL=Pore Lining, RC=Root Channel, M=Matrix. Indicators for Problematic Hydric Soils?: Histoso (A1)					_	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ^2Location: PL=Pore Lining, RC=Root Channel, M=Matrix. Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*: Histosoi (A1) Sandy Redox (S5) 1 cm Musk (A8) (LRR C) 2 cm Musk (A10) (LRR B) Bitack Histis (A3) Learny Mucky Mineral (F1) Reduced Vertic (F18) Packused Vertic (F18) Reduced Vertic (F18) Packused Vertic (Loc	lexture	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	U 9 107E 3/2 (1	15 TK 3/0	<u> </u>	<u> </u>	<u> </u>	Sirayclay
Histosol (A1)						
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A1) Histosol (A1) Histosol (A2) Black Histic (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Bark Surface (F3) Depleted Boark Surface (F1) Thick Dark Surface (A112) Redox Dark Surface (F1) Thick Dark Surface (A112) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Wetland Hydrology must be present. Wetland Hydrology must be present. Wetland Hydrology Indicators: Wetland Hydrology Indicators: Wetland Hydrology Indicators (S2 or more required) Infinity Mater Table (A2) Blotic Crust (B12) High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13) Mater Marks (B1) (Monriverine) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) (Nonriverine) Drivesaco Nater Table (C2) Sediment Deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) Surface Water Marks (B1) (Monriverine) Presence of Reduced Iron (C4) Surface Water Statis (B3) Control of Present? Presence of Reduced Iron (C4) Surface Water Narks (B3) (Nonriverine) Surface Water Present? Pess No X Depth (Inches): 7 4" Wetland Hydrology Present? Yes No X Depth (Inches): 7 4" Wetland Hydrology Present? Yes No X Depth (Inches): 7 4" Wetland Hydrology Present? Yes No X Depth (Inches): 7 4" Wetland Hydrology Present? Yes No X Depth (Inches): 7 4" Wetland Hydrology Present? Yes No X Depth (Inches): 7 4" Wetland Hydrology Present? Yes No X Depth (Inches): 7 4" Wetland Hydrology Present? Yes No X Depth (Inches): 7 4" Wetland Hydrology Present? Yes No X Depth (Inches): 7 4" Wetland Hydrology Present? Yes No X Depth (Inches): 7 4" Wetland Hydrology Present? Yes No X Depth (Inches): 7 4" Wetland Hydrology Present? Yes No X Depth (Inches): 7 4" Wetland Hydrology Present? Yes No X Depth (
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 Mucky Mineral (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depieted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depieted Below Dark Surface (A11) Depieted Dark Surface (F6) Depieted Below Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Pandicators of hydrophysic vegetation and wetland hydrology must be present. Reterrictive Layer (if present): Type: Depit (inches): Hydric Soil Present? Yes No Pettand Hydrology Indicators: Inimary Indicators (any one indicator is sufficient) Surface Water (A1) Salt Crust (B12) Drift Deposits (B2) (Riverine) Surface Water (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Surface Soil (B2) (Nonriverine) Presence of Reduced Iron (C4) Dry-Season Water Table (C2) Sediment Deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Aquitated (D3) Water-Stained Leaves (B9) elid Observatione: Inface Water Present? Yes No Depth (inches): 7 4" Wetland Hydrology Present? Yes No Depth (inches): 7 4" Wetland Hydrology Present? Yes No Depth (inches): 7 4" Wetland Hydrology Present? Yes No Depth (inches): 7 4" Wetland Hydrology Present? Yes No Depth (inches): 7 4" Wetland Hydrology Present? Yes No Depth (inches): 7 4" Wetland Hydrology Present? Yes No Depth (inches): 7 4" Wetland Hydrology Present? Yes No Depth (inches): 7 4" Wetland Hydrology Present? Yes No Depth (inches): 7 4" Wetland Hydrology Present? Yes No Depth (inches): 7 4" Wetland Hydrology Present? Yes No Depth (inches): 7 4" Wetland Hydrology Present? Yes No Depth (inches): 7 4"		RM=Reduced Matrix.	² Location: PL=Pc	ore Lining, R		
Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) (LRR C) Stratified Layers (A5) (LRR D) 1 cm Muck (A9) (LRR D) Pepleted Below Dark Surface (A11) Popleted Below Dark Surface (A12) Sandy Mucky Mineral (F3) Sandy Mucky Mineral (F3) Sandy Mucky Mineral (F3) Sandy Mucky Mineral (S1) Sandy Mineral (S2) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) Surface Water Table (A2) Situation (A3) Water Marks (B1) (Nonriverine) Drift Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Sufface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (B7) Unundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Wetland Hydrology Present? Yes No X Depth (Inches): 74" Wetland Hydrology Present? Yes No X Depth (Inches): 74" Wetland Hydrology Present? Yes No X Depth (Inches): 74" Wetland Hydrology Present? Yes No X Depth (Inches): 74" Wetland Hydrology Present? Yes No X Depth (Inches): 74"						
Black Histic (A3) Loarny Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loarny 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 (F3) Depleted Below Dark Surface (A12) Depleted Dark Surface (F7) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sestrictive Layer (if present): Type:						
Hydrogen Sulfide (A4)						
Stratified Layers (A5) (LRR C)						
1 cm Muck (A9) (LRR D)	Stratified Layers (A5) (LRR C)		• • •			
Thick Dark Surface (A12)	1 cm Muck (A9) (LRR D)	Redox Dark	Surface (F6)			
Sandy Mucky Mineral (S1)						
Sandy Gleyed Matrix (S4) testrictive Layer (if present): Type:					9 8	
Proper P		Vernal Pools	i (F9)		Indicators of	of hydronhytic venetation and
TOROLOGY Secondary Indicators: Secondary Indicators (2 or more required)		143				
TOROLOGY Secondary Indicators Secondary Indicators Water Marks (B1) (Riverine)	Restrictive Layer (if present):					
/DROLOGY //etland Hydrology Indicators: rimary Indicators (any one indicator is sufficient)	Restrictive Layer (if present): Type:). 	wetland	hydrology must be present.
Secondary Indicators (2 or more required) Water Marks (B1) (Riverine)	Restrictive Layer (if present): Type: Depth (inches): Remarks:			D	wetland	hydrology must be present.
Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Sediment Deposits (B3) (Riverine) Sediment Deposits (B3) (Riverine) Drift Deposits (B3) (Riverine) Drift Deposits (B3) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Dry-Season Water Table (C2) Drift Deposits (B2) (Nonriverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Drift Deposits (B2) (Nonriverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Drift Deposits (B2) (Nonriverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Dry-Season Wa	Restrictive Layer (if present): Type: Depth (inches): Remarks: Very Mard Soil in	ofvery deep)		wetland	hydrology must be present.
Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) Saturation (A3) Sediment Deposits (B3) (Riverine) Saturation (A3) Sediment Deposits (B3) (Riverine) Saturation (A3) Sediment Deposits (B3) (Riverine) Sediment Deposits (B10) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C4) Sediment Deposits (B3) (Riverine) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C4) Sediment Deposits (B3) (Riverine) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C4) Sediment Deposits (B3) (Riverine) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C4) Sediment Deposits (B3) (Riverine) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C4) Sediment Deposits (B3) (Riverine) Sediment Deposits (B3) (Riverine) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C4) Saturation Visible on A	Restrictive Layer (if present): Type: Depth (inches): Remarks: Very Navd Soil n YDROLOGY	of very deep))	De	wetland	Present? Yes No
High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soll Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Water-Stained Leaves (B9) Recent Iron Reduction in Remarks) FAC-Neutral Test (D5) Presence of Reduced Iron (C4) Fresents Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (D3) FAC-Neutral Test (D5) Water-Stained Leaves (B9) Presents Iron Remarks Shallow Aquitard (D3) FAC-Neutral Test (D5) Water-Stained Present? Yes No X Depth (inches): 7 4" Wateration Present? Yes No X Depth (inches): 7 4" Wateration Present? Yes No X Depth (inches): 7 4" Wateration Present? Yes No X Depth (inches): 7 4" Wateration Present? Yes No X Depth (inches): 7 4" Wateration Present? Yes No X Depth (inches): 7 4" Wateration Present? Yes No X Depth (inches): 7 4" Wateration Present? Yes No X Depth (inches): 7 4" No X Depth (inches): 7 4" Wateration Present? Yes No X Depth (inches): 7 4"	Restrictive Layer (if present): Type: Depth (inches): Remarks: Very Na Va Soil N YDROLOGY Vetland Hydrology Indicators:)		Hydric Soil I	Present? Yes No
	Restrictive Layer (if present): Type: Depth (inches): Remarks: Very Mard Soil M YDROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicator is si	ufficient)			Hydric Soil I	Present? Yes No lary Indicators (2 or more required) atter Marks (B1) (Riverine)
Water Marks (B1) (Nonriverine)	Restrictive Layer (if present): Type: Depth (inches): Remarks: Very Na Valor Svoi) N PDROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicator is si	ufficient) Salt Crust (I	311)		Hydric Soil I	Present? Yes No
Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Ped Observations: Inface Water Present? Yes No Depth (inches): Attraction Present? Yes No Depth (inches): Depth (inches): Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No Could Present? Wetland Hydrology Present? Yes No Could Prese	Restrictive Layer (if present): Type: Depth (inches): Remarks: Very Na A Soi) N POROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicator is so Surface Water (A1) High Water Table (A2)	ufficient) Salt Crust (I Biotic Crust	311) (B12)		Second Water Second Sec	lary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine)
	Type:	ufficient) Salt Crust (I Biotic Crust Aquatic Inve	311) (B12) rtebrates (B13)		Second Second Second Driven	lary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10)
	Type:	ufficient) Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S	311) (B12) ortebrates (B13) ulfide Odor (C1)	Living Poots	Second Second Second Dri Dri Dry	lary Indicators (2 or more required) ster Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) r-Season Water Table (C2)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5) eld Observations: Inface Water Present? Yes No Depth (inches): Atter Table Present? Yes No Depth (inches): 74" Wetland Hydrology Present? Yes No Cludes capillary fringe)	Type:	ufficient) Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S e) Oxidized Rh	311) (B12) ortebrates (B13) ulfide Odor (C1) izospheres along		Second Water Soil I Second Water Second Dri Dri Dry S (C3) Thi	lary Indicators (2 or more required) ster Marks (B1) (Riverine) diment Deposits (B3) (Riverine) sinage Patterns (B10) r-Season Water Table (C2) n Muck Surface (C7)
Water-Stained Leaves (B9) FAC-Neutral Test (D5)	Type:	ufficient) Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S e) Oxidized Rh Presence of	311) (B12) Intebrates (B13) Ulfide Odor (C1) Izospheres along Reduced Iron (C4	4)	Second Water Soil I Second Water Second Dri Dri Dry S (C3) Thi Cra	lary Indicators (2 or more required) Inter Marks (B1) (Riverine) Idiment Deposits (B2) (Riverine) Inter Marks (B1)
eld Observations: urface Water Present? Yes No X Depth (inches): ater Table Present? Yes No Depth (inches): uturation Present? Yes No Depth (inches): Cludes capillary fringe) Wetland Hydrology Present? Yes No X Depth (inches):	Type:	ufficient) Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S B) Oxidized Rh Presence of Recent Iron	311) (B12) Intebrates (B13) Intebrates (C1) Izospheres along Reduced Iron (C4) Reduction in Plow	4)	Second Watand Wa	lary Indicators (2 or more required) ster Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) sinage Patterns (B10) r-Season Water Table (C2) n Muck Surface (C7) syfish Burrows (C8) uration Visible on Aerial Imagery (C
ater Table Present? Yes No Depth (inches): 74" Ituration Present? Yes No Depth (inches): 74" Wetland Hydrology Present? Yes No Cludes capillary fringe)	Restrictive Layer (if present): Type: Depth (inches): Remarks: Very A Sol) M Portland Hydrology Indicators: rimary Indicators (any one indicator is see 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 (ufficient) Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S B) Oxidized Rh Presence of Recent Iron	311) (B12) Intebrates (B13) Intebrates (B13) Interpretation (C1) Interpretation (C2) I	4)	Second Second Water Soil II Second Dri Dra Dry Cra Si) Sail Shail	lary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) inyfish Burrows (C8) curation Visible on Aerial Imagery (Callow Aquitard (D3)
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Project/Site: North County Cari	do * City/County: 5	stanislaus Sampling Date: 4/15/14
		State: CA Sampling Point: 15¢
Investigator(s): MIKETYUE HI ON of DOU	MAWING I Section, Township	p, Range:
		ave, convex, none): Slope (%):
		Long: Datum:
Soil Map Unit Name:		NWI classification:
Are climatic / hydrologic conditions on the site typical	I 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	X naturally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site	map showing sampling poi	int locations, transects, important features, etc
Hydrophytic Vegetation Present? Hydric Soil Present? Yes	No X Is the Sam within a W	
Wetland Hydrology Present? Yes X	No Within a Wi	edand / Yes No
area was irrigated yester	day, water Still flo	wing
E		
VEGETATION	Absolute Dominant Indicat	
<u>Tree Stratum</u> (Use scientific names.) 1.	% Cover Species? Statu	
2	<u> </u>	Total Number of Dominant Species Across All Strata: (B)
4.	di Tanan i	Percent of Dominant Species
Total Sapling/Shrub Stratum	Cover:	That Are OBL, FACW, or FAC: (A/B)
1.		Prevalence Index worksheet:
2.	di e simile d	Total % Cover of: Multiply by:
3.		OBL species x 1 =
4.	H-11-11-11-11-11-11-11-11-11-11-11-11-11	FACW species x 2 =
5.		FAC species x 3 =
Herb Stratum	Cover:	FACU species x 4 =
1. Pestica gerennis	60 LYES FAE	UPL species x5 =
Irifolium hurtum		Column Totals:(A)(B)
Electronic morrestaction	2 h Obl	Prevalence Index = B/A =
ı 0		Hydrophytic Vegetation Indicators:
		Dominance Test is >50%
S. Control of the Con		Prevalence Index is ≤3.0¹
d'are al 'e '' '' '' ''		Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
		Problematic Hydrophytic Vegetation¹ (Explain)
Total C Voody <u>Vine Stratum</u>	Cover: 117	(Explain)
		¹ Indicators of hydric soil and wetland hydrology must
_7U216 _C0	urgvii: E i ge	be present.
	Cover:	Hydrophytic
	Cover of Biotic Crust	Vegetation Present? Yes No
Remarks:		100 100
onding.		

Sampling Point: 15 C

Depth	Matrix			dox Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	
D-12"	1042 3/1	97	5TR 4/6	3_	<u>C</u>	M		sanducky
								3 (
		•					26	
								
							r.	
200								
Type: C=Con	centration, D=Dep	oletion, RM=	Reduced Matrix.	² Location	: PL=Por	e Linina. F	RC=Root Ch	annel, M=Matrix.
			LRRs, unless oth	erwise note	ed.)	1		ors for Problematic Hydric Soils ³ :
Histosol (A			Sandy Red					n Muck (A9) (LRR C)
Histic Epip	•		Stripped N					n Muck (A10) (LRR B)
Black Histi				cky Mineral	(F1)			luced Vertic (F18)
Hydrogen	Sulfide (A4)	27		yed Matrix			_	Parent Material (TF2)
_ Stratified L	ayers (A5) (LRR	C)	Depleted f	-				er (Explain in Remarks)
1 cm Muck	(A9) (LRR D)		X Redox Dai	k Surface (F6)		_	
	Below Dark Surfac	e (A11)	Depleted D	ark Surface	e (F7)			
Thick Dark	Surface (A12)		Redox Dep	pressions (F	⁻ 8)			
	cky Mineral (S1)		Vernal Poo	ls (F9)			3Indicato	rs of hydrophytic vegetation and
	yed Matrix (S4)						wetla	nd hydrology must be present.
lestrictive Lay	yer (if present):							
							1	
Туре:			_					
Depth (inche							Hydric So	oil Present? Yes X No
Depth (inche emarks:	ss):						Hydric Sc	oil Present? Yes X No
Depth (inche emarks:	es):							
Depth (inchesternarks: DROLOG) Ostiland Hydro	es):	7-1					Sec	ondary Indicators (2 or more required)
Depth (inchesternarks: /DROLOGY	os): logy Indicators: ors (any one indica	7-1	ent)	(044)			<u>Sec</u>	ondary Indicators (2 or more required) Water Marks (B1) (Riverine)
Depth (inche emarks: //DROLOGY /etland Hydro /imary Indicato // Surface Wa	os):	7-1	ent) Sait Crust			2	Sec — —	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Depth (inche emarks: /DROLOGY /etland Hydro rimary Indicato _ Surface Wa _ High Water	os):	7-1	ient) Salt Crust Biotic Crus	st (B12)			<u>Sec</u>	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Depth (inche emarks: 'DROLOG' etiand Hydro rimary Indicato Surface Wa High Water Saturation (os):	itor is suffici	ent) Salt Crust Biotic Crust Aquatic In	st (B12) vertebrates	` '		Sec ————————————————————————————————————	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
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Depth (inche Remarks: POROLOGY Vetland Hydro rimary Indicate Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposit Inundation V Water-Stain eld Observati urface Water Peater Table Presectudes capillar escribe Record	logy Indicators: ors (any one indicators (A1) Table (A2) A3) s (B1) (Nonrivering (B2) (Nonrivering (B3) (Nonrivering (B3	ne) riverine) nagery (B7) s _ X _ No	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Other (Exp	st (B12) vertebrates Sulfide Odo Rhizosphere of Reduced in Reduction clain in Rem ches):	or (C1) es along L Iron (C4) n in Plowe narks)	ed Soils (C	Sec	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Popth (inche Remarks: YDROLOGY Yetland Hydro Yetland Hydro Yetland Hydro Yetland Hydro Surface Water Mark Sediment D Drift Deposit Surface Soil Inundation Water-Stain eld Observation Inter Table Present of the Present o	logy Indicators: ors (any one indicater (A1) Table (A2) A3) s (B1) (Nonrivering the posits (B2) (Nonrivering the posits (B3) (Nonrivering the posits (B4)) ors: resent? resent? yes ont? yes of the posits (B4) yes on Aerial in the posits (B4) ons: resent? yes ont? yes of the posits (B4) yes ont? yes of the posits (B4) yes	ne) riverine) nagery (B7) s No s No s No auge, moni	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Other (Exp	st (B12) vertebrates Sulfide Odd Rhizosphere of Reduced in Reduction clain in Rem ches): ches): ches): ches): ches):	or (C1) es along L lron (C4) n in Plowe narks) // Sack	ections), if	Sec X Ss (C3) Show the state of the state	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (inche Remarks: //DROLOGY /etland Hydro /imary Indicato	logy Indicators: ors (any one indicater (A1) Table (A2) A3) s (B1) (Nonrivering the posits (B2) (Nonrivering the posits (B3) (Nonrivering the posits (B4)) ors: resent? resent? yes ont? yes of the posits (B4) yes on Aerial in the posits (B4) ons: resent? yes ont? yes of the posits (B4) yes ont? yes of the posits (B4) yes	ne) riverine) nagery (B7) s No s No s No auge, moni	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Other (Exp	st (B12) vertebrates Sulfide Odd Rhizosphere of Reduced in Reduction clain in Rem ches): ches): ches): ches): ches):	or (C1) es along L lron (C4) n in Plowe narks) // Sack	ections), if	Sec X Ss (C3) Show the state of the state	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3) FAC-Neutral Test (D5)

Project/Site: Nov M County Cor Applicant/Owner: Stantslaus County Investigator(s): Mike True Higo of Dat				
Investigator(s): MIKE THUE HIGH AFDOR				State: CA Sampling Point: 10
	ina Winches	Section	n. Township R	Sande.
	A STATE OF THE PARTY OF THE PAR			a, convex, none): Slope (%):
				Long: Datum:
Soil Map Unit Name:				
				NWI classification:
Are climatic / hydrologic conditions on the site typica			sNo_	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology _ Are Vegetation, Soil, or Hydrology _				e "Normal Circumstances" present? Yes No
	- 1		i e	needed, explain any answers in Remarks.) locations, transects, important features, et
TO BE SEED OF THE		3 samp	ming point	iocations, transects, important reatures, et
Hydrophytic Vegetation Present? Yes		1	s the Sample	d Area
Hydric Soil Present? Yes X Wetland Hydrology Present? Yes	No	v	within a Wetla	and? Yes No
Remarks:	No			
		. 1		
recent imgahon, and	still inund	ntect.		
T BANA	11			
/EGETATION				
Tree Stratum (Use scientific names.)	Absolute % Cover		ant Indicator	Dominance Test worksheet:
1.				Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2.				Total Number of Dominant
3.				Species Across All Strata: 2 (B)
4.				Percent of Dominant Species
Total Sapling/Shrub Stratum	Cover:			That Are OBL, FACW, or FAC: (A/B)
Saping/Strub Stratum 1				Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3				OBL species x 1 =
4.71 p2000 = 1 = 2 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1				FACW species x 2 =
5 adjunction of a make to be				FAC species x 3 =
	Cover:			FACU species x 4 =
Herb Stratum 1. Trifolium hurtum	7	10	UPL	UPL species x 5 =
	60	<u>N</u>	OH	Column Totals: (A) (B)
2 Alyceria declinata Leginis Triticoides	50	3	THE	Prevalence Index = B/A =
· Eleocharis macrostachya	5	ス	061	Hydrophytic Vegetation Indicators:
Rumex Crispus	20		FAC.	✓ Dominance Test is >50%
		THIE		Prevalence Index is ≤3.0¹
		Щ		Morphological Adaptations ¹ (Provide supporting
			y Mari	data in Remarks or on a separate sheet)
Total	Cover: 137			Problematic Hydrophytic Vegetation ¹ (Explain)
Voody Vine Stratum				The state of the s
•			-	¹ Indicators of hydric soil and wetland hydrology must be present.
- <u> </u>	0			<u> </u>
	Cover:		ΞII	Hydrophytic Vegetation
Bare Ground in Herb Stratum %	Cover of Biotic Cr	ust		Present? Yes X No
emarks:				
emarks:				
emarks:				

		h needed to documer		or confirm t	he absence	of Indicators.)
Depth Matrix (inches) Color (moist)	%	Redox Fo	eatures % Type ¹	1002	Texture	8
0-14" 104R3/1	100	Color (moist)	76 <u>TYPB</u>	LOC	Texture	Remarks
019 101K91	100		<u> </u>			Sanay clay
	 -	<u> </u>	11=(11 = 1			J 0
Type: C=Concentration, D=Deple lydric Soil Indicators: (Applica		RRs, unless otherwis		Lining, RC=	Indicators t	for Problematic Hydric Soils ³ :
Histosol (A1)		Sandy Redox (S				uck (A9) (LRR C)
Histic Epipedon (A2) Black Histic (A3)		Stripped Matrix Loarny Mucky M	, ,			uck (A10) (LRR B)
Hydrogen Sulfide (A4)		Loamy Gleyed N				d Vertic (F18) rent Material (TF2)
Stratified Layers (A5) (LRR C))	Depleted Matrix				Explain in Remarks)
1 cm Muck (A9) (LRR D)	,	Redox Dark Sur			Outon (2	-xpiair ir riomarks/
Depleted Below Dark Surface	(A11)	Depleted Dark S				
Thick Dark Surface (A12)		Redox Depressi	ons (F8)			
Sandy Mucky Mineral (S1)		Vernal Pools (F9	9)		3Indicators o	f hydrophytic vegetation and
Sandy Gleyed Matrix (S4) Restrictive Layer (if present):					wetland h	ydrology must be present.
Denth (inches):				27	Judela Call F	was and a Man X
soil trouvet to fi	redex nd wd	Martin. Movem	en Several	cter d	ara points	nea collected inte
Soil toour tofu and thetsupport r	nd ma	cator. Moved entrations Assum	er, Several addressed redux day	cter d	ata points	
Remarks:	nd ma	cutrations Assum	er, Several addressed redux day	cter d	ara points ce satis	nea collected inte
Soil tooust tofu and subsupport r (DROLOGY Vetland Hydrology Indicators:	nd ind	entrations. Assum	er, Several ed redux day	cter d	ata points cl Satis	nen collected inte Seed for This location.
Comarks: Soil toouse to find and truck support to find truck supp	nd ind	nt) Salt Crust (B11)	ed redux day	cter d	ata points ce Satis Second Wa	nen collected inte sted for This location, ary Indicators (2 or more required)
TOROLOGY Tetland Hydrology Indicators: rimary Indicators (any one indicators Surface Water (A1) High Water Table (A2)	nd ind	eutratius Assum	ed redux day	cter d	Second Wa Second	nen collected into Seed for The location, ary Indicators (2 or more required) ter Marks (B1) (Riverine)
TOROLOGY Tetland Hydrology Indicators: rimary Indicators (any one indicator Surface Water (A1) High Water Table (A2) Saturation (A3)	nd Md	nt) Salt Crust (B11) Biotic Crust (B1 Aquatic Inverteb	ed redux day) 2) prates (B13)	cter d	Second Wa Sec Drift	ven collected into Seed for This Icention, ary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine)
DROLOGY Tetland Hydrology Indicators: rimary Indicators (any one indicator Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine	nd Md	nt) Salt Crust (B11) Biotic Crust (B1 Aquatic Inverteb Hydrogen Sulfid) 2) prates (B13) le Odor (C1)	cter d k svrsa	Second Wa Sec Drift A Dra Dry	ven collected into S.ed for This location. ary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) to Deposits (B3) (Riverine)
PROLOGY Tetland Hydrology Indicators: Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine Sediment Deposits (B2) (Nonriverine	nd vd	nt) Salt Crust (B11) Biotic Crust (B1 Aquatic Invertet Hydrogen Sulfid Oxidized Rhizos) 2) prates (B13) le Odor (C1) spheres along Li	cter d k svrsa	Second Second Wa Sec Drit Dry C3)	ary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) to Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) on Muck Surface (C7)
Permarks: SOI TOOUR + TO Find And Support To Find Support To	nd vd	nt) Salt Crust (B11) Biotic Crust (B1 Aquatic Invertet Hydrogen Sulfid Oxidized Rhizos Presence of Rec) 2) prates (B13) le Odor (C1) spheres along Liduced Iron (C4)	oter d	Second Second Wa Sec Drit Dry C3) Thin	ary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) to Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) on Muck Surface (C7) yfish Burrows (C8)
Permarks: SOID too wet to find the fin	nd vd	nt) Salt Crust (B11) Biotic Crust (B1 Aquatic Invertet Hydrogen Sulfid Oxidized Rhizos Presence of Rec	oredox day 2) prates (B13) le Odor (C1) spheres along Liduced Iron (C4) duction in Plowed	oter d	Second Wa Second Drift ADra Dry C3) Thin X Sat	ary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) diage Patterns (B10) -Season Water Table (C2) n Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C
TOROLOGY Tetland Hydrology Indicators: rimary Indicators (any one indicators Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine Sediment Deposits (B2) (Nonriverine Drift Deposits (B3) (Nonriverine Surface Soil Cracks (B6) Inundation Visible on Aerial Image	nd vd	nt) Salt Crust (B11) Biotic Crust (B1 Aquatic Invertet Hydrogen Sulfid Oxidized Rhizos Presence of Rec	oredox day 2) prates (B13) le Odor (C1) spheres along Liduced Iron (C4) duction in Plowed	oter d	Second Second Wa Sec Drit Dry C3) Thin Cra X Sat Sha	ary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) dimage Patterns (B10) -Season Water Table (C2) n Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Collow Aquitard (D3)
PROLOGY Tetland Hydrology Indicators: rimary Indicators (any one indicators Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine Sediment Deposits (B2) (Nonriverine Drift Deposits (B3) (Nonriverine Surface Soll Cracks (B6) Inundation Visible on Aerial Ima Water-Stained Leaves (B9)	nd vd	nt) Salt Crust (B11) Biotic Crust (B1 Aquatic Invertet Hydrogen Sulfid Oxidized Rhizos Presence of Rec	oredox day 2) prates (B13) le Odor (C1) spheres along Liduced Iron (C4) duction in Plowed	oter d	Second Second Wa Sec Drit Dry C3) Thin Cra X Sat Sha	ary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) diage Patterns (B10) -Season Water Table (C2) n Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C
Port of the Control o	or is sufficiently	nt) Salt Crust (B11) Biotic Crust (B1 Aquatic Invertet Hydrogen Sulfid Oxidized Rhizos Presence of Rec Recent Iron Rec Other (Explain in	orates (B13) le Odor (C1) spheres along Liduced Iron (C4) duction in Plowed in Remarks)	oter d	Second Second Wa Sec Drit Dry C3) Thin Cra X Sat Sha	ary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) dimage Patterns (B10) -Season Water Table (C2) n Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3)
Por Company Co	or is sufficie	nt) Salt Crust (B11) Biotic Crust (B1 Aquatic Invertet Hydrogen Sulfid Oxidized Rhizos Presence of Rec Recent Iron Rec Other (Explain in	ed redux day 2) 2) prates (B13) le Odor (C1) spheres along Liduced Iron (C4) duction in Plowed in Remarks)	oter d	Second Second Wa Sec Drit Dry C3) Thin Cra X Sat Sha	ary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) dimage Patterns (B10) -Season Water Table (C2) n Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3)
Permarks: SOI TO LOCAT TO FINANCIA TO THE PROLOGY Petland Hydrology Indicators: rimary Indicators (any one indicator Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine Sediment Deposits (B2) (Nonriverine Drift Deposits (B3) (Nonriverine Surface Soil Cracks (B6) Inundation Visible on Aerial Ima Water-Stained Leaves (B9) Bid Observations: Inface Water Present? Yes ater Table Present? Yes	or is sufficie s) verine) e)	nt) Salt Crust (B11) Biotic Crust (B1 Aquatic Invertet Hydrogen Sulfid Oxidized Rhizos Presence of Rec Recent Iron Rec Other (Explain in	oracles (B13) le Odor (C1) spheres along Liduced Iron (C4) duction in Plowed n Remarks)	ving Roots (C6)	Second Second Wa Sec Drift Dry C3) Thin Cra X Sat FAC	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) ti Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) in Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3) C-Neutral Test (D5)
Permarks: SOI TO LOCAT TO THE CONTROLOGY Petland Hydrology Indicators: rimary Indicators (any one indicator Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine Sediment Deposits (B2) (Nonriverine Drift Deposits (B3) (Nonriverine Surface Soil Cracks (B6) Inundation Visible on Aerial Ima Water-Stained Leaves (B9) Bild Observations: Inface Water Present? Attention Present? Yes Attention Present? Yes Attention Present? Yes	or is sufficie s) verine) e)	nt) Salt Crust (B11) Biotic Crust (B1 Aquatic Invertet Hydrogen Sulfid Oxidized Rhizos Presence of Rec Recent Iron Rec Other (Explain in	oracles (B13) le Odor (C1) spheres along Liduced Iron (C4) duction in Plowed n Remarks)	ving Roots (C6)	Second Second Wa Sec Drit Dry C3) Thin Cra X Sat Sha	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) ti Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) in Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3) C-Neutral Test (D5)
emarks: SOII toout tofinate for the first support to final form of the first support to first support support to first support to first support to first support to	or is sufficie	nt) Salt Crust (B11) Biotic Crust (B1 Aquatic Invertet Hydrogen Sulfid Oxidized Rhizos Presence of Rec Recent Iron Rec Other (Explain in	oracles (B13) le Odor (C1) spheres along Liduced Iron (C4) duction in Plowed n Remarks)	ving Roots (C6) Wetland	Second Second Wa Sec Drit Dry C3) Thin Cra Sat FAC	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) ti Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) in Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (Callow Aquitard (D3) C-Neutral Test (D5)

Project/Site: North County	Corridor		City/Coun	ly: 5ta	Sampling Date: 4/15/	JOI
Applicant/Owner: Stanislaus Co	inty				State: CA Sampling Point: 160	
					ange:	
	Control of the contro				, convex, none): Slope (%):	
					Long: Datum:	
					NWI classification:	
Are climatic / hydrologic conditions on the s						
Are Vegetation, Soil, or Hyd					"Normal Circumstances" present? Yes X No	
Are Vegetation, Soil, or Hyd					needed, explain any answers in Remarks.)	
					locations, transects, important features,	etc
Hydrophytic Vegetation Present?	Yes No _	Χ_	lo f	he Sample	ly sugarby in Arijejeje in a resulting	ψy,
Hydric Soil Present?	Yes No _ Yes No _	<u></u>		hin a Wetla		
Wetland Hydrology Present?	Yes No _	<u> </u>		iii a would	103 100A	
VEGETATION	d data post		e in			
True Stantium (Ulas esignifica annos)		bsolute		Indicator	Dominance Test worksheet:	
Tree Stratum (Use scientific names.) 1			Species?		Number of Dominant Species That Are OBL, FACW, or FAC:	A)
2					Total Number of Dominant Species Across All Strata:	В)
4.						-,
One the dollar to Otrack and	Total Cover: _				Percent of Dominant Species That Are OBL, FACW, or FAC:	A/B)
Sapling/Shrub Stratum					Prevalence Index worksheet:	
1						
3					OBL species x 1 =	
4					FACW species x 2 =	
5.					FAC species x 3 =	
In the state of th	Total Cover:		a saini		FACU species x 4 =	
Herb Stratum			-	2	UPL species x 5 =	
1. Hordern murinum leperiolus					Column Totals: (A) ((B)
2. Festica perennis	N 1201 E	40	Yes	FACY	Branches Index - 8/A -	
			No	Facu UPL	Prevalence Index = B/A = Hydrophytic Vegetation Indicators:	
5. Fredim beins		5	NO	UPL	Dominance Test is >50%	
6					Prevalence Index is ≤3.0¹	
7.					Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	j
8.	T-4-1 O 1	6.5		111011	Problematic Hydrophytic Vegetation¹ (Explain)	
Woody Vine Stratum	Total Cover: 1	0.5			The sales of the s	
1.			-3.7		¹ Indicators of hydric soil and wetland hydrology mus	it
2. <u>************************************</u>		11:27_ III		THE ESSESSION	be present.	
% Bare Ground in Herb Stratum	Total Cover: % Cover of I		ıst	AI.	Hydrophytic Vegetation Present? Yes No _X	
Remarks:		J.040 OIL			110001111 100 110	
Tomans.						

	cription: (Desc	ribe to the de	pth needed to docu	ment the	indicator	or confirm	n the absence	of indicators.)
Depth (inches)	Color (mois		Color (moist)	x Feature		1 . 2		
0-9"			Color (moist)		Type	Loc ²	Texture	Remarks
0-4	10 m 34					Thurs	<u>, real college CO</u>	Sandy loan cly
				177				
	4							2011-2011-01-01-01-01-01-01-01-01-01-01-01-01-
							-5116	lances link a recomm
					•			
Type: C=Co	oncentration, D=	Depletion, RM	=Reduced Matrix.	² Location	: PL=Por	a Linina R	C=Root Chan	nel M=Matrix
			LRRs, unless other	rwise note	ed.)	521		for Problematic Hydric Soils ³ :
_ Histosol	(A1)		Sandy Redo	ox (S5)				fuck (A9) (LRR C)
_ Histic Ep	oipedon (A2)		Stripped Ma	atrix (S6)				fuck (A10) (LRR B)
_ Black His			Loamy Muc	ky Mineral	(F1)		Reduc	ed Vertic (F18)
	n Sulfide (A4)		Loamy Gley		(F2) .			arent Material (TF2)
	Layers (A5) (LF		Depleted Ma				Other (Explain in Remarks)
	ck (A9) (L RR D) I Below Dark Sui		Redox Dark					
	rk Surface (A12)		Depleted Da Redox Depr					
	ucky Mineral (S1		Vernal Pools		0)		3Indicators	of hydrophytic vegetation and
	leyed Matrix (S4		Vollian Ook	J (1 J)				hydrology must be present.
estrictive L	ayer (if present	:):						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		-						
Type:								
Type:	hes):						Hydric Soil	Present? Vec No Y
Depth (incl	hes):						Hydric Soil	Present? Yes No _X
	hes):						Hydric Soil	Present? Yes No X
Depth (incl	hes):						Hydric Soil	Present? Yes No X
Depth (incl	hes):			-			Hydric Soil	Present? Yes No X
Depth (incl	hes):				***		Hydric Soil	Present? Yes No _X
Depth (inclemants:							Hydric Soil	Present? Yes No X
Depth (inclemarks:		rs:						
Depth (inclemarks:	BY		cient)				Second	dary Indicators (2 or more required)
Depth (inclements: DROLOGetland Hydrimary Indica	SY rology Indicato ators (any one in			B11)			Seconi	dary Indicators (2 or more required) ater Marks (B1) (Riverine)
Depth (inclemarks: DROLOGetland Hydrographics Surface W	GY rology Indicatorators (any one invalue)		Salt Crust (<u>Secon</u> ; W: Se	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine)
Depth (inclemarks: DROLOG etland Hydrimary Indica Surface W High Wate	GY rology Indicato ators (any one in Vater (A1) er Table (A2)		Salt Crust (t (B12)	(B13)	///	<u>Secon</u> W Se Dr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine)
Depth (incl emarks: 'DROLOG etland Hydi imary Indica Surface W High Wate Saturation	rology Indicato ators (any one in Vater (A1) er Table (A2)	dicator is suffic	Salt Crust (Biotic Crust Aquatic Invo	t (B12) ertebrates	7.		Secono W: Se Dr Dr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10)
Depth (inclemarks: DROLOG etland Hydrimary Indica Surface W High Water Saturation Water Ma	rology Indicato ators (any one in Vater (A1) er Table (A2) n (A3) rks (B1) (Nonriv	dicator is suffic	Salt Crust (Biotic Crust Aquatic Invo Hydrogen S	t (B12) ertebrates Sulfide Odd	or (C1)	Living Root	Second	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2)
Depth (incl emarks: DROLOG etland Hydi imary Indica Surface W High Wate Saturation Water Mai Sediment	rology Indicatorators (any one invater (A1) er Table (A2) n (A3) rks (B1) (Nonriv	dicator is suffic rerine) Nonriverine)	Salt Crust (Biotic Crust Aquatic Invo Hydrogen S Oxidized Ri	t (B12) ertebrates Sulfide Odd hizosphere	or (C1) es along L		Second W. Se Dr Dr Dr s (C3) Th	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7)
Depth (incl emarks: DROLOG etland Hydrimary Indica Surface W High Wate Saturation Water Mar Sediment Drift Depo	rology Indicator ators (any one in Vater (A1) er Table (A2) n (A3) rks (B1) (Nonriv Deposits (B2) (Nosits (B3) (Nonriv	dicator is suffic rerine) Nonriverine)	Salt Crust (Biotic Crust Aquatic Invo Hydrogen S Oxidized RI Presence o	t (B12) ertebrates Sulfide Odd hizosphere f Reduced	or (C1) es along L Iron (C4)	VA II	Second W. Se Dr Dr Dr Dr s (C3) Th Cn	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8)
Depth (inclemarks: DROLOG etland Hydromary Indica Surface W High Water Saturation Water Mai Sediment Drift Depo	rology Indicator ators (any one in Vater (A1) er Table (A2) n (A3) rks (B1) (Nonriv Deposits (B2) (Nonriv oil Cracks (B6)	dicator is suffic verine) Nonriverine) verine)	Salt Crust (Biotic Crust Aquatic Invo Hydrogen S Oxidized Ri Presence or Recent Iron	t (B12) ertebrates Sulfide Odd hizosphere f Reduced	or (C1) es along L Iron (C4) n in Plowe	VA II	Second Second Second Second Second The price of the	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) iff Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9
DROLOG etland Hydrimary Indica Surface W High Water Ma Sediment Drift Depo Surface Si Inundation	rology Indicator ators (any one in Vater (A1) er Table (A2) n (A3) rks (B1) (Nonriv Deposits (B2) (Nonriv oil Cracks (B6) n Visible on Aeria	dicator is suffice verine) Nonriverine) verine)	Salt Crust (Biotic Crust Aquatic Invo Hydrogen S Oxidized Ri Presence o Recent Iron	t (B12) ertebrates Sulfide Odd hizosphere f Reduced	or (C1) es along L Iron (C4) n in Plowe	VA II	Second — Wi — Se — Dr — Dr — Dr — Cr 5 (C3) — Th — Cr 6) — Sa — Sh	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3)
Depth (inclemarks: DROLOG etland Hydi imary Indica Surface W High Water Saturation Water Ma Sediment Drift Depo Surface Selection Inundation Water-Sta	rology Indicatorators (any one invater (A1) er Table (A2) n (A3) rks (B1) (Nonrivolits (B2) (Nonrivolits (B3) (Nonrivolit Cracks (B6) n Visible on Aerialined Leaves (B9	dicator is suffice verine) Nonriverine) verine)	Salt Crust (Biotic Crust Aquatic Invo Hydrogen S Oxidized Ri Presence or Recent Iron	t (B12) ertebrates Sulfide Odd hizosphere f Reduced	or (C1) es along L Iron (C4) n in Plowe	VA II	Second — Wi — Se — Dr — Dr — Dr — Cr 5 (C3) — Th — Cr 6) — Sa — Sh	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) iff Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9
Depth (inclemarks: DROLOG etland Hydi imary Indica Surface W High Wate Saturation Water Ma Sediment Drift Depo Surface Si Inundation Water-Sta	rology Indicator ators (any one in Vater (A1) er Table (A2) n (A3) rks (B1) (Nonriv Deposits (B2) (Nonriv oil Cracks (B6) n Visible on Aeria ined Leaves (B9	dicator is suffice verine) Nonriverine) verine) al Imagery (B7	Salt Crust (Biotic Crust (Aquatic Inv. (Hydrogen S (Oxidized Ri (Presence o (Recent Iron () (Other (Expl.))	t (B12) ertebrates Sulfide Odd hizosphere f Reduced Reduction ain in Rem	or (C1) es along L Iron (C4) n in Plowe	VA II	Second — Wi — Se — Dr — Dr — Dr — Cr 5 (C3) — Th — Cr 6) — Sa — Sh	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3)
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Depth (inclemarks: DROLOG etland Hydrimary Indica Surface Water Mar Saturation Water Mar Sediment Drift Depo Surface Si Inundation Water-Sta eld Observa rface Water ater Table Preciudes capill	rology Indicator ators (any one in Vater (A1) er Table (A2) n (A3) rks (B1) (Nonriv Deposits (B2) (Nonriv oil Cracks (B6) n Visible on Aeria ined Leaves (B9 ations: Present? resent? sent?	verine) Nonriverine) verine) al Imagery (B7)) Yes N Yes N	Salt Crust (Biotic Crust (Aquatic Inv. Hydrogen S Oxidized Ri Presence o Recent Iron Other (Expl.	t (B12) ertebrates Sulfide Odd hizosphere f Reduced Reduction ain in Rem hes):	or (C1) es along L Iron (C4) n in Plowe narks)	d Soils (C	Second — Will — Se — Dr — Dr — Dr — Cr 6) — Sa — Sh — FA	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
Depth (inclemarks: DROLOG etland Hydrimary Indica Surface Water Mar Saturation Water Mar Sediment Drift Depo Surface Si Inundation Water-Sta eld Observa rface Water turation Prescludes capill	rology Indicator ators (any one in Vater (A1) er Table (A2) n (A3) rks (B1) (Nonriv Deposits (B2) (Nonriv oil Cracks (B6) n Visible on Aeria ined Leaves (B9 ations: Present? resent? sent?	verine) Nonriverine) verine) al Imagery (B7)) Yes N Yes N	Salt Crust (Biotic Crust Aquatic Invo Hydrogen S Oxidized RI Presence or Recent Iron Other (Expl.	t (B12) ertebrates Sulfide Odd hizosphere f Reduced Reduction ain in Ren hes):	or (C1) es along L Iron (C4) n in Plowe narks)	d Soils (C	Second — Will — Se — Dr — Dr — Dr — Cr 6) — Sa — Sh — FA	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)

Project/Site: Novh County	Corido		City/Count	y: 5ta	anislaus	Sampling Date: 4110
Applicant/Owner: Stanislaus Co					State: CA	
Investigator(s): MIKETYUZHIOWA	4					
Landform (hillslope, terrace, etc.):	20 m 3 m 3 m 3 m 3 m 3 m 3 m 3 m 3 m 3 m					
Subregion (LRR):						
Soil Map Unit Name:					NWI classif	
Are climatic / hydrologic conditions on the s			ar? Yes		(If no, explain in	CHECH
Are Vegetation, Soil, or Hyd		-	_			present? Yes X No
Are Vegetation, Soil, or Hyd					needed, explain any answ	
SUMMARY OF FINDINGS - Atta	11 (11)					
Hydrophytic Vegetation Present?	Yes X N	lo		ne Sample	d Area	1/4 1 13/14
		lo	with	nin a Wetla	and? Yes	No
Remarks:	Tes N	lo				3455
VEGETATION						
		Absolute	Dominant	Indicator	Dominance Test work	ksheet:
Tree Stratum (Use scientific names.)			Species?		Number of Dominant S	/
1. Salx lasiotepis		10°b	Tes	Factor	That Are OBL, FACW,	or FAC: (A)
2. Propulus Frementii 3.	(T. J. D.) N. C. (J. J. J. J.)	590		Tell	Total Number of Domir Species Across All Stra	
4.		150			Percent of Dominant S	pecies
Sapling/Shrub Stratum	Total Cover:	15			That Are OBL, FACW,	
1				14-51	Prevalence Index wor	ksheet:
2.		141	0 1 5		Total % Cover of:	Multiply by:
3					OBL species	x1=
4. <u>- 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. </u>		BY 8			FACW species	_ x 2 =
5. <u>** Wattles He for He</u>					FAC species	x 3 =
Herb Stratum	Total Cover:				FACU species _	x4=
1. Festica perentis		40	Yes	Facu	UPL species	U 19 II
2. Spergularia rubra		35	Yes	FAL	Column Totals:	(A) (B)
3 Vicenvillusa		5	NO	UPL	Prevalence Index	= B/A =
1. Riner CV. spis		_2	NO	Fac	Hydrophytic Vegetation	on Indicators:
5. Lythrum hysseptisalia		_3	Nø	Facw	Dominance Test is	
	[H 11 81		SELO III III		Prevalence Index is	
7.						otations ¹ (Provide supporting sor on a separate sheet)
3	8	90		1. 7		phytic Vegetation ¹ (Explain)
Voody Vine Stratum	Total Cover:	02				, and the state of the state
I.					¹ Indicators of hydric soil	and wetland hydrology must
		11,10		H H H	be present.	
6 Bare Ground in Herb Stratum	Total Cover:	of Biotic Cru	ıst		Hydrophytic Vegetation Present? Yes	X No
Remarks:		J. D.OGO OIL		н н ш	. resent 18:	
Notice to						
				- 14.4		

				i y Visgilli				Sampling Point:
	ription: (Describe t	o the depth	needed to docu	ment the in	dicator	or confirm	n the absence	of indicators.)
Depth (inches)	Matrix *	0/		ox Features	- 1			
(inches)	Color (moist)		Color (moist)		Type ¹	_Loc2	Texture	Remarks
0-6	1.57K3/Z	95 -	348516	5_		M		loany sand
				<u> 4 1, 11 - </u>				0
					V .			
				7				
								
						I HIM	15.16	
						<u>v </u>		10
					•			
Type: C=Co	ncentration, D=Deple	tion RM=Re	duced Matrix	2 ocation:	DI =Dor	a Lining P	C=Post Chan	nel, M=Matrix.
	ndicators: (Applicat			rwise noted	.)	e Limity, K		for Problematic Hydric Soils ³ :
Histosol (Sandy Red		,			fluck (A9) (LRR C)
	ipedon (A2)		Stripped Ma	` '				Muck (A10) (LRR B)
Black His	tic (A3)			ky Mineral (I	=1)			ed Vertic (F18)
	Sulfide (A4)			ed Matrix (F	2)			arent Material (TF2)
	Layers (A5) (LRR C)		Depleted M					(Explain in Remarks)
	k (A9) (LRR D)	444		Surface (F6				
-	Below Dark Surface (k Surface (A12)	A11)	N 4	ark Surface (
	icky Mineral (S1)		Vernal Pool	ressions (F8)			3Indicators	of hydrophytic vegetation and
	eyed Matrix (S4)		vonian ooi	3 (1 3)				hydrology must be present.
	yer (if present):	ALILI, S.M.					WOULD IN	nyarology mast be present.
Туре:								
		ili Hursi				- 10	Unadala Call	D
Depth (inch	es):		_				HVaric Soil	rresent? Yes 🗥 No
Depth (inch Remarks:	es):		•				Hydric Soil	Present? Yes No
	es):	Minimum .					nyaric Soil	Present? Yes No No
	es):					1 -	nyaric Soil	Present? Yes No
	(es):					1	nyaric Soil	Present? Yes No
temarks:		Amenini - 20 (200) - 10 (200)				1	Hydric Soli	Present? Yes No No
Remarks:						1		dary Indicators (2 or more required)
Remarks: 'DROLOG Vetland Hydro	Y	r is sufficient				1	Second	
Remarks: /DROLOG /etland Hydro	Y ology Indicators: ors (any one indicato	r is suffici <u>e</u> nt) Salt Crust (B11)			<u> </u>	dary Indicators (2 or more required)
PROLOG Setland Hydrorimary Indicat Surface W.	Y ology Indicators: ors (any one indicato	r is suffici e nt		•		d -	<u>Seconi</u> W: Se	dary Indicators (2 or more required) ater Marks (B1) (Riverine)
PROLOG Vetland Hydrorimary Indicat Surface Would High Water Saturation	Y ology Indicators: ors (any one indicato ater (A1) r Table (A2) (A3)		Salt Crust (•	313)		<u>Secon</u> W: Se Dr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine)
PROLOG Vetland Hydrorimary Indicat Surface Would High Water Saturation	Y ology Indicators: ors (any one indicato ater (A1) r Table (A2)		Salt Crust (Biotic Crust Aquatic Inve	(B12)	,		Seconi Wi Se Dr Dr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine)
PROLOG Petland Hydrorimary Indicat Surface W. High Water Saturation Water Mari	Y ology Indicators: ors (any one indicato ater (A1) r Table (A2) (A3)		Salt Crust (Biotic Crust Aquatic Inv	(B12) ertebrates (E	(C1)	iving Roots	Second 	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10)
YDROLOG Vetland Hydro rimary Indicat Surface W. High Water Saturation Water Mark	Y ology Indicators: ors (any one indicato ater (A1) r Table (A2) (A3) ks (B1) (Nonriverine)	rerine)	Salt Crust (Biotic Crust Aquatic Invo Hydrogen S Oxidized RI	t (B12) ertebrates (E Sulfide Odor	(C1) along L	iving Roots	Second 	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2)
YDROLOG Vetland Hydro rimary Indicat Surface W. High Water Saturation Water Mari Sediment D. Drift Depos	Y ology Indicators: ors (any one indicato ater (A1) r Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriv	rerine)	Salt Crust (Biotic Crust Aquatic Invo Hydrogen S Oxidized RI Presence o	t (B12) ertebrates (E Sulfide Odor nizospheres	(C1) along Li on (C4)		Second 	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) iff Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8)
PROLOG Vetland Hydrorimary Indicat Surface William Water Saturation Water Mari Sediment Deposition Surface So	Y ology Indicators: ors (any one indicato ater (A1) r Table (A2) (A3) ks (B1) (Nonriverine) oleposits (B2) (Nonriverine)	rerine)	Salt Crust (Biotic Crust Aquatic Invo Hydrogen S Oxidized RI Presence of Recent Iron	t (B12) ertebrates (E Gulfide Odor nizospheres f Reduced Ir	(C1) along L on (C4) n Plowe		Seconi — Wi — Se — Dr — Dr — Dr — Cr — Cr — Sa	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) iff Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8)
YDROLOG Vetland Hydrorimary Indicat Surface Water Mark Saturation Water Mark Sediment E Drift Depose Surface So Inundation Water-Stain	Y ology Indicators: tors (any one indicatorate (A1) r Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine sits (B3) (Nonriverine ill Cracks (B6) Visible on Aerial Imaged Leaves (B9)	rerine)	Salt Crust (Biotic Crust Aquatic Invo Hydrogen S Oxidized RI Presence of Recent Iron	t (B12) ertebrates (B sulfide Odor nizospheres f Reduced In Reduction in	(C1) along L on (C4) n Plowe		Second	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ainage Patterns (B10) by-Season Water Table (C2) ain Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C
YDROLOG Vetland Hydrorimary Indicat Surface Water Mark Saturation Water Mark Sediment E Drift Depose Surface So Inundation Water-Stain	Y ology Indicators: tors (any one indicatorate (A1) r Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine sits (B3) (Nonriverine ill Cracks (B6) Visible on Aerial Imaged Leaves (B9)	rerine)	Salt Crust (Biotic Crust Aquatic Invo Hydrogen S Oxidized RI Presence of Recent Iron	t (B12) ertebrates (B sulfide Odor nizospheres f Reduced In Reduction in	(C1) along L on (C4) n Plowe		Second	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ainage Patterns (B10) ay-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (Callow Aquitard (D3)
YDROLOG Vetland Hydro rimary Indicat Surface W. High Water Saturation Water Mart Sediment I. Drift Depos	Y ology Indicators: ors (any one indicato ater (A1) r Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine sits (B3) (Nonriverine sil Cracks (B6) Visible on Aerial Imag ned Leaves (B9)	rerine)	Salt Crust (Biotic Crust Aquatic Invo Hydrogen S Oxidized RI Presence of Recent Iron	t (B12) ertebrates (E Sulfide Odor nizospheres f Reduced Ir Reduction is	(C1) along L on (C4) n Plowe		Second	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ainage Patterns (B10) ay-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (Callow Aquitard (D3)
YDROLOG Vetland Hydro rimary Indicat Surface W. High Water Saturation Water Mark Sediment D Drift Depose Surface So Inundation Water-Stair	Y ology Indicators: ors (any one indicatorater (A1) r Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine sil Cracks (B6) Visible on Aerial Imagened Leaves (B9) ions: Present? Yes _	verine)) gery (B7)	Salt Crust (Biotic Crust Aquatic Inv. Hydrogen S Oxidized RI Presence o Recent Iron Other (Expl.	t (B12) ertebrates (E Sulfide Odor nizospheres f Reduced Ir Reduction in ain in Reman	(C1) along L on (C4) n Plowe		Second	dary Indicators (2 or more required) ater Marks (B1) (Riverine) idiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (Callow Aquitard (D3)
YDROLOG Vetland Hydro rimary Indicat Surface Water Mari Sediment D Drift Depose Surface So Inundation Water-Stair eld Observat	yology Indicators: fors (any one indicator) fater (A1) frable (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine) fil Cracks (B6) Visible on Aerial Image fined Leaves (B9) fions: Present? Yes_ esent? Yes_	gery (B7)	Salt Crust (Biotic Crust Aquatic Invo Hydrogen S Oxidized RI Presence o Recent Iron Other (Expl	i (B12) ertebrates (E Sulfide Odor nizospheres f Reduced Ir Reduction in ain in Remain nes):	(C1) along L on (C4) n Plowe	d Soils (C6	Second	dary Indicators (2 or more required) ater Marks (B1) (Riverine) idiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (Callow Aquitard (D3) C-Neutral Test (D5)

Remarks:

Project/Site: Novh County	Corrido	~	City/Co	unty: 5t	anislaus	Sampling Date: 4114/
Applicant/Owner: Stanislaus C	ounty	ALDIOX - IR			State: CA	Sampling Point: 17 A
Investigator(s): MIKETYUEHIOD	deDayna	Winchel	Section	ı, Township, F	Range:	
Landform (hillslope, terrace, etc.):						
Subregion (LRR):						
Soil Map Unit Name:						
Are climatic / hydrologic conditions on th	e site typical for	this time of ye	ar? Ye	s × No	(If no. explain in Re	marks.)
Are Vegetation, Soil, or I					"Normal Circumstances" pre	1.37
Are Vegetation, Soil, or H					needed, explain any answers	4. A 182 H
SUMMARY OF FINDINGS - At	= 0 / 10			22		
Hydrophytic Vegetation Present?	Yes	No X			Christian Ville Bra	
Hydric Soil Present?	Yes	No X		s the Sample vithin a Wetla		NoX
Wetland Hydrology Present?	Yes	No <u>×</u>		AITHINI S AAGUS	ind? Tes	_ NO
	upland o	data po	1			
EGETATION		Absolute	Domin	ant Indicator	Dominance Test worksh	eet.
Tree Stratum (Use scientific names.)		% Cover	Specie	s? Status	Number of Dominant Spe	cies
. = A'					That Are OBL, FACW, or	FAC:(A)
7 m v 7-3 mc					Total Number of Dominan	
X					Species Across All Strata:	(B)
		er:			Percent of Dominant Spec That Are OBL, FACW, or	
Sapling/Shrub Stratum						
•					Prevalence Index works	
						Multiply by:
					OBL species	
					FAC species	
1-1-2-31, (<u>190-1</u> 1), (190-11)	Total Cove		- 1		FACU species	
erb Stra <u>tum</u>			1		UPL species	
Brems drandrus		35	Tes		Column Totals:	
Evodrum betrys		45	Yes	UPL		
Vicia Villusa		20	1-05	- UPL	Prevalence Index =	
					Hydrophytic Vegetation	
					Dominance Test is >5 Prevalence Index is <	
						tions ¹ (Provide supporting
					data in Remarks or	on a separate sheet)
<u> </u>	Total Cove	100		770	Problematic Hydrophy	tic Vegetation¹ (Explain)
oody Vine Stratum	i ciai cove	100			201 VA 12	
<u> </u>					Indicators of hydric soil ar	d wetland hydrology must
					be present.	11 July 1817
	Total Cove	r:			Hydrophytic	
Bare Ground in Herb Stratum	% Cove	r of Biotic Cru	ıst		Vegetation Present? Yes	No _X
emarks:						

Sampling Point:

Depth Matrix	Redox F	eatures			
(inches) Color (moist) %	Color (moist)	% Type¹	Loc ²	Texture	Remarks
0-7" 754R312 100					. loanysand
					100119740
11	 				
					
Type: C=Concentration, D=Depletion, R		cation: PL=Pore	Lining, R	C=Root Channel, N	/I=Matrix.
lydric Soil Indicators: (Applicable to	all LRRs, unless otherwis	e noted.)		Indicators for I	Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S	S5)		1 cm Muck	(A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix	(S6)		2 cm Muck	(A10) (LRR B)
Black Histic (A3)	Loamy Mucky N	Aineral (F1)		Reduced V	
Hydrogen Sulfide (A4)	Loamy Gleyed I	Matrix (F2)			Material (TF2)
_ Stratified Layers (A5) (LRR C)	Depleted Matrix	(F3)			ain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark Sur				·
Depleted Below Dark Surface (A11)	Depleted Dark S	Surface (F7)			
_ Thick Dark Surface (A12)	Redox Depressi	ions (F8)			
_ Sandy Mucky Mineral (S1)	Vernal Pools (F	9)		3Indicators of hy	drophytic vegetation and
_ Sandy Gleyed Matrix (S4)					ology must be present.
estrictive Layer (if present):		(
Type:					
				Hydric Soil Proc	ent? Ven Ne
Depth (inches):				Hydric Soil Pres	ent? Yes No
Depth (inches):emarks:				Hydric Soil Pres	ent? Yes No
Depth (inches):emarks:					
Depth (inches):				Secondary	Indicators (2 or more required)
Depth (inches):	ficient)			Secondary Water I	Indicators (2 or more required) Marks (B1) (Riverine)
Depth (inches):emarks: /DROLOGY /etland Hydrology Indicators: imary Indicators (any one indicator is sufSurface Water (A1)	ficient) Salt Crust (B11	•		Secondary Water I Sedime	Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine)
Depth (inches):emarks: /DROLOGY /etland Hydrology Indicators: /imary Indicators (any one indicator is sufficient to the sufficient of the sufficient	ficient) Salt Crust (B11 Biotic Crust (B1	2)		Secondary Water I Sedime	Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) (Riverine)
Depth (inches):emarks: DROLOGY etland Hydrology Indicators: imary Indicators (any one indicator is suf Surface Water (A1) High Water Table (A2) Saturation (A3)	ficient) Salt Crust (B11 Biotic Crust (B1 Aquatic Invertet	2) brates (B13)		Secondary Water I Sedime Drift De	Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) (Riverine) ge Patterns (B10)
Depth (inches):	ficient) Salt Crust (B11 Biotic Crust (B1 Aquatic Invertel Hydrogen Sulfic	2) brates (B13) de Odor (C1)		Secondary Water I Sedime Drift De	Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) (Riverine) ge Patterns (B10) ason Water Table (C2)
Depth (inches):	ficient) Salt Crust (B11 Biotic Crust (B1 Aquatic Invertel Hydrogen Sulfic Oxidized Rhizos	, 2) brates (B13) de Odor (C1) spheres along Li	ving Roots	Secondary Water I Sedime Drift De Drainag Dry-Sea (C3) Thin Me	Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) (Riverine) ge Patterns (B10) ason Water Table (C2) uck Surface (C7)
Depth (inches):	ficient) Salt Crust (B11 Biotic Crust (B1 Aquatic Invertel Hydrogen Sulfic	, 2) brates (B13) de Odor (C1) spheres along Li	ving Roots	Secondary Water I Sedime Drift De Drainag Dry-Sea (C3) Thin Me	Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) (Riverine) ge Patterns (B10) ason Water Table (C2)
Depth (inches):	ficient) Salt Crust (B11 Biotic Crust (B1 Aquatic Invertel Hydrogen Sulfic Oxidized Rhizos Presence of Re	, 2) brates (B13) de Odor (C1) spheres along Li		Secondary Water I Sedime Drift De Drainag Dry-Sea (C3) Thin Mu	Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) (Riverine) ge Patterns (B10) ason Water Table (C2) uck Surface (C7)
Depth (inches):	ficient) Salt Crust (B11 Biotic Crust (B1 Aquatic Invertel Hydrogen Sulfic Oxidized Rhizos Presence of Re Recent Iron Rec	2) brates (B13) de Odor (C1) spheres along Li duced Iron (C4) duction in Plowe		Secondary Water I Sedime Drift De Drainag Dry-See (C3) Thin Me Crayfisl Saturati	Indicators (2 or more required) Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Patterns (B10) Int Patterns (B10) Int Surface (C7) Int Burrows (C8) Int Visible on Aerial Imagery (C8)
Depth (inches):	ficient) Salt Crust (B11 Biotic Crust (B1 Aquatic Invertel Hydrogen Sulfic Oxidized Rhizos Presence of Re Recent Iron Rec	2) brates (B13) de Odor (C1) spheres along Li duced Iron (C4) duction in Plowe		Secondary Water I Sedime Drift De Drainag Dry-See (C3) Thin Mi Crayfisi) Saturat Shallow	Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) (Riverine) ge Patterns (B10) ason Water Table (C2) ack Surface (C7) in Burrows (C8)
Depth (inches):	ficient) Salt Crust (B11 Biotic Crust (B1 Aquatic Invertel Hydrogen Sulfic Oxidized Rhizos Presence of Re Recent Iron Rec	2) brates (B13) de Odor (C1) spheres along Li duced Iron (C4) duction in Plowe		Secondary Water I Sedime Drift De Drainag Dry-See (C3) Thin Mi Crayfisi) Saturat Shallow	Indicators (2 or more required) Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Patterns (B10) Int Patterns (B10) Int Surface (C7) Int Burrows (C8) Int On Visible on Aerial Imagery (C8) Int Aquitard (D3)
Depth (inches): Demarks: DROLOGY Tetland Hydrology Indicators: Timary Indicators (any one indicator is suffered 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 (Bater of Control of Contro	Salt Crust (B11 Biotic Crust (B1 Aquatic Invertel Hydrogen Sulfic Oxidized Rhizos Presence of Re Recent Iron Rec	2) brates (B13) de Odor (C1) spheres along Li duced Iron (C4) duction in Plower n Remarks)		Secondary Water I Sedime Drift De Drainag Dry-See (C3) Thin Mi Crayfisi) Saturat Shallow	Indicators (2 or more required) Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Patterns (B10) Int Patterns (B10) Int Surface (C7) Int Burrows (C8) Int On Visible on Aerial Imagery (C8) Int Aquitard (D3)
Depth (inches):	ficient) Salt Crust (B11 Biotic Crust (B1 Aquatic Invertel Hydrogen Sulfic Oxidized Rhizos Presence of Re Recent Iron Rec i7) Other (Explain in	2) brates (B13) de Odor (C1) spheres along Li duced Iron (C4) duction in Plower n Remarks)		Secondary Water I Sedime Drift De Drainag Dry-See (C3) Thin Mi Crayfisi) Saturat Shallow	Indicators (2 or more required) Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Patterns (B10) Int Patterns (B10) Int Surface (C7) Int Burrows (C8) Int On Visible on Aerial Imagery (C8) Int Aquitard (D3)
Depth (inches):	Salt Crust (B11 Biotic Crust (B11 Aquatic Invertel Hydrogen Sulfic Oxidized Rhizos Presence of Re Recent Iron Rec Other (Explain in	2) brates (B13) de Odor (C1) spheres along Li duced Iron (C4) duction in Plower n Remarks)	d Soils (C6	Secondary Water I Sedime Drift De Drainag Dry-Sea (C3) Thin Ma Crayfisl Saturat Shallow FAC-Ne	Indicators (2 or more required) Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Patterns (B10) Interposits (B3) (Riverine) Interposits (B3) (Riverine) Interposits (B3) (Riverine) Interposits (B3) Interposits
Depth (inches):	ficient) Salt Crust (B11 Biotic Crust (B1 Aquatic Invertel Hydrogen Sulfic Oxidized Rhizos Presence of Re Recent Iron Rec i7) Other (Explain in	2) brates (B13) de Odor (C1) spheres along Li duced Iron (C4) duction in Plower n Remarks)	d Soils (C6	Secondary Water I Sedime Drift De Drainag Dry-See (C3) Thin Mi Crayfisi) Saturat Shallow	Indicators (2 or more required) Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Patterns (B10) Interposits (B3) (Riverine) Interposits (B3) (Riverine) Interposits (B3) (Riverine) Interposits (B3) Interposits
Depth (inches):	Salt Crust (B11 Biotic Crust (B11 Aquatic Invertel Hydrogen Sulfic Oxidized Rhizos Presence of Re Recent Iron Rec Other (Explain in No Depth (inches): No Depth (inches):	2) brates (B13) de Odor (C1) spheres along Li duced Iron (C4) duction in Plower n Remarks)	d Soils (C6	Secondary Water I Sedime Drift De Drainag Dry-Sea (C3) Thin Me Crayfisi Saturat Shallow FAC-Ne	Indicators (2 or more required) Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Patterns (B10) Interposits (B3) (Riverine) Interposits (B3) (Riverine) Interposits (B3) (Riverine) Interposits (B3) Interposits
Depth (inches):	Salt Crust (B11 Biotic Crust (B11 Aquatic Invertel Hydrogen Sulfic Oxidized Rhizos Presence of Re Recent Iron Rec Other (Explain in No Depth (inches): No Depth (inches):	2) brates (B13) de Odor (C1) spheres along Li duced Iron (C4) duction in Plower n Remarks)	d Soils (C6	Secondary Water I Sedime Drift De Drainag Dry-Sea (C3) Thin Me Crayfisi Saturat Shallow FAC-Ne	Indicators (2 or more required) Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Patterns (B10) Interposits (B3) (Riverine) Interposits (B3) (Riverine) Interposits (B3) (Riverine) Interposits (B3) Interposits
Depth (inches): Commarks: Commark:	Salt Crust (B11 Biotic Crust (B11 Aquatic Invertel Hydrogen Sulfic Oxidized Rhizos Presence of Re Recent Iron Rec Other (Explain in No Depth (inches): No Depth (inches):	2) brates (B13) de Odor (C1) spheres along Li duced Iron (C4) duction in Plower n Remarks)	d Soils (C6	Secondary Water I Sedime Drift De Drainag Dry-Sea (C3) Thin Me Crayfisi Saturat Shallow FAC-Ne	Indicators (2 or more required) Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Patterns (B10) Interposits (B3) (Riverine) Interposits (B3) (Riverine) Interposits (B3) (Riverine) Interposits (B3) Interposits
Depth (inches):	Salt Crust (B11 Biotic Crust (B11 Aquatic Invertel Hydrogen Sulfic Oxidized Rhizos Presence of Re Recent Iron Rec Other (Explain in No Depth (inches): No Depth (inches):	2) brates (B13) de Odor (C1) spheres along Li duced Iron (C4) duction in Plower n Remarks)	d Soils (C6	Secondary Water I Sedime Drift De Drainag Dry-Sea (C3) Thin Me Crayfisi Saturat Shallow FAC-Ne	Indicators (2 or more required) Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Patterns (B10) Interposits (B3) (Riverine) Interposits (B3) (Riverine) Interposits (B3) (Riverine) Interposits (B3) Interposits
Depth (inches):	Salt Crust (B11 Biotic Crust (B11 Aquatic Invertel Hydrogen Sulfic Oxidized Rhizos Presence of Re Recent Iron Rec Other (Explain in No Depth (inches): No Depth (inches):	2) brates (B13) de Odor (C1) spheres along Li duced Iron (C4) duction in Plower n Remarks)	d Soils (C6	Secondary Water I Sedime Drift De Drainag Dry-Sea (C3) Thin Me Crayfisi Saturat Shallow FAC-Ne	Indicators (2 or more required) Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Patterns (B10) Interposits (B3) (Riverine) Interposits (B3) (Riverine) Interposits (B3) (Riverine) Interposits (B3) Interposits

Project/Site: Novh County Co	KIDO	City/Cour	ity:	anisiaus	Sampling Date:	0/14
Applicant/Owner: Stanislaus Count				State: CA		
Investigator(s): MIKETYULHIODATDO	zyna Winche i	Section,	Township, R	ange:		П
Landform (hillslope, terrace, etc.):					111 1114(130)	
Subregion (LRR):						
Soil Map Unit Name:						
Are climatic / hydrologic conditions on the site ty						
Are Vegetation, Soil, or Hydrolog					present? Yes X	io
Are Vegetation, Soil, or Hydrolog				needed, explain any answ		-
SUMMARY OF FINDINGS - Attach s					5100 mil	s, et
Hydrophytic Vegetation Present? Yes _	Y No	le i	he Sample	d Area		titi
	X No				No	
Wetland Hydrology Present? Yes _ Remarks:	_X No		= = [[]		Y EXULTED	
g firm " g m		ii Swiii			permal s	
/EGETATION	Absolute	Dominan	t Indicator	Dominance Test wor	ksheet.	ш
Tree Stratum (Use scientific names.) 1.			Status	Number of Dominant S That Are OBL, FACW	Species	(A)
2.				Total Number of Domi	nant	
3.	elija I			Species Across All Str		(B)
4. <u>13 Maria 13 Maria</u> To	otal Cover:	1000		Percent of Dominant S That Are OBL, FACW,		(A/B)
Sapling/Shrub Stratum				4 A BUINE		(700)
				Prevalence Index wo		
2 <u>au allami — maki</u>		THE DE		Total % Cover of:	1000011	_
in presume terms.					x 1 = x 2 =	_
				1	x3=	_
Te	otal Cover:	SHEET			x 4 =	-
ierb Stratum		ES .			x5 =	
Browns hordencers	5	No			(A)	_ (B)
Congressed declinate	40	Yes	OPL			_ (-/
Polygonum sp.		Tes	Faciny		c = B/A =	
_ unknown rhysimiteus vive		No		Hydrophytic Vegetati		
. <u></u>		11-1-		Dominance Test is		
				Prevalence Index		
The state of the s				data in Remark	iptations ¹ (Provide support s or on a separate sheet)	ing
. <u>113 3 3 3 3 3 3 3 5 5 5 5 5 5 5 5 5 5 5 </u>	tal Cover:		Te N	Problematic Hydro	phytic Vegetation ¹ (Explain	1)
Voody Vine Stratum				To Minor Land		
	ri A ^e o Milli		112		il and wetland hydrology m	ust
er (ë e e e e e e	er Bicker		II Bolid	be present.		iji <u>"</u>
To	tal Cover:			Hydrophytic		
6 Bare Ground in Herb Stratum	% Cover of Biotic Cn	ust		Vegetation Present? Ye	sX No	
temarks:	21 N.15210		di viinii	1 3 1 1 2121		

SOIL	

Sampling Point:	18	
ors.)		
Remarks		

Depth	Matrix			ox Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc2	Texture	Remarks
0-8"	10 TR 4/2	95	SYRYIU	S		M		Jan logh
	Y-RI							
		· —— ·						
		 -					110,000	
Type: C=Cor	ncentration, D=Depl	etion, RM=	Reduced Matrix.	² Location	: PL=Pore	e Linina. R	C=Root Chan	nel, M=Matrix.
	dicators: (Applica			rwise note	ed.)		Indicators	for Problematic Hydric Soils ³ :
Histosol (A	A1)		Sandy Red	ox (S5)				fluck (A9) (LRR C)
	pedon (A2)		Stripped Ma					Muck (A10) (LRR B)
Black Hist			Loamy Muc		(F1)			ed Vertic (F18)
_	Sulfide (A4)		Loamy Gley	-				arent Material (TF2)
	ayers (A5) (LRR C)	Depleted M		(/ · //			(Explain in Remarks)
	(A9) (LRR D)		Redox Dark		F6)		0	(
Depleted E	Below Dark Surface	(A11) 🔒	Depleted Da		•			
Thick Dark	Surface (A12)	1	X Redox Depr	essions (F	8)			
Sandy Mud	cky Mineral (S1)		Vernal Pools	s (F9)	d -		³ Indicators	of hydrophytic vegetation and
Sandy Gle	yed Matrix (S4)						wetland	hydrology must be present.
lestrictive La	yer (if present):		Average III					
Times								
Туре:			_					\
Depth (inche	es):	o u i im					Hydric Soil	Present? Yes No
	es):				***	9	Hydric Soil	Present? Yes No
Depth (inche							Hydric Soil	Present? Yes No
Depth (inche lemarks:	r						alirji	
Depth (inchestemarks: /DROLOGY	Y ology Indicators:						Secon	dary Indicators (2 or more required)
Depth (inche demarks: DROLOGY Tetland Hydrorimary Indicate	Y ology Indicators: ors (any one indicat	or is sufficie					Şecon W	dary Indicators (2 or more required) ater Marks (B1) (Riverine)
Depth (inche demarks: /DROLOGY /etland Hydrorimary Indicate Surface Wa	Y plogy Indicators: ors (any one indicat ater (A1)	or is sufficie	Salt Crust (<u>Şecon</u> W Se	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine)
Depth (inche lemarks: /DROLOGY /etland Hydro rimary Indicate Surface Wa High Water	Y ology Indicators: ors (any one indicat ater (A1) Table (A2)	or is sufficie	Salt Crust ((B12)			<u>Secon</u> W Se Dr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) iff Deposits (B3) (Riverine)
Depth (inchestemarks: DROLOGY Tetland Hydro rimary Indicate Surface Wa High Water Saturation (ology Indicators: ors (any one indicatater (A1) Table (A2)		Salt Crust ((B12)	(B13)		<u>Secon</u> W Se Dr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine)
Depth (inchestemarks: DROLOGY Tetland Hydro rimary Indicate Surface Wa High Water Saturation (Y ology Indicators: ors (any one indicat ater (A1) Table (A2)		Salt Crust ((B12) ertebrates			W Se Dr Dr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) iff Deposits (B3) (Riverine)
Depth (inche demarks: DROLOG) Vetland Hydro rimary Indicate Surface Wa High Water Saturation (Water Mark	ology Indicators: ors (any one indicatater (A1) Table (A2)	B)	Salt Crust (Biotic Crust Aquatic Inve	t (B12) ertebrates Gulfide Odo	or (C1)	iving Roots	Secon W Se Dr Dr Dr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) iff Deposits (B3) (Riverine) ainage Patterns (B10)
Depth (inche lemarks: DROLOG) Setland Hydrorimary Indicate Surface Wa High Water Saturation (Water Mark Sediment D	y logy Indicators: ors (any one indicat ater (A1) Table (A2) (A3) (S (B1) (Nonriverine	e) iverine)	Salt Crust (Biotic Crust Aquatic Invo	(B12) ertebrates Sulfide Odo nizosphere	or (C1) es along Li	iving Roots	Secon W Se Dr Dr Dr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) iff Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2)
Depth (inche lemarks: DROLOGY Vetland Hydrorimary Indicate Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi	y logy Indicators: ors (any one indicat ater (A1) Table (A2) (A3) (s (B1) (Nonrivering	e) iverine)	Salt Crust (Biotic Crust Aquatic Invo Hydrogen S Oxidized Ri	t (B12) ertebrates Sulfide Odd nizosphere f Reduced	or (C1) es along Li Iron (C4)		Secon W Se Dr Dr Dr Cr Cr Cr Cr Cr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) iff Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8)
Depth (inche demarks: DROLOGY Vetland Hydrorimary Indicate Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi	ology Indicators: ors (any one indicators) ater (A1) Table (A2) (A3) (A3) (A3) (A3) (A3) (A3) (A3) (A3	e) iverine) ee)	Salt Crust (Biotic Crust Aquatic Invo Hydrogen S Oxidized RI Presence or	i (B12) ertebrates Sulfide Odo nizosphere f Reduced Reduction	or (C1) es along Li Iron (C4) n in Plowe		Secon W Se Dr Dr Th CC3) Salari	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) iff Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C
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Project/Site: North County Co	ridor cit	y/County: 5tz	anislaus s	Sampling Date: 4116/1
Applicant/Owner: Stanislaus Count			State: S	ampling Point: 19
Investigator(s): MIKETYUE HOOOFDO	tuna Winchellso	ction, Township, R	lange:	
Landform (hillslope, terrace, etc.):	A STATE OF THE PARTY OF THE PAR			
Subregion (LRR):				
Soil Map Unit Name:			NWI classificati	
Are climatic / hydrologic conditions on the site typ				
Are Vegetation, Soil, or Hydrology			"Normal Circumstances" pre-	
Are Vegetation, Soil, or Hydrology			needed, explain any answers	D-07-25 - 550
SUMMARY OF FINDINGS - Attach sit	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Bulletin	No. 1 and the second	70000
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes Yes	No	is the Sample within a Wetla	d Area	No
EGETATION				
Tree Stratum (Use scientific names.)	% Cover St	ominant Indicator oecies? Status	Dominance Test worksho Number of Dominant Spec That Are OBL, FACW, or F	ies
	<u> </u>		Total Number of Dominant Species Across All Strata:	(B)
			Percent of Dominant Speci	es ,
Sapling/Shrub Stratum	tal Cover:		That Are OBL, FACW, or F	
·			Prevalence Index worksh	eet:
			Total % Cover of:	
			OBL species	
			FACW species	
			FAC species	_ x3=
	al Cover:		FACU species	_ x 4 =
erb Stratum	10 n	FAC	UPL species	
glyceria declinata	20 n	0b1	Column Totals:	_ (A) (B)
Nasturtium officinale	100 V	ObL	Prevalence Index = E	M/A =
		110	Hydrophytic Vegetation Ir	
TO SOLUTION TO BE SOLVED TO SOLUTION OF THE SO			X Dominance Test is >50	
		ingi jini jen	Prevalence Index is ≤3.	
			Morphological Adaptati data in Remarks or o	ons ¹ (Provide supporting on a separate sheet)
T-4-	al Cover: 130		Problematic Hydrophyti	
oody Vine Stratum	ai Covei. 100			" HILL STATE OF
			Indicators of hydric soil and	wetland hydrology must
III II			be present.	0.0000001
Tota	al Cover:		Hydrophytic	
Bare Ground in Herb Stratum	6 Cover of Biotic Crust		Vegetation Present? Yes	Y No
	11 11			
% Bare Ground in Herb Stratum	6 Cover of Biotic Crust _			No

S	a	•
J	v	_

Sampling Point: 19

Depth	Matrix	0/	Redox Featu		. 2	_		
(inches)	Color (moist)	Witness of the Control of the Contro	Color (moist) %	Type ¹	Loc	Texture	Remarks	
7 13 10	YR3/1	100		<u> </u>		nie ie	Clay loan	<u>سا</u>
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		44-						
			The state of the s	IN .				
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	II .			¥//				
					المحال			
	ntration, D=Dep		duced Matrix. ² Location	on: PL=Pore L	ining, RC	Root Chann	el, M=Matrix.	
Hydric Soil Indi	cators: (Applic	able to all LRF	ls, unless otherwise n	oted.)		Indicators 1	for Problematic Hydric Soils ³	:
Histosol (A1)		Sandy Redox (S5)			1 cm M	uck (A9) (LRR C)	
Histic Epipe	ion (A2)		Stripped Matrix (S6))			uck (A10) (LRR B)	
Black Histic	(A3)		Loamy Mucky Mine	ral (F1)			d Vertic (F18)	
Hydrogen St	ılfide (A4)		Loamy Gleyed Matr	ix (F2)			rent Material (TF2)	
Stratified Lay	ers (A5) (LRR C	;)	Depleted Matrix (F3)			Explain in Remarks)	
1 cm Muck (49) (LRR D)		Redox Dark Surface	(F6)			V I I I I I	
Depleted Be	ow Dark Surface	(A11)	Depleted Dark Surfa					
_ Thick Dark S	urface (A12)		Redox Depressions	(F8)				
Sandy Muck	/ Mineral (S1)		Vernal Pools (F9)			3Indicators o	f hydrophytic vegetation and	
Sandy Gleye	d Matrix (S4)						nydrology must be present.	
Restrictive Laye	r (if present):				· T		,	
Type:								
						hadata Oatt D		
Depth (inches		unable to	o idenish, redox. I soil hydra indo	would like		Hydric Soil F	1. Marie 1.	· · · ·
Depth (inches) Remarks:		unable 1 Assumac	o idenish, redox. I soil hydric inde	would like			1. Marie 1.	,)
Depth (inches demarks:	ndated soils	unable to Assumace	o idenishy tedox. I soil hydric inde	would like		dentisias b	e indrier soils	
Depth (inches) demarks: Lnv /DROLOGY /etland Hydrolo	ndated Soils.	Assumac	l soil hydric inde	would like		Second	e Indrier Soils	
Depth (inches) Remarks: 100 100 100 100 100 100 100 100 100 1	gy Indicators:	Assumac	l soil hydric indic	would like		Second	ary Indicators (2 or more requireter Marks (B1) (Riverine)	red)
Depth (inches) demarks: Lnv /DROLOGY /etland Hydrolo rimary Indicators Surface Wate	gy Indicators: (any one indica	Assumac	Salt Crust (B11)	would like		Second Wa	ary Indicators (2 or more requirer Marks (B1) (Riverine)	red)
Depth (inches) temarks: Lnv /DROLOGY /etland Hydrolo rimary Indicators Surface Wate High Water To	gy Indicators: (any one indicators (A1) able (A2)	Assumac	Salt Crust (B11) Biotic Crust (B12)	raker met.		Second Wa Sec	ary Indicators (2 or more requirement Marks (B1) (Riverine) diment Deposits (B2) (Riverine)	red)
Depth (inches) temarks: Low DROLOGY fetland Hydrolo rimary Indicators Surface Wate High Water To Saturation (A:	gy Indicators: (any one indicator (A1) able (A2)	Assumace tor is sufficient)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate	es (B13)		Second Wa Sec	ary Indicators (2 or more requirer Marks (B1) (Riverine)	red)
Depth (inches) temarks: DROLOGY Tetland Hydrolo rimary Indicators Surface Wate High Water Ta Saturation (A: Water Marks	gy Indicators: (any one indicator (A1) Table (A2) (B1) (Nonrivering	Assumace tor is sufficient)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O	es (B13)	the in	Second Wa Sec Drift Dra Dry	ary Indicators (2 or more requirement Marks (B1) (Riverine) diment Deposits (B2) (Riverine)	red)
Depth (inches) temarks: DROLOGY Tetland Hydrolo rimary Indicators Surface Wate High Water Ta Saturation (A: Water Marks	gy Indicators: (any one indicator (A1) able (A2)	Assumace tor is sufficient)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate	es (B13)	the in	Second Wa Sec Drift Dra Dry	ary Indicators (2 or more requirement Deposits (B2) (Riverine) diment Deposits (B3) (Riverine) dinage Patterns (B10)	red)
Depth (inches) Remarks: **DROLOGY** **Jetiand Hydrological Autority Indicators** **Surface Wate High Water To Saturation (A: Water Marks of Sediment Depth ** **Sediment Depth ** **Depth (inches)** **Jetin Control (inches)** **Depth (inches)** **Jetin Control (inches)** **Depth (inches)** **Depth (inches)** **Depth (inches)** **Depth (inches)** **Jetin Control (inches)** **Jetin	gy Indicators: (any one indicator (A1) Table (A2) (B1) (Nonrivering	Assumace tor is sufficient)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O	es (B13) Hor (C1) Hores along Livin	the in	Second Second Wa Sec Drift Dra Dry C3)	ary Indicators (2 or more requirement Deposits (B2) (Riverine) diment Deposits (B3) (Riverine) dimage Patterns (B10) -Season Water Table (C2)	red)
Depth (inches) Remarks: DROLOGY Vetland Hydrolo rimary Indicators Surface Wate High Water To Saturation (A: Water Marks Sediment Dep	gy Indicators: (any one indicator (A1) able (A2) B1) (Nonrivering (B2) (Nonrivering (B3) (Nonrivering	Assumace tor is sufficient)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe	es (B13) Indor (C1) Index along Living and Iron (C4)	g Roots (Second Second Wa Sec Drift Dra Dry C3) Thin	ary Indicators (2 or more requirement of Deposits (B2) (Riverine) diment Deposits (B3) (Riverine) dimage Patterns (B10) -Season Water Table (C2) on Muck Surface (C7) yfish Burrows (C8)	red)
Depth (inches) Remarks: Low DROLOGY Vetland Hydrolo rimary Indicators Surface Wate High Water To Saturation (A: Water Marks of Sediment Dep Drift Deposits Surface Soll Co	gy Indicators: (any one indicator (A1) able (A2) B1) (Nonrivering (B2) (Nonrivering (B3) (Nonrivering	tor is sufficient) e) iverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reduct	es (B13) Idor (C1) Idor (C1) Idor (C4) Idor in Plowed S	g Roots (Second Wa Second Drift Dra Dry C3) Thin	ary Indicators (2 or more requirement of Deposits (B2) (Riverine) diment Deposits (B2) (Riverine) dimage Patterns (B10) -Season Water Table (C2) on Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Image	red)
Depth (inches) Remarks: Low /DROLOGY /etland Hydrolo rimary Indicators Surface Wate High Water To Saturation (A: Water Marks Sediment Dep Drift Deposits Surface Soll C Inundation Vis	gy Indicators: (any one indicators) (A1) (B1) (Nonrivering indicators) (B3) (Nonrivering indicators) (B3) (Nonrivering indicators) (B3) (Nonrivering indicators)	tor is sufficient) e) iverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce	es (B13) Idor (C1) Idor (C1) Idor (C4) Idor in Plowed S	g Roots (Second Wa Sec Drift Dra Dry C3) Satt	ary Indicators (2 or more requirater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) dimage Patterns (B10) -Season Water Table (C2) on Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagerallow Aquitard (D3)	red)
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Depth (inches) Remarks: Inv DROLOGY Vetland Hydrolo rimary Indicators Surface Wate High Water Ta Saturation (A: Water Marks Sediment Dep Drift Deposits Surface Soll C Inundation Vis Water-Stained eld Observation urface Water Pre ater Table Present cludes capillary	gy Indicators: (any one indicator (A1) (B1) (Nonrivering (B3) (Non	e) iverine) agery (B7) No No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduct Recent Iron Reduct Other (Explain in Re	es (B13) idor (C1) eres along Livin ed Iron (C4) ion in Plowed S ermarks)	g Roots (Goils (C6)	Second Second Wa Sec Drift Dra Dry C3) Thin Cra Sati FAC	ary Indicators (2 or more requirement of Deposits (B2) (Riverine) diment Deposits (B2) (Riverine) dimage Patterns (B10) -Season Water Table (C2) In Muck Surface (C7) In Muck Surface (C8) In Water of Deposits (C8) In Muck Surface (C8) In Muck Surface (C7) In Muc	red)
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Project/Site: Novh County Corri	do	City/Co	ounty: 5to	anislaus	Sampling Date: 4122/10
Applicant/Owner: Stanislaus County					
Investigator(s): MIKETYUZ HOOD DAV	na Winchell	Section	n. Township. R	ange:	E BENTELL WE
Landform (hillslope, terrace, etc.):	3				
Subregion (LRR):					
Soil Map Unit Name:		_		_	DE NO.
Are climatic / hydrologic conditions on the site typical					
Are Vegetation, Soil, or Hydrology					"present? Yes X No
Are Vegetation, Soil, or Hydrology			150 71	eeded, explain any ansv	to the state of
SUMMARY OF FINDINGS – Attach site	map showing -	samı	pling point	locations, transec	ts, important features, et
Hydrophytic Vegetation Present? Yes X	No		is the Sample	d Area	
Hydric Soil Present? Yes X	No		within a Wetla		NoX
	NoX		***************************************	163	No A
Remarks: Irrigation ditch not correct	rinuse				
1 31 m	1 1 2 2				
/EGETATION	E - 231 5: V		1 5 00000		na l == Amaran
E FOR THE WILLIAM THE WEAK TO BE THE	Absolute		nant Indicator	Dominance Test wo	ksheet:
<u>Tree Stratum</u> (Use scientific names.)	% Cover	Speci	es? Status	Number of Dominant	
1				That Are OBL, FACW	, or FAC: (A)
2				Total Number of Dom	/
3.		- 11.71	<u> </u>	Species Across All St	rata: (B)
4	 Cover:			Percent of Dominant S	
Sapling/Shrub Stratum				That Are OBL, FACW	, or FAC: (A/B)
1.			<u> </u>	Prevalence Index wo	rksheet:
2			ar =		Multiply by:
3.					x 1 =
4					x 2 =
5					x 3 =
Herb Stratum	Cover:				x4 = x5 =
1. Gluceria declinata	100	4	- FAKW		(A) (B)
2. Bromushordiaceus	5	h	FACU	Column Totals.	(A) (B)
3. Dirachampsia dunthancides	<u> </u>	4	FACO	Prevalence Inde	x = B/A =
4. Cyperus evogrostis		ム	FACIO	Hydrophytic Vegetat	
5.	offic Directors			Dominance Test is	
6. <u>- 100 - </u>	* A	Tall:		Prevalence Index	
7. <u>1. 26. </u>	<u> </u>	21 (1		Morphological Ada	aptations¹ (Provide supporting so or on a separate sheet)
THE RESIDENCE OF THE PROPERTY	(100 to				ophytic Vegetation¹ (Explain)
Total C <u>Woody Vine Stratum</u>	Cover: 120				1) (marphant)
				¹ Indicators of hydric so	il and wetland hydrology must
TO DESIGN THE PARTY OF THE PART	- Integralia		T HIE	be present.	este in a la l
	Cover:		71 70	Hydrophytic	10 11 21 14
	Cover of Biotic Cn	uet		Vegetation Present? Ye	es X No
	AAA OI BIOUC CU	JOI	1000	Liesentt 16	78 NO
Remarks:					

Comparison Com	Profile Description: (Describe to the Depth Matrix	Red	ox Feature				كالمناب المناولة المناولة
Type: C=Concentration, D=Depletion, RM-Reduced Matrix. Type: C=Concentration, D=Depletion, RM-Reduced Matrix. Type: C=Concentration, RM-Reduced Matrix. Type: C=Concentra		Color (moist)	%		Loc ²	Texture	Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix. 3Location: PL=Pore Lining, RC=Roof Channel, M=Matrix. 1	<u>D-10" 2542 85</u>	<u>572916</u>	12	<u></u>	M	Section 1	Sandyloam
Type: C=Concentration, D=Depletion; RM=Reduced Matrix. *Location: PL=Pore Lining, RC=Root Channel, M=Matrix. lydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosoil (A1)	10-13" 7.57R4/2 85	542410	15	C	M		0
Indicators: (Applicable to all LRRs, unless otherwise noted.)			156-				
ydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A1) Histosol (A1) Histosol (A2) Histosol (A2) Histosol (A2) Histosol (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F2) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Horn (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present. Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (E4) Sandy Gleyed Matrix (E5) Sandy Gleyed Matrix (E4) Sandy Gleyed Matrix (E5) Sandy Gleyed Matrix (E6) Sandy Gleyed Matrix (E7) Tipe: Depth (inches): Type: Depth (inches): Surface Water Fable (A2) Dirit Gleyed Matrix (E7) Saduration (A3) Aquatic Invertebrates (B13) Pirit Gleyed Matrix (E7) Dirit Deposits (B2) (Nonriverine) Hydrogen Sulfide Odor (C1) Dirit Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Santation Visible on Aerial Imagery (C5) Santation Visible on Aerial Imagery (C5) Ido Deservations: Internation Finds (E7) Wetland Hydrology Present? Yes No Depth (Inches): Dirit Gleyerine) No Matrix (E7) Wetland Hydrology Present? Yes No Santalopholos, previous inspections), if available:	N == 1 (N)		VV.				
ydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A1) Histosol (A1) Histosol (A2) Histosol (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Loamy Gleyed Matrix (F2) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A12) Redox Dark Surface (F7) Hick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Sandy Selyed Matrix (S4) Sardy Gleyed Matrix (S6) Sardy Gleyed Matri				22			
Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histic Epipedon (A2) Stripped Matrix (S8) 2 cm Muck (A10) (LRR B) Black Histic (A3) 2 coarny Mucky Mineral (F1) Reduced Veric (F18) Hydrogen Sulfide (A4) 2 coarny Mucky Mineral (F1) Reduced Veric (F18) Hydrogen Sulfide (A4) 2 coarny Gleyed Matrix (F2) Red Parent Material (TF2) Thick Dark Surface (A12) Pepleted Dark Surface (F6) Depleted Deriv Surface (A11) Depleted Dark Surface (F6) Depleted Dark Surface (A12) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sartificed Layer (if present): Type: Depleted Dark Surface (A12) Redox Depressions (F8) Surface Water (A1) Depth (inches): Hydric Soli Present? Yes No Mater Marks (B1) (Riverine) Sculment Deposits (B2) (Riverine) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B2) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B2) (Riverine) Sediment Deposits (B2) (Nonriverine) Hydrogen Sulfide Odor (C1) Drift Deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) Dry-Season Water Table (C2) Drift Deposits (B3) (Monriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soli Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C5 Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Water Marks (B1) (Present? Yes No Depth (inches): Increase Water Present? Yes No Depth (inches): Increase Present? Yes No Depth (inc			² Location	: PL=Pore	Lining, F		
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Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D) Depleted Bolow Dark Surface (A11) Thick Dark Surface (A12) Sandy Muck (A9) (LRR D) Sandy Muck (A9) (LRR D) Depleted Dark Surface (A12) Sandy Muck (A9) (LRR D) Redox Depressions (F8) Vernal Pools (F9) **Indicators of hydrophytic vegetation and wetland hydrology must be present. **Lestrictive Layer (if present): Type: Type: Depth (inches): Hydric Soil Present? Yes X No Petland Hydrology Indicators: **Marks (B1) (Riverine) Surface Water (A1) Saturation (A3) Water Marks (B1) (Riverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Riverine) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (B7) Water Stained Leaves (B9) Water Stained Leaves (B9) Water Pseent? Yes No Depth (inches): Dry Sessent? Yes No D							
1 cm Muck (A9) (LRR D)				(F2)			
Depleted Below Dark Surface (A11)				(FO)		Other	(Explain in Remarks)
Thick Dark Surface (A12)							
Sandy Mucky Mineral (S1)							
Sandy Gleyed Matrix (S4) wetland hydrology must be present. Page				F8)		a. #	
Proceedings Proceedings Proceedings Procedure Proceedings Procedure Processor Processo		Vemai Poo	Is (F9)				
Type:						wetland	hydrology must be present.
Depth (inches):							
Properties Pro							
/ DROLOGY / Jettand Hydrology Indicators: / Indicators (any one indicator is sufficient) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) Sutrace Water (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B3) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Drift Deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Sutration Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Water-Stained Leaves (B9) Thin Wuck Surface (C7) Saturation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) X FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No Depth (inches): Surface Water Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Social Cracks (B7) Wetland Hydrology Present? Yes No Secrete Review Indicators (B7) Wetland Hydrology Present? Yes No Secrete Review Indicators (B7) Wetland Hydrology Present? Yes No Secrete Review Indicators (B7) Wetland Hydrology Present? Yes No Secrete Review Indicators (B7) Wetland Hydrology Present? Yes No Secrete Review Indicators (B7) Wetland Hydrology Present? Yes No Secrete Review Indicators (B7) Wetland Hydrology Present? Yes No Secrete Review Indicators (B7) Wetland Hydrology Present? Yes No Secrete Review Indicators (B7) Wetland Hydrology Present? Yes No Secrete Review Indicators (B7) Wetland Hydrology Present? Yes No Secrete Review Indicators (B7) Wetland Hydrology Present? Yes No Secrete Review Indicators (B7) Wetland Hydrology Present? Yes No Secrete Review Indicators (B7) Wetland Hydrology Present? Yes No Secrete Review Indicators (B7) Wetland Hydrology Present? Yes No Secrete Review Indicators (B7) Wetland Hydrology Present? Yes No Secrete Review Indicators (B7) Wetland Hydrology Present? Yes No Secrete Review Indicators (B7) Wetland Hydrol	Depth (inches):					Hydric Soil	Present? Yes X No No
Secondary Indicators: Secondary Indicators (2 or more required)	/DROLOGY			-			<u>, II</u>
Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Beld Observations: Jurface Water Present? Yes No Depth (inches): Ji' Wetland Hydrology Present? Yes No Depth (inches): Ji' Saturation Present? Yes No Depth (inches): Ji' Wetland Hydrology Present? Yes No Depth (inches): Ji' Saturation Present? Yes No Depth (inche						Secor	ndary Indicators (2 or more required)
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Water Marks (B1) (Nonriverine)				(D42)			- · · · · · · · · · · · · · · · · · · ·
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9 Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Shallow Aquitard (D3) FAC-Neutral Test (D5) Shallow Aquitard (D3) Shallow Aquitard (D3)							
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	_ Surface Soil Cracks (B6)	Recent Iro	n Reductio	n in Plowe	d Soils (C	(6) S	aturation Visible on Aerial Imagery (C9
eld Observations: urface Water Present? Yes No _X Depth (inches): ater Table Present? Yes No _X Depth (inches): aturation Present? Yes No _X Depth (inches):/?'' ucludes capillary fringe) ascribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: amarks:	_ Inundation Visible on Aerial Imagery	(B7) Other (Exp	lain in Ren	narks)		si	hallow Aquitard (D3)
ater Table Present? Yes No _X Depth (inches): ater Table Present? Yes No _X Depth (inches): aturation Present? Yes No _X Depth (inches):/ includes capillary fringe) secribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: semarks:	_ Water-Stained Leaves (B9)					<u>X</u> F/	AC-Neutral Test (D5)
ater Table Present? Yes No Depth (inches): 712" aturation Present? Yes No Depth (inches): 713" Wetland Hydrology Present? Yes No X cludes capillary fringe) secribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	eld Observations:				T	· · · · · · · · · · · · · · · · · · ·	
ater Table Present? Yes No Depth (inches): 12'' aturation Present? Yes No Depth (inches): 13'' aturation Present? Yes No Depth (inches): 13'' aturation Present? Yes No X Depth (inches): 13'' acturation Pres	urface Water Present? Yes	No X Depth (inc	hes):	_			
aturation Present? Yes No X Depth (inches): 73 Wetland Hydrology Present? Yes No X Depth (inches): 73 Wetland Hydrology Present? Yes No X Depth (inches): 73 Yes No X Dept		ALTON AND THE STATE OF THE STAT		1217	20/		
acludes capillary fringe) escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: emarks:				12"	184-41-	ا - سامان الم	Property Ver
emarks:	cludes capillary fringe)		CONTRACTOR OF THE PERSON OF TH	// s			/ Present? Yes No _^
	TOLIUM INDIANUSULIJAM INDIANUSUMA	monitoring well, aerial p	notos, pre	vious inspe	ecuons), n	avallable:	
Irrigation ditch that is no longer being used	Joseph Transland Para Jordani gauge,						
o J	emarks:						
	emarks:	matis n	o la	ngu	beir	ngused	
	marks:	matis n	o lo	ngu	beir	ngused	

Project/Site: North County Covid	City.	County:	anisiaus	_ Sampling Date: サ/ とと/
Applicant/Owner: Stanislaus County				
Investigator(s): MIKETYULHI OOd Dayne				
Landform (hillslope, terrace, etc.):	Loc	al relief (concave	, convex, none):	Slope (%):
Subregion (LRR):				
Soil Map Unit Name:				ication:
Are climatic / hydrologic conditions on the site typical fo	or this time of year?	Yes X No	(If no, explain in	Remarks.)
Are Vegetation, Soil, or Hydrology	significantly distu	ırbed? Are	"Normal Circumstances"	present? Yes No
Are Vegetation, Soil, or Hydrology	naturally problen		eeded, explain any answ	
SUMMARY OF FINDINGS - Attach site m	ap showing sa	mpling point	locations, transect	s, important features, etc
Hydrophytic Vegetation Present? Yes X	_ No	Is the Sample		
Hydric Soil Present? Yes		within a Wetla		No_X
	_ No <u>X</u>	Within a Wetta	103	mai mo u os
Remarks:	d data point	In irriso	ited pasture.	
VEGETATION		The state of the s		
		minant Indicator	Dominance Test wor	ksheet:
<u>Tree Stratum</u> (Use scientific names.)		ecies? Status	Number of Dominant S	Species 7
1. <u> </u>			That Are OBL, FACW,	or FAC: (A)
3.			Total Number of Domi	
4.			Species Across All Str	ata: (B)
	over:		Percent of Dominant S That Are OBL, FACW,	
Sapling/Shrub Stratum				
1			Prevalence Index wo	
2				Multiply by: x 1 =
3				x2=
4 5				x3 =
	over:	juli laini, s		x 4 =
Herb Stratum				x 5 =
	<u> 45 4</u>		Column Totals:	
- Kifolim hum	<u>35</u> n	yr_		
3. Bromus hordeaveus	\$10 m	FACU	Prevalence Index	
A Plantago landiolata	<u> </u>	FACU	Hydrophytic Vegetati	
5. Atriplix sp	$-\frac{2}{n}$	UPL	X Dominance Test is	
5. bordium murinum leparidum	_ _ _ _	UPL	Prevalence Index	
7. Deschampsia danthanoides	- Zs A	FACW		ptations ¹ (Provide supporting s or on a separate sheet)
	ver: 175	- 	Problematic Hydro	phytic Vegetation ¹ (Explain)
Noody Vine Stratum				
			Indicators of hydric so be present.	il and wetland hydrology must
Trail Co			Hydrophytic	
	ver: ver of Biotic Crust _		Vegetation Present? Ye	s X No
Remarks:			, resent: 18	- NV
Volliaino.				

Sampling Point: 20A

Type: C=Concentration, D=Depletion, RM=Reduced Matrix.	Channel, M=Matrix. Cators for Problematic Hydric Soils³: 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) cators of hydrophytic vegetation and etland hydrology must be present.
Type: C=Concentration, D=Depletion, RM=Reduced Matrix. Location: PL=Pore Lining, RC=Roc Mydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Stripped Matrix (S6) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (Fp resent): Type: Depth (inches): Hydrology Indicators: trimpary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Defit Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6)	Channel, M=Matrix. cators for Problematic Hydric Soils³: 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) cators of hydrophytic vegetation and etland hydrology must be present.
Type: C=Concentration, D=Depletion, RM=Reduced Matrix. Location: PL=Pore Lining, RC=Roc Mydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Stripped Matrix (S6) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (Fp resent): Type: Depth (inches): Hydrology Indicators: trimpary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Defit Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6)	Channel, M=Matrix. cators for Problematic Hydric Soils³: 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) cators of hydrophytic vegetation and etland hydrology must be present.
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Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	cators for Problematic Hydric Soils ³ : 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) cators of hydrophytic vegetation and etland hydrology must be present.
Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	cators for Problematic Hydric Soils ³ : 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) cators of hydrophytic vegetation and etland hydrology must be present.
Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) I cm Muck (A9) (LRR D) Depleted Dark Surface (F6) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Wetstrictive Layer (If present): Type: Depth (inches): Depth (inches): Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soll Cracks (B6) Pasardy Redox Dark Surface (F6) Depleted Matrix (F3) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F3) Loamy Micky Mineral (F1) Loamy Gleyed Matrix (F2) Loamy Micric (F6) Loamy Micric (F6) Loamy Gleyed Matrix (F2) Loamy Micric (F6) Loamy Micric (F6) Loamy Micric (F1) Loamy Micric (F1) Loamy Gleyed Matrix (F2) Loamy Micric (F1) Loamy Gleyed Matrix (F2) Loamy Micric (F1) Loamy Gleyed Matrix (F2) Loamy Matrix (F2) Loamy Micric (F1) Loamy Gleyed Matrix (F2) Loamy Gleyed Ma	cators for Problematic Hydric Soils ³ : 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) cators of hydrophytic vegetation and etland hydrology must be present.
Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	cators for Problematic Hydric Soils ³ : 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) cators of hydrophytic vegetation and etland hydrology must be present.
Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) I cm Muck (A9) (LRR D) Depleted Dark Surface (F6) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Wetstrictive Layer (If present): Type: Depth (inches): Depth (inches): Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soll Cracks (B6) Pasardy Redox Dark Surface (F6) Depleted Matrix (F3) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F3) Loamy Micky Mineral (F1) Loamy Gleyed Matrix (F2) Loamy Micric (F6) Loamy Micric (F6) Loamy Gleyed Matrix (F2) Loamy Micric (F6) Loamy Micric (F6) Loamy Micric (F1) Loamy Micric (F1) Loamy Gleyed Matrix (F2) Loamy Micric (F1) Loamy Gleyed Matrix (F2) Loamy Micric (F1) Loamy Gleyed Matrix (F2) Loamy Matrix (F2) Loamy Micric (F1) Loamy Gleyed Matrix (F2) Loamy Gleyed Ma	cators for Problematic Hydric Soils ³ : 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) cators of hydrophytic vegetation and etland hydrology must be present.
Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) I cm Muck (A9) (LRR D) Depleted Dark Surface (F6) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Vernal Pools (F9) Particular Layer (If present): Type: Depth (inches): Type: Depth (inches): Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Water Marks (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soll Cracks (B6) Recent Iron Reduction in Plowed Soils (C6)	cators for Problematic Hydric Soils ³ : 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) cators of hydrophytic vegetation and etland hydrology must be present.
Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	cators for Problematic Hydric Soils ³ : 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) cators of hydrophytic vegetation and etland hydrology must be present.
Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) Stripped Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Depleted Below Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Vernal Pools (F9) Sandy Gleyed Matrix (S4) Notestrictive Layer (If present): Type: Depth (inches): Hydrology Indicators: rimary Indicators (any one indicator is sufficient) Surface Water (A1) Salt Crust (B11) Soltic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) Surface Soll Cracks (B6) Recent Iron Reduction in Plowed Soils (C6)	1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) cators of hydrophytic vegetation and etland hydrology must be present.
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) It m Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Hydre Remarks: **Toron Mucky Mineral (S1) Sandy Gleyed Matrix (S4) **Toron Mucky Mineral (S1) Sandy Gleyed Matrix (S4) **Toron Mucky Mineral (F7) Hydre Remarks: **Toron Mucky Mineral (F1) Loamy Mucky Mineral (F1) Redox Dark Surface (F6) Perleted Dark Surface (F7) Perland Pools (F9) **June Remarks (F8) **Toron Mucky Mineral (F1) Hydre Remarks: **Toron Mucky Mineral (F1) Loamy Mucky Mineral (F1) Loamy Mucky Mineral (F1) Salt Crust (B11) Biotic Crust (B12) Squartic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6)	2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) cators of hydrophytic vegetation and etland hydrology must be present.
Black Histic (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Loamy Gleyed Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Vernal Pools (F9) Po	Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) cators of hydrophytic vegetation and etland hydrology must be present.
Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Vernal Pools (F9) Indicators (If present): Type: Depth (inches): Depth (inches): Depth (inches): Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Dirit Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Strace (A1) Hydrogen Sulfide Matrix (F2) Deptet Matrix (F3) Pepleted Matrix (F3) Redox Dark Surface (F7) Redox Depressions (F8) Vernal Pools (F9) Sediox Depressions (F8) Vernal Pools (F9) Pepleted Matrix (F2) Redox Dark Surface (F6) Depleted Matrix (F3) Redox Dark Surface (F6) Pepleted Matrix (F2) Redox Dark Surface (F6) Pepleted Matrix (F2) Redox Dark Surface (F6) Pepleted Matrix (F3) Sediox Dark Surface (F6) Pepleted Matrix (F3) Redox Dark Surface (F6) Pepleted Matrix (F3) Redox Dark Surface (F6) Pepleted Matrix (F3) Redox Dark Surface (F6) Pepleted Matrix (F2) Pepleted Matrix (F3) Redox Dark Surface (F6) Pepleted Matrix (F3) Redox Dark Surface (F6) Pepleted Matrix (F3) Pepleted Matrix (F2) Pepleted Matrix (F2) Pepleted Matrix (F2) Pepleted Matrix (F2) Pepleted Matrix (F3) Pepleted Matrix (F2) Pepleted Matrix (F3) Pepleted Matrix (F2) Pepleted Matrix (F1) Pepleted Matrix (F2) Pepleted Matrix (F1) Pepleted Dark Surface (F6) Pepleted Dark Surface (F1) Pepleted Dark Surface (F1) Pepleted Dark Surface (F1) Pepleted Dark Surface (F1) Pepleted Dark Surface (F1	Red Parent Material (TF2) Other (Explain in Remarks) cators of hydrophytic vegetation and etland hydrology must be present.
Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Redox Depressions (F8) Vernal Pools (F9) Pools (F9	Other (Explain in Remarks) cators of hydrophytic vegetation and etland hydrology must be present.
	cators of hydrophytic vegetation and etland hydrology must be present.
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) 3Ind Sandy Gleyed Matrix (S4) Vernal Pools (F9) 3Ind Restrictive Layer (If present): Depth (inches): Betti	etland hydrology must be present.
Thick Dark Surface (A12)	etland hydrology must be present.
Sandy Mucky Mineral (S1) Vernal Pools (F9) 3Ind Sandy Gleyed Matrix (S4) Restrictive Layer (If present): Depth (inches): Depth (inches): Perpendicular (Inches):	etland hydrology must be present.
Sandy Gleyed Matrix (S4) Restrictive Layer (If present): Type: Depth (inches):	etland hydrology must be present.
Restrictive Layer (if present): Type:	
Type:	c Soil Present? Yes No X
Depth (inches):	c Soil Present? Yes No X
Process Pro	c Soil Present? Yes No
Vetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Wetland Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6)	
Vetland Hydrology Indicators: Irimary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Saturation (A3) Mater Marks (B1) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6)	
rimary Indicators (any one indicator is sufficient) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Dxidized Rhizospheres along Living Roots (C3) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6)	<u> </u>
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) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6)	Secondary Indicators (2 or more required)
High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6)	Water Marks (B1) (Riverine)
Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6)	Sediment Deposits (B2) (Riverine)
Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6)	Drift Deposits (B3) (Riverine)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6)	Drainage Patterns (B10)
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6)	Dry-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6)	Thin Muck Surface (C7)
	Crayfish Burrows (C8)
	Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)
ield Observations:	
1	
/ater Table Present? Yes No _X Depth (inches):	
	14
nciudes capillary fringe) escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if availat	rology Present? Yes No
availate	
emarks:	\
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Project/Site: North County Carrie	do	City/County: _5ta	anislaus	Sampling Date: 4(22/14
Applicant/Owner: Stanislaus County				
Investigator(s): MIKETYUZ DI ON DO Dayhu	Winchell	Section, Township, R	lange:	
Landform (hillslope, terrace, etc.):				
Subregion (LRR):				
Soil Map Unit Name:				
Are climatic / hydrologic conditions on the site typical				
Are Vegetation, Soil, or Hydrology		45-25-25-37		present? Yes No
Are Vegetation, Soil, or Hydrology			needed, explain any answ	
SUMMARY OF FINDINGS - Attach site i		film with a first	The control of the co	
Hydrophytic Vegetation Present? Yes X	No	THE WORLD	engil T L'T (v)	
Hydric Soil Present? Yes		Is the Sample		P
Wetland Hydrology Present? Yes	No	within a Wetla	nd? YesX	No
Remarks:		111111111111111111111111111111111111111	MIN	
	4			
		<u> </u>	- U	
VEGETATION				
Tree Stratum (Use scientific names.)	Absolute		Dominance Test wor	ksheet:
	<u>% Cover</u>	Species? Status	Number of Dominant S	
12.			That Are OBL, FACW	, or FAC: (A)
3. 22 22 11 11 2 2 2 2 2 2 2 2 2 2 2 2 2			Total Number of Domi Species Across All Str	
4.	r	IR RUA	Species Across Air Str	rata: (B)
Total (Cover:		Percent of Dominant S That Are OBL, FACW,	
Sapling/Shrub Stratum				
1.			Prevalence Index wo	
2			Total % Cover of:	
3.				x1 =
4				x 2 =
Water Uch Total	Cover:		1955 1 = 11 14	x 3 = x 4 =
Herb Stratum	50vei	" 1		x5=
1.1 Brassica higha	15	h VPI	O-1 T-1-1-	(A) (B)
2 Ramunerlus Sp.	10	n Facw	50	(0)
3. Trifolium histum		n UPL	Prevalence index	
4. Bromushorda us	15	n - FACU	Hydrophytic Vegetati	
5. Engueria declinata	40	J Facer	X Dominance Test is	
6. Cyen's evogrosts		h Facu	Prevalence Index	
7. Leptdium sp		<u>h</u> -		aptations ¹ (Provide supporting s or on a separate sheet)
8	127		The second secon	phytic Vegetation¹ (Explain)
Voody Vine Stratum	over: 107		SITA BILBI I V	
			¹ Indicators of hydric so	il and wetland hydrology must
			be present.	
Total C	over:	151	Hydrophytic	
	over of Biotic Cr	uet	Vegetation	a V No
	Over or blong CL	usı	Present? Ye	s_X No
Remarks:				
B B B C B B B B B B B B B B B B B B B B				

Color (molet) S. Color (molet) S. Color (molet) S. Type: Location: PL=Pore Lining, RC=Root Channel, M=Matrix.	2 51/ 2511/2	Redox Features				
"Type: C=Concentration, D=Depletion, RM=Reduced Matrix. *Location: PL=Pore Lining, RC=Root Channel, M=Matrix. Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	0-8" 754/3			Loc²	Texture	Remarks
Type: C-Concentration, D-Depletion, RM=Reduced Matrix. **Location: PL=Pore Lining, RC=Root Channel, M=Matrix. Indicators (Applicable to all LRRs, unless otherwise noted.) Histose (AR)						Sandra loss
Histosol (Ar) Sandy Redox (S5) Indicators for Problematic Hydric Soils*: Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) 1 cm Muck (A9) (LRR C) 2 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Reduced Vertic (Fin :		2444
Histosol (A1)						
Histosol (A1)						
Histosol (Ar) Sandy Redox (S5) Indicators for Problematic Hydric Soils*: Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) 1 cm Muck (A9) (LRR C) 2 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Reduced Vertic (
Histosol (Ar) Sandy Redox (S5) Indicators for Problematic Hydric Soils*: Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) 1 cm Muck (A9) (LRR C) 2 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Reduced Vertic (
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)						
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)						
Histosol (Ar) Sandy Redox (S5) Indicators for Problematic Hydric Soils*: Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) 1 cm Muck (A9) (LRR C) 2 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Reduced Vertic (
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)			* ()			
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	Type: C=Concentration D=Depletion RM=Redu	red Matrix 21 ocation:	PI -Pore Li	ning PC	-Boot Chan	not M-Matrix
Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histo Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduce Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Reduce Vertic (F18) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Depleted Below Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleyed Matrix (S4) Loamy Mucky Mineral (S1) Vernal Pools (F9) Pepth (inches): Popth (inches): Popth (inches): Popth (inches): Secondary Indicators (2 or more required) Matrix (B1) (Riverine) Fedox expected in edic ac canditate Fedox expected in edic ac canditate Material (T1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Monriverine) Didice Coder (C1) Dry-Season Water Table (C2) Drift Deposits (B3) (Monriverine) Drift Depos		unless otherwise note	d)	ning, RC		
Histic Epipedon (A2) Black Histic (A3) Black Histic (A3) Black Histic (A3) Loamy Mucky Mineral (F1) Hydrogen Sutifide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Loamy Sideyed Matrix (F3) Torn Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Depleted Below Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Sandy Mucky (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A12) Redox Depressions (F8) Sandy Mucky (Mineral (S1) Sandy Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Vernal Pools (F9) Part (F) Sandy Mucky (Mineral (S1) Sandy Mucky (A9) (LRR D) Red Vernal Redox (F6) Depleted Dark Surface (F6) No wetland hydrology must be present. Retartictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes \(\) No Redox Depressions (F8) Presence (A12) Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Secondary Indicators (2 or more required) Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Drift Deposits (B2) (Riverine) Drift Deposits (B2) (Riverine) Drift Deposits (B2) (Riverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Into (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C7) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Into (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C7) Drift Deposits (B3) Presence of Reduced Into (C4) Saturation Aerial			,			
Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Red Parent Markaria (TF2) Reduced Vertic (F18) Red Parent Markaria (TF2) Young Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Redox Dark Surface (F6) Depleted Bellow Dark Surface (A11) Depleted Dark Surface (F6) Depleted Bellow Dark Surface (A12) Redox Depressions (F8) Parent Markaria (TF2) Yes And Mucky Mineral (S1) Vernal Pools (F9) Indicators of hydrophytic vegetation and wetland hydrology must be present. Popular (Inches): Hydric Soil Present): Type: Hydric Soil Present (S1) Present (S1) Present (S2) Present (S2) Present (S2) Present (S3) Present (S3) Present (S3) Present (S3) Present (S4) Present (S5) Present (S5) Present (S5) Present (Present						
Hydrogen Sulfide (A4)			(E1)			
Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D) 2 pepleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Setrictive Layer (if present): Type: Depit (inches): Bemarks: Hydric Soil Fresent? Yes No Petland Hydrology Indicators: Fedory expected in officer (C1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Positic Poposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Surface Soil Cracks (B6) Present? Yes No Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	-					· / / /
1 cm Muck (A9) (LRR D)			2)			
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleyed Matrix (S4) Lestrictive Layer (If present): Type: Depth (inches): Hydric Soil Present? Yes No Depth (inches): Lemarks: Hydric Soil Present? Yes No Predox expected in our or or of Fiths Fedox expected in our or			6)		T Onles	(Explain in Nomarks)
Thick Dark Surface (A12) Redox Depressions (F8) Sundy Mucky Mineral (S1) Vernal Pools (F9) Sundy Mucky Mineral (S1) Vernal Pools (F9) Sundy Gleyed Matrix (S4) Wetland hydrology must be present. Restrictive Layer (if present): Type: Hydric Soil Present? Yes No Depth (inches): Remarks: Hydric Soil Present? Yes No		-	- /			
Sandy Mucky Mineral (S1) Vernal Pools (F9) 3 indicators of hydrophytic vegetation and wetland hydrology must be present. Vesticitive Layer (if present): Type:						
Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes X No Remarks: How we thank hydrology must be present. Remarks: Hydric Soil Present? Yes X No Remarks: No Remarks: Hydric Soil Present? Yes X No Remarks: No Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Hydrogen Sulfide Odor (C1) Drift Deposits (B2) (Nonriverine) Drift Deposits (B2) (Nonriverine) Drift Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Suturation Visible on Aerial Imagery (C5) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes X No Depth (inches): Surface Water Present? Yes X No Depth (inches): Depth (inches): Surface Soil Cracks (B6) (Stream gauge, monitoring well, aerial photos, previous inspections), if available:			-,		3Indicators	of hydrophytic vegetation and
Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes X No Remarks: Hydric Soil Present? Yes X No Remarks: Hydric Soil Present? Yes X No Remarks: Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Surface Water (A1) High Water Table (A2) Salt Crust (B12) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Riverine) Hydrogen Sulfide Odor (C1) Drift Deposits (B2) (Nonriverine) Drift Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C8) Saturation Visible on Aerial Imagery (C5) Initing Action (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C8) Water-Stained Leaves (B9) Liquidation Visible on Aerial Imagery (P5) Wetland Hydrology Present? Yes X No Depth (inches): Surface Wetland Hydrology Present? Yes X No Depth (inches): Surface Wetland Hydrology Present? Yes X No Depth (inches): Surface Wetland Hydrology Present? Yes X No Depth (inches): Surface Wetland Hydrology Present? Yes X No Depth (inches): Surface Surface Soil Cracks (Stream gauge, monitoring well, aerial photos, previous inspections), if available:						
Type:						my are regy made to proceed.
Depth (inches):				- 1		
PROLOGY Wetland Hydrology Indicators: Surface Water (A1) High Water Table (A2) Sediment Deposits (B3) (Nonriverine) Sediment Deposits (B3) (Nonriverine) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drift Deposits (B2) (Riverine) Drift Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes X No Depth (Inches): Surface Wetland Hydrology Present? Yes X No Dep					libratela O-U	5
YDROLOGY Wetland Hydrology Indicators: Irimary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B3) (Riverine) Drift Deposits (B3) (Riverine) Drift Deposits (B3) (Riverine) Sediment Deposits (B3) (Riverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Riverine) Drift Deposits (B2) (Riverine) Drift Deposits (B2) (Riverine) Drift Deposits (B2) (Riverine) Drift Deposits (B3) (Ri					nyane son	Present? Tes / No
Secondary Indicators (2 or more required)	VDDOLOOV				P ii ii	
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Surface Water (A1)					Secon	dary Indicators (2 or more required)
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	High Water Table (A2)	Biotic Crust (B12)				
Water Marks (B1) (Nonriverine)	_ I light valor rabio (/42)	Aquatic Invertebrates ((B13)			
	Saturation (A3)	Hydrogen Sulfide Odor	r (C1)			
	Saturation (A3) Water Marks (B1) (Nonriverine)		, ,	a Roots	Di	ry-Season Water Table (C2)
	Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres	s along Livin	g Roots	Di (C3) Ti	ry-Season Water Table (C2) nin Muck Surface (C7)
Water-Stained Leaves (B9) FAC-Neutral Test (D5)	Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	Oxidized Rhizospheres Presence of Reduced	s along Livin Iron (C4)	31	(C3) Ti	ry-Season Water Table (C2) nin Muck Surface (C7) rayfish Burrows (C8)
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urface Water Present? Yes Y No Depth (inches): 12 \n\ identifactor Table Present? Yes X No Depth (inches): 5\square\forall Surface atturation Present? Yes X No Depth (inches): 5\square\forall Surface acturation Present? Yes X No Depth (inches): 5\square\forall Surface acturation Present? Yes X No Depth (inches): 5\square\forall Surface acturation Present? Yes X No Depth (inches): 5\square\forall Surface acturation Present? Yes X No Depth (inches): 5\square\forall Surface acturation Present? Yes X No Depth (inches): 5\square\forall Surface acturation Present? Yes X No Depth (inches): 5\square\forall Surface acturation Present? Yes X No Depth (inches): 5\square\forall Surface acturation Present? Yes X No Depth (inches): 5\square\forall Surface acturation Present? Yes X No Depth (inches): 5\square\forall Surface acturation Present? Yes X No Depth (inches): 5\square\forall Surface acturation Present? Yes X No Depth (inches): 5\square\forall Surface acturation Present? Yes X No Depth (inches): 5\square\forall Surface acturation Present? Yes X No Depth (inches): 5\square\forall Surface acturation Present? Yes X No Depth (inches): 5\square\forall Surface acturation Present? Yes X No Depth (inches): 5\square\forall Surface acturation Present? Yes X No Depth (inches): 5\square\forall Surface acturation Present? Yes X No Depth (inches): 5\square\forall Surface acturation Present? Yes X No Depth (inches): 5\square\forall Surface acturation Present? Yes X No Depth (inches): 5\square\forall Surface acturation Present? Yes X No Depth (inches): 5\square\forall Surface acturation Present? Yes X No Depth (inches): 5\square\forall Surface acturation Present? Yes X No Depth (inches): 5\square\forall Surface acturation Present? Yes X No Depth (inches): 5\square\forall Surface acturation Present? Yes X No Depth (inches): 5\square\forall Surface acturation Present? Yes X No Depth (inches): 5\square\forall Surface acturation Present? Yes X No Depth (inches): 5\square\forall Surface acturation Present? Yes X No Depth (inches): 5\squar	Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7)	Oxidized Rhizospheres Presence of Reduced Recent Iron Reduction	s along Livin Iron (C4) in Plowed S	31	Di (C3) Ti Ci Si	ry-Season Water Table (C2) nin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3)
Ves V No Depth (inches): SvxSqcs Wetland Hydrology Present? Yes No Depth (inches): 5vxSqcs Wetland Hydrology Present? Yes No Depth (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)	Oxidized Rhizospheres Presence of Reduced Recent Iron Reduction	s along Livin Iron (C4) in Plowed S	31	Di (C3) Ti Ci Si	ry-Season Water Table (C2) nin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3)
aturation Present? Yes No Depth (inches): 5 Wetland Hydrology Present? Yes No Depth (inches): 5 V Sact Wetland Hydrology Present? Yes No Secribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	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) leid Observations:	Oxidized Rhizospheres Presence of Reduced Recent Iron Reduction Other (Explain in Rema	s along Livin Iron (C4) in Plowed S arks)	31	Di (C3) Ti Ci Si	ry-Season Water Table (C2) nin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 nallow Aquitard (D3)
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emarks:	Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Water-Stained Leaves (B9) Water Atlanta Present? Water Table Present?	Oxidized Rhizospheres Presence of Reduced Recent Iron Reduction Other (Explain in Remains): Depth (inches): Depth (inches): Depth (inches):	s along Livin Iron (C4) in Plowed S arks)	Wetland	Di Ti Ci Si Fi	ry-Season Water Table (C2) hin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 hallow Aquitard (D3) https://www.accentriction.com/second/second-second-second-second-second-second-second-sec
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	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) Seld Observations: Urface Water Present? Ves Y No Vater Table Present? Yes No Describe Recorded Data (stream gauge, monitoring	Oxidized Rhizospheres Presence of Reduced Recent Iron Reduction Other (Explain in Remains): Depth (inches): Depth (inches): Depth (inches):	s along Livin Iron (C4) in Plowed S arks)	Wetland	Di Ti Ci Si Fi	ry-Season Water Table (C2) hin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9 hallow Aquitard (D3) https://www.accentriction.com/second/second-second-second-second-second-second-second-sec

Project/Site: North County Cor	ida	City/Cour	nty: 5ta	anislaus	Sampling Date: 122/19
Applicant/Owner: Stanislaus County				State: CA	Sampling Point: 21 A
Investigator(s): MIKETYUZHI OOd/Da	na Winchell	Section,	Township, R	ange:	, Willer II.
Landform (hillslope, terrace, etc.):					
Subregion (LRR):					
Soil Map Unit Name:					to the second se
Are climatic / hydrologic conditions on the site typic					0 9
Are Vegetation, Soil, or Hydrology					s" present? YesX_ No
Are Vegetation, Soil, or Hydrology	114 7110			eeded, explain any ans	
SUMMARY OF FINDINGS – Attach site	3				
	No <u>X</u>				
	NoX		the Sample		Y
	No X	Wi	thin a Wetla	nd? Yes	NoX
Remarks:	pland data	point	t.		
/EGETATION					
	Absolute		nt Indicator	Dominance Test wo	rksheet:
<u>Tree Stratum</u> (Use scientific names.)			? Status	Number of Dominant	
1				That Are OBL, FACW	/, or FAC:(A)
2				Total Number of Dorr Species Across All St	
4				Percent of Dominant	
Tot <u>Sapling/Shrub Stratum</u>	al Cover:			That Are OBL, FACW	
1				Prevalence Index we	orksheet:
2				Total % Cover of	: Multiply by:
3.					x1=
4. <u>13 = 15 n </u>				FACW species	x 2 =
5.				FAC species	x 3 =
	al Cover:				x 4 =
Herb Stratum 1. Hordern murinum lexicidum	1.00	V	UPL		x 5 =
			UPL	Column Totals:	(A) (B)
2. Brassica nigra		Y	UPL	Prevalence Inde	ex = B/A =
malra parriflura	10	N	UPL	Hydrophytic Vegetat	
			4524 LETU I	Dominance Test	
0.				Prevalence Index	: is ≤3.0¹
				Morphological Ad	aptations1 (Provide supporting
713					ks or on a separate sheet)
	I Cover:			Problematic Hydr	ophytic Vegetation ¹ (Explain)
Voody Vine Stratum				1 materials	
				Indicators of hydric so be present.	oil and wetland hydrology must
Teta	l Cover:			Hydrophytic	
	7,61			Vegetation	
	Cover of Biotic Cr	ust		Present? Y	es No _X
Remarks:					

	ription: (Describe	to the depth n	eeded to docur	nent the indicato	r or confirm	the absence	Sampling Point: 21+4
Depth	Matrix		Redo	x Features			
(inches)	Color (moist)		Color (moist)	%Type ¹	Loc ²	Texture	Remarks
3-3	7.5 YR 34	700	100		<u> </u>	M	Sandy Com
							U
	ncentration, D=Depl		luced Matrix.	² Location: PL=Pc	ore Lining, RC	=Root Chann	el, M=Matrix.
	ndicators: (Applica	able to all LRR	s, unless other	wise noted.)	28 VIII	Indicators	for Problematic Hydric Soils ³ :
_ Histosol			Sandy Redo				luck (A9) (LRR C)
Histic Ep Black His	ipedon (A2)		Stripped Ma	· ·			luck (A10) (LRR B)
	n Sulfide (A4)			xy Mineral (F1) ed Matrix (F2)			ed Vertic (F18) arent Material (TF2)
	Layers (A5) (LRR C	1)	Depleted Ma				Explain in Remarks)
	ck (A9) (LRR D)	·	Redox Dark			0	Esplain in Nomarkoy
	Below Dark Surface	(A11) _	Depleted Da	rk Surface (F7)			
	rk Surface (A12)	-	Redox Depre				
	ucky Mineral (S1) eyed Matrix (S4)		Vernal Pools	(F9)			of hydrophytic vegetation and
Sondy Cl						wetland	hydrology must be present.
	ayer (if present):	<u> </u>					
lestrictive L	ayer (if present):			=		Hydric Soil I	
Type: Depth (inclemarks:	ayer (if present):						
Type: Depth (inclemarks:	ayer (if present):	SØN					
Type: Depth (inclemarks:	nes):	SØ11					
estrictive L Type: Depth (inclemarks:	nes):	SØN				Hydric Soli I	
estrictive L Type: Depth (incl emarks: DROLOG etland Hydi	eyer (if present): nes): cry Nard <					Hydric Soll I	Present? Yes No
estrictive L Type: Depth (incl emarks: DROLOG etland Hydi	nes):		Salt Crust (I	311)		Hydric Soil I	Present? Yes No
estrictive L Type: Depth (inclemarks: // // // // // // // // // // // //	nes):		-			Hydric Soil I	Present? Yes No
estrictive L Type: Depth (inclemarks: // // // // // // // // // // // //	nes):		Salt Crust (I			Second Water Second Sec	dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine)
DROLOG etland Hydi imary Indica Surface W High Wate Saturation Water Ma	rology Indicators: tors (any one indicators (A1) er Table (A2) (A3) rks (B1) (Nonrivering	or is sufficient)	Salt Crust (I Biotic Crust Aquatic Inve	(B12) ertebrates (B13) ulfide Odor (C1)		Second Second Second Dri Dri Dri Dry	dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine)
Depth (inclemarks: DROLOG etland Hydinary Indica Surface W High Wate Saturation Water Ma: Sediment	rology Indicators: // tetr (A1) / Table (A2) / (A3) / Deposits (B2) (Nonrivering	or is sufficient) e) iverine)	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh	(B12) ertebrates (B13) ulfide Odor (C1) izospheres along	Living Roots	Second Was Se Dri Dry (C3) Thi	dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) fit Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7)
Depth (inclements: Depth	rology Indicators: (A1) ar Table (A2) (A3) rks (B1) (Nonrivering sits (B3) (Nonrivering sit	or is sufficient) e) iverine)	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of	(B12) Interprete (B13)	Living Roots	Second Was Se Dri Dra Cra (C3) Thi	dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) fit Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8)
Depth (inclemarks: Depth	rology Indicators: (AT) (Nonrivering Sits (B3) (Nonrivering Sits (B6)) (Nonrivering Sits (B6))	e) iverine)	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron	(B12) Prtebrates (B13) Ulfide Odor (C1) Prizospheres along Reduced Iron (C4) Reduction in Plow	Living Roots	Second Was Se Dri Dra (C3) Thi Cra)	dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C5)
DROLOG etland Hydrimary Indica Surface W High Water Ma: Sediment Drift Depo Surface Si Inundation	rology Indicators: tors (any one indicators (A1) ar Table (A2) (A3) rks (B1) (Nonrivering (B2) (Nonrivering (B3) (Nonrivering (B3) (Nonrivering (B4) (Nonriv	e) iverine)	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron	(B12) Interprete (B13)	Living Roots	Second War Se Dri Dry Cra Cra Sai Shi Sh	Ary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (Csallow Aquitard (D3)
Depth (inclemarks: Surface Water Mater Surface Su	respective for the second seco	e) iverine)	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron	(B12) Prtebrates (B13) Ulfide Odor (C1) Prizospheres along Reduced Iron (C4) Reduction in Plow	Living Roots	Second War Se Dri Dry Cra Cra Sai Shi Sh	dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C5)
Depth (inclemarks: Depth (inclemarks: DROLOG etland Hydrimary Indica Surface W High Water Saturation Water Mar Sediment Drift Depo Surface Si Inundation Water-Sta	rology Indicators: tors (any one indicators) (A3) rks (B1) (Nonrivering its (B3) (Nonriv	e) riverine) ne) agery (B7)	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Other (Expla	(B12) Intebrates (B13) Intebrates (B13) Interpreted (C1) Izospheres along Reduced Iron (C4) Reduction in Plowain in Remarks)	Living Roots	Second War Se Dri Dry Cra Cra Sai Shi Sh	Ary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (Csallow Aquitard (D3)
Depth (inclemarks: Depth (inclemarks: DROLOG Type: Depth (inclemarks: DROLOG Type: DROLOG Type: DROLOG Type: Type: DROLOG Type: Type: Type: Type: DROLOG Type:	rology Indicators: tors (any one indicators (any one indicators) rology Indicators: tors (any one indicators) rater (A1) rater (A1) rater (A2) rates (B2) (Nonrivering (B3) (N	e) riverine) ne) agery (B7)	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Other (Expla	(B12) Intebrates (B13) Intelligence (B13) I	Living Roots	Second War Se Dri Dry Cra Cra Sai Shi Sh	Ary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (Csallow Aquitard (D3)
Depth (inclemarks: Depth (inclemarks: DROLOG Vetland Hydrogen High Water Saturation Water Mar Sediment Drift Depo Surface Sediment Unift Depo Surface Sediment Drift Depo Surface Sediment Unift Depo Surface Sediment S	rology Indicators: tors (any one indicators (any one indicators) rater (A1) or Table (A2) rater (B1) (Nonrivering (B3) (e) iverine) agery (B7) NoNo	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Other (Expla	(B12) Interpreted (B13) Interp	Living Roots 4) yed Soils (C6)	Second Wall Second Wall Second Dri Dri Dri Cra Cra Shall FA	dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) fit Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C4 allow Aquitard (D3) C-Neutral Test (D5)

Project/Site: North County Corr Applicant/Owner: Stanislaus County					
nvestigator(s): MIKETruchlood/Dag	nawnchell	Section	Township P	ange:	
andform (hillslope, terrace, etc.):					9/. \.
ubregion (LRR):					
oil Map Unit Name:					
re climatic / hydrologic conditions on the site typica					
re Vegetation, Soil, or Hydrology _				"Normal Circumstances" present? Yes	
re Vegetation, Soil, or Hydrology _				needed, explain any answers in Remarks.)	NO
UMMARY OF FINDINGS - Attach site					ras. f
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? YesX	No	is	the Sample	d Area und? Yes No	20 2 10
Remarks: Soil criteria not used,	Deep invac	la tren	and ins	ised bank prohibit pit disgin	ð.
EGETATION		2.0			1
ree Stratum (Use scientific names.)		Species	nt Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:	(A)
0 = 3 (//4/2				Total Number of Dominant Species Across All Strata:	(B)
Tota	Cover:			Percent of Dominant Species That Are OBL, FACW, or FAC:	_ (A/
	8 E			Prevalence Index worksheet:	
				Total % Cover of: Multiply by:	
171	1			OBL species x 1 =	
				FACW species x 2 =	
				FAC species x 3 =	
orb Stratum	Cover:			FACU species x 4 =	
Nasturtium Officinale	30	M	Obl	UPL species x 5 = Column Totals: (A)	
Festica perrenis	30_	4	FACW	Column Totals(A)	— (E
Cyperus enogroshs	5	ň	FACE	Prevalence Index = B/A =	
Rumex Chispus		<u>n</u>	22-33-2-11	Hydrophytic Vegetation Indicators:	T _{gr} =
Typha sp.		1	061	Dominance Test is >50%	
isersia oryzoides	<u> </u>	n		Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supp	_4!
				data in Remarks or on a separate shee	orang et)
Total	Cover: 82		11 14	Problematic Hydrophytic Vegetation¹ (Exp	
oody Vine Stratum	COVER.				
ELIGN	Ludacado a	H End	= 1 1	¹Indicators of hydric soil and wetland hydrology	/ must
William and the first of the	<u> </u>			be present.	Щщ
Total	Cover:			Hydrophytic	
Bare Ground in Herb Stratum %	Cover of Biotic Cr	ust		Vegetation	
emarks:					
The nasturtium is in the me banks	water u	mte	MEF	estica is located on	

•	^	11	
Э	u	и	

Sampling Point:

Depth Matrix	Redox Features		
(inches) Color (moist) %		oc ² Texture	Remarks
			
			
	<u> </u>		
Type: C=Concentration, D=Depletion, RM=Rec	duced Matrix. ² Location: PL=Pore Lin	ing, RC=Root Cha	nnel. M=Matrix.
hydric Soil Indicators: (Applicable to all LRF			rs for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)		Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S6)		Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F1)		uced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)		
1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6)	Orue	r (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)		
Thick Dark Surface (A12)	Redox Depressions (F8)		
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	3Indicator	s of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)	voinar vois (1 3)		d hydrology must be present.
Restrictive Layer (if present):		Wettan	d hydrology must be present.
Type:			
Denth (inches):		i Hardela Cat	II D
Depth (inches):		nyaric so	il Present? Yes No
Remarks:	• 1	nyaric so	II Present / Tes No
Remarks:	1, 10, 51, 51, 51, 51, 51, 51, 51, 51, 51, 51		
Remarks: Unable todig a holder	Ive to strepbanks	andining	
Remarks: Unable todig a holder	Ive to strep banks	andining	
Remarks:	lue to strepbankson Soilchtena exclu	andining	
Remarks: Unable todig a holder	lue to strepbankson Soilchtena exclu	andining	
Remarks: Unable todig a hold of water too deep todig YDROLOGY	lue to strepbankson Soilchtena exclu	and inina	lahon
Remarks: Unable to dig a hold of water too deep to dig YDROLOGY Wetland Hydrology Indicators:	· Soilchtena exclu	and inina	endary Indicators (2 or more required)
Remarks: Unable to dig a hold of water too deep to dig YDROLOGY Vetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient)	. Soilchteria exclu	and ininaded.	endary Indicators (2 or more required) Water Marks (B1) (Riverine)
Remarks: Unable todig a hold of water too deep to dig	· Soilchtena exclu	and ininaded.	endary Indicators (2 or more required)
Remarks: Vnable to dig a hold of water too deep to dig YDROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicator is sufficient)	. Soilchteria exclu	and inina ded Seco	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Remarks: Vnable to dig a hold of water too deep to dig Voltand Hydrology Indicators: rimary Indicators (any one indicator is sufficient) C Surface Water (A1) High Water Table (A2)	Soll Crust (B11) Biotic Crust (B12)	and inina ded Seco	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Remarks: Unable to dig a hold of water too deep to dig YDROLOGY Vetland Hydrology Indicators: Irimary Indicators (any one indicator is sufficient) C Surface Water (A1) High Water Table (A2) Saturation (A3)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)	seco	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Pemarks: Vnable to dig a hold of water too deep to dig VDROLOGY Vetland Hydrology Indicators: Irimary Indicators (any one indicator is sufficient) C Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	seco	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
Proposite to dig a holid water too deep to dig YDROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicator is sufficient Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	Solicyteria 2xclv Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living	Second In made of the distribution of the dist	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7)
Primary Indicators (any one indicator is sufficient of Saturation (A3) Water Toble (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Drift Deposits (B3) (Nonriverine)	Salt Crust (B11) Salt Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4)	Second In made of the distribution of the dist	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8)
Proposits (B3) (Nonriverine) Surface Soil Cracks (B6)	Salt Crust (B11) Salt Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Sci	Second In made of the distribution of the dist	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7)
Proposits (B3) (Nonriverine) Dirace Soil Cracks (B6) Innudation Visible on Aerial Imagery (B7)	Salt Crust (B11) Salt Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4)	Second In Mand	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8)
Proposits (B3) (Nonriverine) Surface Soil Cracks (B6)	Salt Crust (B11) Salt Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Sci	Second In Mand	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Proposits (B3) (Nonriverine) Dirace Soil Cracks (B6) Innual Control of the proposits (B7) Remarks: Proposits (B3) Remarks: Proposits (B4) Remarks: Proposits (B6) Inundation Visible on Aerial Imagery (B7)	Salt Crust (B11) Salt Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Sci	Second In Mand	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Proposits (B2) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Sc Other (Explain in Remarks)	Second In Mand	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Proposits (B2) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Water Water Present? Water Marks: Water Marks (B1) (Nonriverine) Surface Soil Cracks (B6)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Sc Other (Explain in Remarks)	Second In Mand	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Proposition (Page 1) Proposition (Page 1) Proposition (Page 2) Propositi	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Sc Other (Explain in Remarks)	Second In Made de d. Second In Made d. Second In	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Proposition (Present? Yes X No autration Present?	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Sc Other (Explain in Remarks)	Second In Made de d. Second In Made d. Second In	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Proposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water Table Leaves (B9) Water Table Present? Wes A No accludes capillary fringe)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Sc Other (Explain in Remarks) Depth (inches): Juysace Depth (inches): Juysace Note of the control of the	Second In Market And In Market	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Proposits (B3) (Nonriverine) Surface Soll Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water Table Present? Water Table Present? Water Table Present? Water Table Present? Water Marks (B9) Water Marks (B1) (Nonriverine) Surface Soll Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water Table Present? Wes X No Saturation Present? Wes X No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Sc Other (Explain in Remarks) Depth (inches): Juysace Depth (inches): Juysace Note of the control of the	Second In Market And In Market	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Proposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water Table Leaves (B9) Water Table Present? Wes A No accludes capillary fringe)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Sc Other (Explain in Remarks) Depth (inches): Juysace Depth (inches): Juysace Note of the control of the	Second In Market And In Market	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Proposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water Table Leaves (B9) Water Table Present? Wes A No accludes capillary fringe)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Sc Other (Explain in Remarks) Depth (inches): Juysace Depth (inches): Juysace Note of the control of the	Second In Market And In Market	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
PROLOGY Vetland Hydrology Indicators: Inimary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Veter-Stained Leaves (B9)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Sc Other (Explain in Remarks) Depth (inches): Juysace Depth (inches): Juysace Note of the control of the	Second In Market And In Market	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
PROLOGY Vetland Hydrology Indicators: Immary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soll Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Vetal Observations: Urface Water Present? Ves X No Vater Table Present? Ves X No Ves X	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Sc Other (Explain in Remarks) Depth (inches): Juysace Depth (inches): Juysace Note of the control of the	Second In Market And In Market	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
PROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) eld Observations: urface Water Present? Yes X No later Table Present? Yes X No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Sc Other (Explain in Remarks) Depth (inches): Juysace Depth (inches): Juysace Note of the control of the	Second In Market And In Market	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)

Project/Site: North (westy (orrice	dor City	County: ST4	nnslavs	Sampling Date: 6/6/2015
Applicant/Owner: Stanislavs (w				
Investigator(s): Miles Trueblood				ALMS C DE
Landform (hillslope, terrace, etc.):				
Subregion (LRR):				
Soil Map Unit Name:				
Are climatic / hydrologic conditions on the site typic				
Are Vegetation, Soil, or Hydrology _				"present? Yes X No
Are Vegetation, Soil, or Hydrology			eeded, explain any answ	
SUMMARY OF FINDINGS - Attach site		· ·		
	No ✓	Edward Frag		
	No	Is the Sample		
	No	within a Wetla	nd? Yes	No
Remarks:				
VEGETATION				
PEGETATION	Absolute Dor	minant Indicator	Dominance Test wor	kehaati
Tree Stratum (Use scientific names.)		ecies? Status	Number of Dominant	
1			That Are OBL, FACW	
2			Total Number of Domi	inant .
3.			Species Across All Str	•
4			Percent of Dominant S	Snecies 6
Tota Sapling/Shrub Stratum	al Cover:		That Are OBL, FACW	
1			Prevalence Index wo	rkshoot:
2.			Total % Cover of:	
3.				x1=
4.			FACW species	
5.				x 3 =
	al Cover:			x 4 =
Herb Stratum				x 5 =
1. Faxtura perennis	100% Ke	s UPL		(A)(B)
2				
3				x = B/A =
4			Hydrophytic Vegetati	
5			Dominance Test is	
3			Prevalence Index	
7			data in Remark	aptations ¹ (Provide supporting
3	1 -01			ophytic Vegetation ¹ (Explain)
Tota Woody Vine Stratum	I Cover: 100%	ark in	mili Y	
I.			¹ Indicators of hydric so	il and wetland hydrology must
			be present.	
	Cover:		Hydrophytic	
	Cover of Biotic Crust		Vegetation Present? Ye	es No 🗸
	COVER OF BIOLIC CRUST		Present? Te	98 NO _V
Remarks:				

Sampling Point: 23

Depth Matrix		ox Features			
(inches) Color (moist) %		%Type ¹	_Loc ²	Texture	Remarks
0-10" 7.54R 3/2 100	<u> </u>			1100/	Sanch loca
					- moltani
		- <u>- </u>			
Type: C=Concentration, D=Depletion, lydric Soil Indicators: (Applicable to	RM=Reduced Matrix.	² Location: PL=Pore	e Lining, R		
Histosol (A1)		emerge and was a			or Problematic Hydric Soils ³ :
Histic Epipedon (A2)	Sandy Red Stripped Ma				uck (A9) (LRR C)
Black Histic (A3)		ky Mineral (F1)			uck (A10) (LRR B) d Vertic (F18)
Hydrogen Sulfide (A4)		ed Matrix (F2)			
Stratified Layers (A5) (LRR C)	Depleted M				rent Material (TF2) Explain in Remarks)
1 cm Muck (A9) (LRR D)		Surface (F6)		Outer (E	-vhimit ti i /citialivə)
Depleted Below Dark Surface (A11)		ark Surface (F7)			
Thick Dark Surface (A12)		ressions (F8)			
Sandy Mucky Mineral (S1)	Vernal Pool			3Indicators o	f hydrophytic vegetation and
_ Sandy Gleyed Matrix (S4)					ydrology must be present.
lestrictive Layer (if present):					<u> </u>
Type:					
Debui (inches):				Hydric Soil P	resent? Yes No V
Depth (inches):				Hydric Soil F	resent? Yes No
Remarks:				Hydric Soil F	resent? Yes No
Pemarks:				Ä	
YDROLOGY Vetland Hydrology Indicators:	ufficient)			Second	ary Indicators (2 or more required)
Remarks: YDROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicator is s		(R11)		Second	ary Indicators (2 or more required) ter Marks (B1) (Riverine)
Portional Remarks: **TOROLOGY **Toronal Remarks **Toronal Remarks	Salt Crust			Second Wa Sec	arv Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine)
YDROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicator is s Surface Water (A1) High Water Table (A2)	Salt Crust	t (B12)		Second Wa Sec Drift	ary Indicators (2 or more required) ter Marks (B1) (Riverine) liment Deposits (B2) (Riverine) t Deposits (B3) (Riverine)
YDROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicator is s _ Surface Water (A1) _ High Water Table (A2) _ Saturation (A3)	Salt Crust Biotic Crus Aquatic Inv	t (B12) ertebrates (B13)	i de s	Second Wa Sec Drift	ary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10)
POROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicator is s Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	Salt Crust Biotic Crus Aquatic Inv Hydrogen S	t (B12) vertebrates (B13) Sulfide Odor (C1)		Second Wa Sec Drit Dra Dry	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2)
POROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicator is s Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	Salt Crust Biotic Crus Aquatic Inv Hydrogen 9 Oxidized R	t (B12) ertebrates (B13) Sulfide Odor (C1) hizospheres along L	iving Root	Second Wa Sec Drit Dra Dry S (C3)	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2)
Por Cology Vetland Hydrology Indicators: rimary Indicators (any one indicator is s Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	Salt Crust Biotic Crus Aquatic Inv Hydrogen S e) Oxidized R Presence of	t (B12) ertebrates (B13) Sulfide Odor (C1) hizospheres along L of Reduced Iron (C4)	iving Root	Second 	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) n Muck Surface (C7) yfish Burrows (C8)
YDROLOGY Vetland Hydrology Indicators: rimary Indicators (any one indicator is s 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 Biotic Crus Aquatic Inv Hydrogen S e) Oxidized R Presence c Recent Iror	t (B12) vertebrates (B13) Sulfide Odor (C1) hizospheres along L of Reduced Iron (C4) n Reduction in Plowe	iving Root	Second 	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) n Muck Surface (C7) yfish Burrows (C8)
Verland Hydrology Indicators: rimary Indicators (any one indicator is s 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	Salt Crust Biotic Crus Aquatic Inv Hydrogen S e) Oxidized R Presence c Recent Iror	t (B12) ertebrates (B13) Sulfide Odor (C1) hizospheres along L of Reduced Iron (C4)	iving Root	Second Wa Sec Drit Dra Dry s (C3) Thic Cra 6) Sat	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2)
Por Cology Vetland Hydrology Indicators: rimary Indicators (any one indicator is s Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9)	Salt Crust Biotic Crus Aquatic Inv Hydrogen S e) Oxidized R Presence c Recent Iror	t (B12) vertebrates (B13) Sulfide Odor (C1) hizospheres along L of Reduced Iron (C4) n Reduction in Plowe	iving Root	Second	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) n Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C9
Por Cology Vetland Hydrology Indicators: rimary Indicators (any one indicator is s Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9)	Salt Crust Biotic Crus Aquatic Inv Hydrogen S e) Oxidized R Presence c Recent Iror	t (B12) vertebrates (B13) Sulfide Odor (C1) hizospheres along L of Reduced Iron (C4) n Reduction in Plowe	iving Root	Second	ary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) in Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 Illow Aquitard (D3)
Por Control of the co	Salt Crust Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror (B7) Other (Exp	t (B12) rertebrates (B13) Sulfide Odor (C1) hizospheres along L of Reduced Iron (C4) Reduction in Plowe lain in Remarks)	iving Root	Second	ary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) in Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 Illow Aquitard (D3)
Por Control of the co	Salt Crust Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror (B7) Other (Exp	t (B12) rertebrates (B13) Sulfide Odor (C1) hizospheres along L of Reduced Iron (C4) Reduction in Plowe lain in Remarks)	iving Root	Second	ary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) in Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 Illow Aquitard (D3)
Vetland Hydrology Indicators: rimary Indicators (any one indicator is s Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) eld Observations: urface Water Present? yes aturation Present? Yes	Salt Crust Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence C Recent Iror Other (Exp No V Depth (inc	t (B12) ertebrates (B13) Sulfide Odor (C1) hizospheres along L of Reduced Iron (C4) n Reduction in Plowe lain in Remarks) hes): 710''	iving Root	Second Wa Sec Drit Dra Dry s (C3) Thin Cra 6) Sat Sha FAC	ary Indicators (2 or more required) ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) in Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 Illow Aquitard (D3)
Process YDROLOGY Vetland Hydrology Indicators: Primary Indicators (any one indicator is some second seco	Salt Crust Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror (B7) Other (Exp No V Depth (inc	t (B12) ertebrates (B13) Sulfide Odor (C1) hizospheres along L of Reduced Iron (C4) n Reduction in Plowe lain in Remarks) hes): 710 hes): 710	iving Root ed Soils (C	Second Wa Second FAC	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) in Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 illow Aquitard (D3) c-Neutral Test (D5)
Process Pro	Salt Crust Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror (B7) Other (Exp No V Depth (inc	t (B12) ertebrates (B13) Sulfide Odor (C1) hizospheres along L of Reduced Iron (C4) n Reduction in Plowe lain in Remarks) hes): 710 hes): 710	iving Root ed Soils (C	Second Wa Second FAC	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) in Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 illow Aquitard (D3) c-Neutral Test (D5)
Primary Indicators: Primary Indicators (any one indicator is s Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Ield Observations: urface Water Present? Yes Vater Table Present?	Salt Crust Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror (B7) Other (Exp No V Depth (inc	t (B12) ertebrates (B13) Sulfide Odor (C1) hizospheres along L of Reduced Iron (C4) n Reduction in Plowe lain in Remarks) hes): 710 hes): 710	iving Root ed Soils (C	Second Wa Second FAC	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) in Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 illow Aquitard (D3) c-Neutral Test (D5)
Process Pro	Salt Crust Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror (B7) Other (Exp No V Depth (inc	t (B12) ertebrates (B13) Sulfide Odor (C1) hizospheres along L of Reduced Iron (C4) n Reduction in Plowe lain in Remarks) hes): 710 hes): 710	iving Root ed Soils (C	Second Wa Second FAC	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) in Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 illow Aquitard (D3) c-Neutral Test (D5)
Process Pro	Salt Crust Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror (B7) Other (Exp No V Depth (inc	t (B12) ertebrates (B13) Sulfide Odor (C1) hizospheres along L of Reduced Iron (C4) n Reduction in Plowe lain in Remarks) hes): 710 hes): 710	iving Root ed Soils (C	Second Wa Second FAC	ary Indicators (2 or more required) ter Marks (B1) (Riverine) timent Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) in Muck Surface (C7) yfish Burrows (C8) uration Visible on Aerial Imagery (C8 illow Aquitard (D3) C-Neutral Test (D5)

Project/Site: North County Corridor		City/Coun	ity: St	antslaus	Sampling Date: 6/6/101
Applicant/Owner: Stantslavs County					
Investigator(s): Mike Treblood	136	Section, 7	Township, R	lange:	PERMIT
Landform (hillslope, terrace, etc.):					
Subregion (LRR):					
Soil Map Unit Name:					
Are climatic / hydrologic conditions on the site typical for the					
Are Vegetation, Soil, or Hydrology					es" present? Yes X No No
Are Vegetation, Soil, or Hydrology				needed, explain any ans	
SUMMARY OF FINDINGS – Attach site map					
Journal of Findings - Attach site map	Silowing	Sampin	ng point	locations, transet	cts, important features, etc.
	No	ls t	the Sample	d Area	
Hydric Soil Present? Yes			hin a Wetla		V No
Wetland Hydrology Present? Yes	No			_	
Remarks:					
	11	34-11	181		
/EGETATION					
Total Charles (Hannais NE)	Absolute		t Indicator	Dominance Test w	orksheet:
Tree Stratum (Use scientific names.)		Species'		Number of Dominan	
12.				That Are OBL, FAC	W, or FAC: (A)
3				Total Number of Doi Species Across All S	•
4.					
	or:		-	Percent of Dominant That Are OBL, FAC\	
Sapling/Shrub Stratum			_		
1. Rubus armentialus				Prevalence Index w	
2				Total % Cover o	
3					40 x1= 40 10 x2= 20
4 5				FAC species	
	r: 20%				20 x4= 80
Herb Stratum					10 x5= 50
1. Typha latitula	10%	NO	ObL	Column Totals:	85 (A) 205 (B)
2. Rumercr.spus	<u> 5%</u>	NO	Fac		THE PERSON NAMED IN COLUMN
3. Cypanis arasiostis	10%	_No_	Facw	Prevalence Ind	
Festiva perennis	12/	CA,	DAL	Hydrophytic Vegeta	
5. Abgrecta checlinata	30%	Yas	ObL	Dominance Test ✓ Prevalence Inde	
					daptations ¹ (Provide supporting
3.				data in Rema	arks or on a separate sheet)
	r: 65%			Problematic Hyd	lrophytic Vegetation ¹ (Explain)
Noody Vine Stratum	. 03/6			3.2	
N De la		45			soil and wetland hydrology must
				be present.	
Total Cover	-			Hydrophytic	
% Bare Ground in Herb Stratum 2 0 %	of Biotic Cr	ust		Vegetation Present?	Yes No
Remarks:					

		oth needed to docu			or confin	m the absence	e of indicators.)
Depth Ma (inches) Color (moi	trix st) %	Color (mojst)	ox Features %	Type ¹	Loc2	Texture	is proper areas
0-12" 7.5m 4/2		5 YR 3/4	10%		LOC	lexture	Remarks
0-11 /.Sic -11	70 10	311(3/4	10 /		<u>m</u>	- 14	Sandy loca
			<u> </u>				IN III JENO LA KINE III
					9-11		280000
		T					
			16.				
10 35 X 1				1			the state of the s
			1-0	4-04-0			
				· ·			
Type: C=Concentration, D	=Depletion, RM=	Reduced Matrix.	² Location:	PL=Pore	Lining F	RC=Root Chan	nel, M=Matrix.
Hydric Soil Indicators: (A				d.)			for Problematic Hydric Soils ³ :
Histosol (A1)		Sandy Red	ox (S5)			1 cm M	Muck (A9) (LRR C)
Histic Epipedon (A2)		Stripped Ma				2 cm M	Muck (A10) (LRR B)
Black Histic (A3)		Loamy Muc	-				ed Vertic (F18)
Hydrogen Sulfide (A4)	DD (0)	Loamy Gley		F2) .			arent Material (TF2)
Stratified Layers (A5) (L 1 cm Muck (A9) (LRR D		Depleted M Redox Dark		·e/		Other	(Explain in Remarks)
Depleted Below Dark Si		Depleted D	-	-			
Thick Dark Surface (A12		Redox Dep					
Sandy Mucky Mineral (S	•	Vernal Pool		-,		3Indicators	of hydrophytic vegetation and
Sandy Gleyed Matrix (S			- ()				hydrology must be present.
Type: Depth (inches):	it):					Hydric Soil	Present? Yes V No
Type: Depth (inches):	it):					Hydric Soll	Present? Yes V No
Type: Depth (inches): Remarks:	(t):		કહેં!		30%	Hydric Soll	Present? Yes No
Type: Depth (inches): Remarks:			9,51	26. 8			Present? Yes No
Type: Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicate	ors:		5,ê1 (26. 8		Secon	en e
Type: Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicate	ors:			V.L., S.		Secon W	dary Indicators (2 or more required) /ater Marks (B1) (Riverine)
Type: Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicate the company and company	ors:	ient)	(B11)	2.L ₂ &	10 L		dary Indicators (2 or more required) /ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine)
Type: Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators (any one in graph of the surface Water (A1)	ors:	ient) Salt Crust ((B11) t (B12)		Tork	Secon W Secon De	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine)
Type: Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicate rimary Indicators (any one i Surface Water (A1) High Water Table (A2)	ors:	ient) Salt Crust (Biotic Crus Aquatic Inv	(B11) t (B12)	(B13)	Solve	Secon W Secon De	dary Indicators (2 or more required) /ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine)
Type: Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicate Primary Indicators (any one i Surface Water (A1) High Water Table (A2) Saturation (A3)	ors: ndicator is suffic	ient) Salt Crust (Biotic Crus Aquatic Inv Hydrogen \$	(B11) t (B12) vertebrates (Sulfide Odor	(B13) r (C1)		Secon W Se De De	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Pattems (B10)
Depth (inches): Primary Indicators (any one i grange Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonri	ors: ndicator is suffic verine) (Nonriverine)	ient) Salt Crust Biotic Crus Aquatic Inv Hydrogen S Oxidized R	(B11) t (B12) vertebrates (Sulfide Odor	(B13) r (C1) s along Li	iving Roo	Secon W Secon Di Di Di Secon	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2)
Type:	ors: Indicator is suffice Verine) (Nonriverine) (iverine)	ient) Salt Crust Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence c	(B11) t (B12) vertebrates (Sulfide Odoi hizospheres	(B13) r (C1) s along Li iron (C4)	iving Roo	Secon W Secon Di Di Cr Cr Cr Cr Cr Cr Cr C	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) nin Muck Surface (C7) rayfish Burrows (C8)
Type:	ors: ndicator is suffic verine) (Nonriverine) iverine)	ient) Salt Crust Biotic Crus Aquatic Inv Hydrogen S Oxidized R Recent Iror	(B11) t (B12) rertebrates (Sulfide Odor hizospheres of Reduced	(B13) r (C1) s along Li fron (C4) in Plowe	iving Roo	Secon W Se De De De De Cs Cs Cs	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) nin Muck Surface (C7)
Type:	ors: ndicator is suffic verine) (Nonriverine) iverine)	ient) Salt Crust Biotic Crus Aquatic Inv Hydrogen S Oxidized R Recent Iror	(B11) t (B12) rertebrates (Sulfide Odor hizospheres of Reduced	(B13) r (C1) s along Li fron (C4) in Plowe	iving Roo	Secon W Secon Di Di Th Sc(C3) Th Cr Secon Secon	dary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) nin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C
Type:	ors: ndicator is suffic verine) (Nonriverine) iverine)	ient) Salt Crust Biotic Crus Aquatic Inv Hydrogen S Oxidized R Recent Iror	(B11) t (B12) rertebrates (Sulfide Odor hizospheres of Reduced	(B13) r (C1) s along Li fron (C4) in Plowe	iving Roo	Secon W Secon Di Di Th Sc(C3) Th Cr Secon Secon	dary Indicators (2 or more required) (ater Marks (B1) (Riverine) (adirect Deposits (B2) (Riverine) (adirect Deposits (B3) (Riverine) (adirect Deposits (B10) (adirect Deposits
Type:	ors: Indicator is sufficiently Verine) (Nonriverine) iverine) ial Imagery (B7)	ient) Salt Crust Biotic Crus Aquatic Inv Hydrogen S Oxidized R Recent Iror	(B11) t (B12) vertebrates (Sulfide Odol hizospheres of Reduced n Reduction lain in Rema	(B13) r (C1) s along Li fron (C4) in Plowe	iving Roo	Secon W Secon Di Di Th Sc(C3) Th Cr Secon Secon	dary Indicators (2 or more required) (ater Marks (B1) (Riverine) (adirect Deposits (B2) (Riverine) (adirect Deposits (B3) (Riverine) (adirect Deposits (B10) (adirect Deposits
Type:	verine) (Nonriverine) iverine) ial Imagery (B7) 9)	ient) Salt Crust Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence co Recent Iror Other (Exp	(B11) t (B12) vertebrates (Sulfide Odol hizospheres of Reduced n Reduction lain in Rema	(B13) r (C1) s along Li iron (C4) in Plowe arks)	iving Roo	Secon W Secon Di Di Th Sc(C3) Th Cr Secon Secon	dary Indicators (2 or more required) (ater Marks (B1) (Riverine) (adirect Deposits (B2) (Riverine) (adirect Deposits (B3) (Riverine) (adirect Deposits (B10) (adirect Deposits
Type:	verine) (Nonriverine) iverine) ial Imagery (B7) 9) Yes No Yes No	ient) Salt Crust Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror Other (Expl	(B11) It (B12) Pertebrates (Sulfide Odor hizospheres of Reduced in Reduction lain in Remainships hes):	(B13) r (C1) s along Li iron (C4) in Plowe arks)	iving Roof	Secon W Secon Secon W Secon Seco	dary Indicators (2 or more required) (ater Marks (B1) (Riverine) (adirect Deposits (B2) (Riverine) (adirect Deposits (B3) (Riverine) (adirect Deposits (B10) (adirect Deposits
Type:	verine) (Nonriverine) iverine) ial Imagery (B7) 9) Yes No Yes No	ient) Salt Crust Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror Other (Expl	(B11) It (B12) Pertebrates (Sulfide Odor hizospheres of Reduced in Reduction lain in Remainships hes):	(B13) r (C1) s along Li iron (C4) in Plowe arks)	iving Roof	Secon W Secon Secon W Secon Seco	dary Indicators (2 or more required) (ater Marks (B1) (Riverine) (adirect Deposits (B2) (Riverine) (adirect Deposits (B3) (Riverine) (adirect Deposits (B10) (adirect Deposits

Project/Site: North (unty Corrido: Applicant/Owner: Stanfolaus (Cinta.	A .	multime Daint 14
	,					
nvestigator(s): Mike True blood						
andform (hillslope, terrace, etc.):						
ubregion (LRR):	Lat:			Long:		Datum:
oil Map Unit Name:				NWI	classification	n:
re climatic / hydrologic conditions on the site typical t	for this time of ye	ar?_Yes	X No	(If no, exp	lain in Rema	rks.)
re Vegetation, Soil, or Hydrology	significantly	disturbed?	Are	"Normal Circumst	ances" prese	nt? Yes <u>X</u> No
re Vegetation, Soil, or Hydrology	naturally pro	blematic?	(if n	eeded, explain an	y answers in	Remarks.)
UMMARY OF FINDINGS - Attach site n	nap showing	samplii	ng point	locations, trar	nsects, im	portant features, e
Hydrophytic Vegetation Present? Yes	No	In 4	ha Carrela	Mark Mark Mark	a viii I.g.Ji	110 1198 (1161 1-9). ⁹
	No		he Sample hin a Wetla		••	No_✓
Wetland Hydrology Present? Yes	No	With	iiii a vveua	na r	98	NO V
EGETATION			11 100			
	Absolute		Indicator	Dominance Te	st workshee	t:
ree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dom		
				That Are OBL, F	FACW, or FA	C:(A)
WIND SERVED AS A SERVED IN A S				Total Number of		2
				Species Across	All Strata:	(B)
Total C	Cover:			Percent of Dom		500
apling/Shrub Stratum				That Are OBL, F	-ACW, or FA	C: <u>50/6</u> (A/E
				Prevalence ind		
					ver of:	
				OBL species		
		- 0				x2= <u>40</u>
Total C			THE STATE OF			x3= <u>36</u> x4= <u>40</u>
erb Stratum	cover:			UPL species		$x4 = \underline{40}$ $x5 = \underline{150}$
Browns hande a caus	10%	NO	Facu	Column Totals:		(A) <u>281</u> (B
Glycerta declinate	1090	NO.	ObL	Column Totals.	VWE	(A) <u>411</u> (B
Festuca perennis	30%	Yes	UR	Prevalence	e Index = B/	A = 3.73
Types Fenuis	20%	4-4	Fyar	Hydrophytic Ve	getation Ind	licators:
Eleocharis macrostachya	5%	NO	ObL		Test is >50%	
Runny Crispus	<u> </u>	NO	Fac		Index is ≤3.0	
Lymus Triticords	10%	NO	Fac	Morphologic	cal Adaptation temarks or or	ns ¹ (Provide supporting na separate sheet)
						Vegetation ¹ (Explain)
Total Coody Vine Stratum	over: <u>\$7%</u>			-m Vc	,,	
V 12				1Indicators of hy	dric soil and v	wetland hydrology must
				be present.		
Total C	over:			Hydrophytic		
. 0.	over of Biotic Cru	et		Vegetation	Voc	No. 1
	אים אים ויי ויייי	191		Present?	Yes	No_ _
emarks:						

-	_		
•		u	
•	u		_

Sampling Point: 24a

	Matrix -	Redo	x Features	3	. 3	Achte NA		Whee'v)
(inches) Calor (n		Color (moist)	<u> </u>	Type ¹	_Loc²	Texture	Labour T. C	Remarks
2.5443	/3 <u>951</u>	1.570 4/6	S%.		_M	1975)	Sandy	logh
			<u> </u>					
Type: C=Concentration,			² Location:	PL=Pore	Lining, R		nel, M=Matrix.	
lydric Soil Indicators:	(Applicable to all	LRRs, unless other	wise note	d.)	Ne	Indicators	for Problema	tic Hydric Soils ³ :
Histosol (A1)		Sandy Redo				and the second s	fuck (A9) (LRF	
Histic Epipedon (A2)		Stripped Ma					luck (A10) (LR	
Black Histic (A3)	,	Loamy Mucl	_			•	ed Vertic (F18)	
Hydrogen Sulfide (A4		Loamy Gley		(F2) .			erent Material (
Stratified Layers (A5)1 cm Muck (A9) (LRR		Depleted Ma		-e\		Other (Explain in Ren	narks)
Depleted Below Dark		✓ Redox Dark		•				
Depleted Below Dark Thick Dark Surface (A	` '	Depleted Da						
Sandy Mucky Mineral	-	Vernal Pools		0)		3Indicators	of buduoub, die	
Sandy Gleyed Matrix		Vernal Fools	(F 8)				or nyaropnyuc hydrology mus	vegetation and
Restrictive Layer (if pres				2311		Wettand	nyurology mus	st de present.
Type:	,.							
TYPE.								
Depth (inches): Remarks:					± 1	Hydric Soil	Present? Y	es No
Depth (inches):						Hydric Soil	Present? Y	es No
Depth (inches):	ators:		2			w Troi		
Depth (inches):		cient)				Second	dary Indicators	(2 or more required)
Depth (inches): Remarks: /DROLOGY /etland Hydrology Indic			R11)		2	Second Wa	dary Indicators ater Marks (B1	(2 or more required)) (Riverine)
Depth (inches):	e indicator is suffic	Salt Crust (I	-			<u>Second</u> Wa	dary Indicators ater Marks (B1 diment Depos	(2 or more required)) (Riverine) its (B2) (Riverine)
Depth (inches):	e indicator is suffic	Salt Crust (I	(B12)	(P12)		<u>Second</u> Wa	dary Indicators ater Marks (B1 diment Depos ift Deposits (B:	(2 or more required)) (Riverine) its (B2) (Riverine) 3) (Riverine)
Depth (inches):	e indicator is suffic	Salt Crust (I Biotic Crust Aquatic Inve	(B12) ertebrates			Second Wing Se Dri Dri	dary Indicators ater Marks (B1 diment Depos ift Deposits (B: ainage Pattern	(2 or more required)) (Riverine) its (B2) (Riverine) 3) (Riverine) s (B10)
Depth (inches):	e indicator is suffic	Salt Crust (I Biotic Crust Aquatic Inve	(B12) ertebrates ulfide Odo	r (C1)	To.	Second Was Se Dri Dri Dri	dary Indicators ater Marks (B1 diment Depos ift Deposits (B: ainage Pattern y-Season Wate	(2 or more required)) (Riverine) its (B2) (Riverine) 3) (Riverine) s (B10) er Table (C2)
Depth (inches): Remarks: POROLOGY Vetland Hydrology Indiction From From Indicators (any one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Note Sediment Deposits (B2)	e indicator is suffic nriverine) 2) (Nonriverine)	Salt Crust (I Biotic Crust Aquatic Inve	(B12) ertebrates ulfide Odo nizosphere	r (C1) s al ong Li	iving Root	Second 	dary Indicators ater Marks (B1 diment Depos ift Deposits (B: ainage Pattern y-Season Watr in Muck Surfac	(2 or more required)) (Riverine) its (B2) (Riverine) 3) (Riverine) s (B10) er Table (C2)
Depth (inches): Remarks: POROLOGY Vetland Hydrology Indiction Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Notes the control of the co	e indicator is suffic nriverine) 2) (Nonriverine) nriverine)	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Ri Presence of	(B12) ertebrates sulfide Odo nizospheres Reduced	r (C1) s along Li Iron (C4)	iving Root	Second — Wi — Se — Dri — Dri — Dr. — Cri — Cri	dary Indicators ater Marks (B1 diment Depos iff Deposits (B: ainage Pattern y-Season Wate in Muck Surfac ayfish Burrows	(2 or more required)) (Riverine) its (B2) (Riverine) 3) (Riverine) s (B10) er Table (C2) ce (C7)
Depth (inches): Cemarks: CPROLOGY Vetland Hydrology Indicemary Indicators (any one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Noe Sediment Deposits (B2) Drift Deposits (B3) (Noe Surface Soil Cracks (B	e indicator is suffic nriverine) 2) (Nonriverine) onriverine) 6)	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron	(B12) ertebrates duffide Odo nizospheres Reduced Reduction	r (C1) s along Li Iron (C4) i in Plowe	iving Root	Second — Wa — Se — Dri — Dri — Cri — Cri — Cri — Sa	dary Indicators ater Marks (B1 diment Depos ift Deposits (B: ainage Pattern y-Season Wate in Muck Surfac ayfish Burrows turation Visible	(2 or more required)) (Riverine) its (B2) (Riverine) 3) (Riverine) s (B10) er Table (C2) ce (C7) (C8) e on Aerial Imagery (C9)
Depth (inches): Clemarks: CPROLOGY Vetland Hydrology Indiction Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Noto Sediment Deposits (B3) Drift Deposits (B3) (Noto Surface Soil Cracks (B Inundation Visible on A	e indicator is suffic nriverine) 2) (Nonriverine) enriverine) 6) erial Imagery (B7)	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron	(B12) ertebrates duffide Odo nizospheres Reduced Reduction	r (C1) s along Li Iron (C4) i in Plowe	iving Root	Second — Wa — Se — Dri — Dra — Dra — Cra — Cra — 6)	dary Indicators ater Marks (B1 diment Depos ift Deposits (B: ainage Pattern y-Season Wate in Muck Surfac ayfish Burrows turation Visible allow Aquitard	(2 or more required)) (Riverine) its (B2) (Riverine) 3) (Riverine) s (B10) er Table (C2) ce (C7) (C8) on Aerial Imagery (C9) (D3)
Depth (inches): Clemarks: CPROLOGY Vetland Hydrology Indiction Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Notote Sediment Deposits (B3) (Notote Surface Soil Cracks (Base) Inundation Visible on Aaan Water-Stained Leaves	e indicator is suffic nriverine) 2) (Nonriverine) enriverine) 6) erial Imagery (B7)	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron	(B12) ertebrates duffide Odo nizospheres Reduced Reduction	r (C1) s along Li Iron (C4) i in Plowe	iving Root	Second — Wa — Se — Dri — Dra — Dra — Cra — Cra — 6)	dary Indicators ater Marks (B1 diment Depos ift Deposits (B: ainage Pattern y-Season Wate in Muck Surfac ayfish Burrows turation Visible	(2 or more required)) (Riverine) its (B2) (Riverine) 3) (Riverine) s (B10) er Table (C2) ce (C7) (C8) on Aerial Imagery (C9) (D3)
Depth (inches): Remarks: POROLOGY Vetland Hydrology Indiction (any one surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Noe Sediment Deposits (B3) (Noe Surface Soil Cracks (Base Inundation Visible on Aaa Water-Stained Leaves eld Observations:	e indicator is sufficentiverine) (2) (Nonriverine) (3) (Nonriverine) (6) (6) (89)	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Other (Expla	(B12) ertebrates (ulfide Odo nizosphere: f Reduced Reduction ain in Rema	r (C1) s along Li Iron (C4) i in Plowe	iving Root	Second — Wa — Se — Dri — Dra — Dra — Cra — Cra — 6)	dary Indicators ater Marks (B1 diment Depos ift Deposits (B: ainage Pattern y-Season Wate in Muck Surfac ayfish Burrows turation Visible allow Aquitard	(2 or more required)) (Riverine) its (B2) (Riverine) 3) (Riverine) s (B10) er Table (C2) ce (C7) (C8) on Aerial Imagery (C9) (D3)
Depth (inches): Clemarks: CPROLOGY Vetland Hydrology Indiction Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Notote Sediment Deposits (B3) (Notote Surface Soil Cracks (Base) Inundation Visible on Aaan Water-Stained Leaves	e indicator is sufficentiverine) (2) (Nonriverine) (3) (Nonriverine) (6) (6) (B9) Yes N	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Other (Expla	(B12) ertebrates (ulfide Odo nizosphere: f Reduced Reduction ain in Rem:	or (C1) s along Li Iron (C4) in Plower arks)	iving Root	Second — Wa — Se — Dri — Dra — Dra — Cra — Cra — 6)	dary Indicators ater Marks (B1 diment Depos ift Deposits (B: ainage Pattern y-Season Wate in Muck Surfac ayfish Burrows turation Visible allow Aquitard	(2 or more required)) (Riverine) its (B2) (Riverine) 3) (Riverine) s (B10) er Table (C2) ce (C7) (C8) on Aerial Imagery (C9) (D3)
Depth (inches): Remarks: POROLOGY Vetland Hydrology Indiction (any one surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Noe Sediment Deposits (B3) (Noe Surface Soil Cracks (Base Inundation Visible on Aaa Water-Stained Leaves eld Observations:	e indicator is sufficentiverine) (2) (Nonriverine) (3) (Nonriverine) (6) (6) (B9) Yes N	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Other (Expla	(B12) ertebrates (ulfide Odo nizosphere: f Reduced Reduction ain in Rem:	or (C1) s along Li Iron (C4) in Plower arks)	iving Root	Second — Wa — Se — Dri — Dra — Dra — Cra — Cra — 6)	dary Indicators ater Marks (B1 diment Depos ift Deposits (B: ainage Pattern y-Season Wate in Muck Surfac ayfish Burrows turation Visible allow Aquitard	(2 or more required)) (Riverine) its (B2) (Riverine) 3) (Riverine) s (B10) er Table (C2) ce (C7) (C8) on Aerial Imagery (C9) (D3)
Depth (inches): Remarks: POROLOGY Vetland Hydrology Indicators (any one surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Noe Sediment Deposits (B2) Drift Deposits (B3) (Noe Surface Soil Cracks (B2) Inundation Visible on A2 Water-Stained Leaves eld Observations: urface Water Present? aturation Present? aturation Present?	nriverine) 2) (Nonriverine) 6) Nerial Imagery (B7) (B9) Yes N Yes N	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Other (Expla	(B12) ertebrates entitled Odo nizosphere: f Reduced Reduction ain in Remains.	or (C1) s along Li Iron (C4) in Plower arks)	d Soils (C	Second Wing Se Dri Dri Dri Cri Ss (C3) Th Cri Sh FA	dary Indicators ater Marks (B1 diment Depos ift Deposits (B: ainage Pattern y-Season Wate in Muck Surfac ayfish Burrows turation Visible allow Aquitard C-Neutral Tes	(2 or more required)) (Riverine) its (B2) (Riverine) 3) (Riverine) s (B10) er Table (C2) ce (C7) (C8) e on Aerial Imagery (C9) t (D3)
Depth (inches): Remarks: POROLOGY Vetland Hydrology Indice rimary Indicators (any one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Noe Sediment Deposits (B3) (Noe Surface Soil Cracks (Be Inundation Visible on A Water-Stained Leaves eld Observations: Jurface Water Present? Jurface Water Present? Jurface Water Present?	nriverine) 2) (Nonriverine) 6) Nerial Imagery (B7) (B9) Yes N Yes N	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Other (Expla	(B12) ertebrates entitled Odo nizosphere: f Reduced Reduction ain in Remains.	or (C1) s along Li Iron (C4) in Plower arks)	d Soils (C	Second Wing Se Dri Dri Dri Cri Ss (C3) Th Cri Sh FA	dary Indicators ater Marks (B1 diment Depos ift Deposits (B: ainage Pattern y-Season Wate in Muck Surfac ayfish Burrows turation Visible allow Aquitard C-Neutral Tes	(2 or more required)) (Riverine) its (B2) (Riverine) 3) (Riverine) s (B10) er Table (C2) ce (C7) (C8) e on Aerial Imagery (C9) t (D3)
Depth (inches): Remarks: POROLOGY Vetland Hydrology Indicators (any one surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Noe Sediment Deposits (B3) (Noe Surface Soil Cracks (Be Inundation Visible on Ae Water-Stained Leaves eld Observations: Jurface Water Present? Jurface Water Present Present Present Present Present Present Present Present Present Presen	nriverine) 2) (Nonriverine) 6) Nerial Imagery (B7) (B9) Yes N Yes N	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Other (Expla	(B12) ertebrates entitled Odo nizosphere: f Reduced Reduction ain in Remains.	or (C1) s along Li Iron (C4) in Plower arks)	d Soils (C	Second Wing Se Dri Dri Dri Cri Ss (C3) Th Cri Sh FA	dary Indicators ater Marks (B1 diment Depos ift Deposits (B: ainage Pattern y-Season Wate in Muck Surfac ayfish Burrows turation Visible allow Aquitard C-Neutral Tes	(2 or more required)) (Riverine) its (B2) (Riverine) 3) (Riverine) s (B10) er Table (C2) ce (C7) (C8) e on Aerial Imagery (C9) t (D3)
Depth (inches): Remarks: POROLOGY Vetland Hydrology Indicators (any one surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Noe Sediment Deposits (B2) Drift Deposits (B3) (Noe Surface Soil Cracks (B2) Inundation Visible on A2 Water-Stained Leaves eld Observations: urface Water Present? aturation Present? aturation Present?	nriverine) 2) (Nonriverine) 6) Nerial Imagery (B7) (B9) Yes N Yes N	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Other (Expla	(B12) ertebrates entitled Odo nizosphere: f Reduced Reduction ain in Remains.	or (C1) s along Li Iron (C4) in Plower arks)	d Soils (C	Second Wing Se Dri Dri Dri Cri Ss (C3) Th Cri Sh FA	dary Indicators ater Marks (B1 diment Depos ift Deposits (B: ainage Pattern y-Season Wate in Muck Surfac ayfish Burrows turation Visible allow Aquitard C-Neutral Tes	(2 or more required)) (Riverine) its (B2) (Riverine) 3) (Riverine) s (B10) er Table (C2) ce (C7) (C8) e on Aerial Imagery (C9) t (D3)
Depth (inches): Compared to the content of the con	nriverine) 2) (Nonriverine) 6) Nerial Imagery (B7) (B9) Yes N Yes N	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Other (Expla	(B12) ertebrates entitled Odo nizosphere: f Reduced Reduction ain in Remains.	or (C1) s along Li Iron (C4) in Plower arks)	d Soils (C	Second Wing Se Dri Dri Dri Cri Ss (C3) Th Cri Sh FA	dary Indicators ater Marks (B1 diment Depos ift Deposits (B: ainage Pattern y-Season Wate in Muck Surfac ayfish Burrows turation Visible allow Aquitard C-Neutral Tes	(2 or more required)) (Riverine) its (B2) (Riverine) 3) (Riverine) s (B10) er Table (C2) ce (C7) (C8) e on Aerial Imagery (C9 (D3) t (D5)

Applicant/Owner: Stants-lave County Section, Township, Range: Local relief (concave, convex, none): Slope (%) Subregion (LRR): Subregion (LR): Subregion (LR	Project/Site: North County Corridor	Ci	y/County:S	Tanislavs	Sampling Date: 6/6/2
Section, Township, Range: Solope (%) Local relief (concave, convex, none): Slope (%) Subregion (LRR): Lat: Local relief (concave, convex, none): Slope (%) Subregion (LRR): Lat: Local relief (concave, convex, none): Datum: Solope (%) Subregion (LRR): Local relief (concave, convex, none): Slope (%) Subregion (LRR): Local relief (concave, convex, none): Slope (%) Subregion (LRR): Local relief (concave, convex, none): Slope (%) Subregion (LRR): Local relief (concave, convex, none): Slope (%) Subregion (LRR): Local relief (concave, convex, none): Slope (%) Subregion (LRR): Local relief (concave, convex, none): Slope (%) Subregion (LRR): Local relief (concave, convex, none): Slope (%) Concave, convex, none): Concave, convex, none Concave, convex, n	Applicant/Owner: Stantslaw County			State: C	Sampling Point: 15
Definition De					
No	andform (hillslope, terrace, etc.):	Lo	cal relief (conca	ive, convex, none):	Slope (%):
No	Subregion (LRR):	Lat:		Long:	Datum:
re climatic / hydrologic conditions on the site typical for this time of year? Yes					
re Vegetation Soil or Hydrology significantly disturbed? Are 'Normal Circumstances' present? Yes No Interest Number of Dominant Species Across Al Stratum Total Cover: Factor of Dominant Species Stratum Factor of Dominant Species Stratum Total Cover: Factor of Dominant Species Stratum Factor of Dominant Species Stratum Total Cover: Factor of Dominant Indicator Strat					
Total Cover: To					
### Attach site map showing sampling point locations, transects, important feature ### Hydrophytic Vegetation Present? ### Yes No within a Wetland? ### Wetland Hydrology Present? ### No within a Wetland? ### No within a Wetland? ### No within a Wetland hydrology no be present. #### No within a Wetland hydrology no be present. #### No within a Wetland hydrology no be present. ####################################					
Hydrophytic Vegetation Present? Hydrophytic Vegetation Present		7 7			
Welland Hydrology Present? Yes No Within a Wetland? Yes No Welland Hydrology Present? Yes No Within a Wetland? Yes		72.4	ii Gilipalianes	Markette Leater	
No					i la interni
Absolute Dominant Indicator Species Status Number of Dominant Species That Are OBL, FACW, or FAC: O Total Number of Dominant Species Across All Stratus Absolute Absolute Species Status Species Across All Stratus Absolute Absolute Absolute Species Across All Stratus			within a We	etland? Yes	No <u>/</u>
Absolute	irriguled past	lire - ap	preximately	30 cattle in	field during surray
Number of Dominant Species That Are OBL, FACW, or FAC: OTOTAL Number of Dominant Species That Are OBL, FACW, or FAC: OTOTAL Number of Dominant Species That Are OBL, FACW, or FAC: OTOTAL Number of Dominant Species That Are OBL, FACW, or FAC: OTOTAL Are OBL, FACW, or FACW, or FAC: OTOTAL Are OBL, FACW, or FACW, or FACW, or FACW, or FA	EGETATION			- 10110	
Total Cover: Section Stratum Total Cover: To	Tree Stratum (Use scientific names.)				
Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC:				- I Manuper of Domina	
Total Cover: Species Across All Strata: Total Cover: Species Across All Strata: Species Across All Strata: Total Spec					
Total Cover: To					
Total Cover: That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species				Percent of Domina	
Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x1 = FACW species x2 = FAC species x3 = FACU species x4 = UPL species x5 = Column Totals: (A) Prevalence Index = B/A = Hundry have have been year and year					
Total % Cover of: Multiply by: OBL species				Prevalence Index	workshoot
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Horden North Legaridae 5 to No UPL Dominance Test is >50% And the Morphological Adaptations (Provide support data in Remarks or on a separate sheet) Total Cover: 100% Total Cover:					ndex = B/A =
Tri Salitum hirfum 10 10 N 0 UPL					
Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide support data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain to problematic Hydrophytic Soil and wetland hydrology in the present. Hydrophytic Vegetation				_	
					lex is ≤3.0 ¹
Total Cover:				Morphological	Adaptations ¹ (Provide supporting
Total Cover: 1 Indicators of hydric soil and wetland hydrology in be present. Hydrophytic Vegetation Present? Yes No No			7		
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Bare Ground in Herb Stratum % Cover of Biotic Crust Present? Yes No				Indicators of hadde	s coil and watered by deal-
Bare Ground in Herb Stratum					son and wetland hydrology mus
Bare Ground in Herb Stratum % Cover of Biotic Crust Present? Yes No				Hydrophytic	
				Vegetation	Yes No V
emarks:	emarks:				

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Sampling Point: 15

Color (molet) Section	Depth	Matrix			ox Features				The state of the s
Type: C=Concentration, D=Depletion, RM=Reduced Matrix. **Location: PL=Pore Lining, RC=Root Channel, M=Matrix. 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 (Applicable to Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*: Histosc (AS)			%_	Color (moist)		Type ¹	_Loc ²	Texture	Remarks
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosci (A1)	3-12" 7.541	2317	8510	SYR 3/4	15%		<u></u>		Sandy loam
Histosol (A1)									(d) TO SOLVE HER PROPERTY.
Histosol (A1)							dicti		11 11 W
Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A1) Sandy Redox (S5) Siripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Suffide (A4) Loamy Gleyed Matrix (F2) Straitfied Layers (A5) (LRR C) To Mtuck (A9) (LRR D) Fredox Dark Surface (A11) Thick Dark Surface (A11) Thick Dark Surface (A11) Thick Dark Surface (A11) Thick Dark Surface (A11) Sandy Mucky Mineral (F2) Redox Dark Surface (F7) Redox Dark Surface (F7) Redox Dark Surface (F7) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Wethand hydrology Indicators: marks: **DROLOGY** ### Mark (B1) (Riverine) ### Muck (B1) (Riverine) ### Muck (B1) (Riverine) ### Salt Crust (B11) Surface Water (A1) ### Salt Crust (B11) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Surface Soil Cracks (B9) #### Ober Matrix (P2) #### Water Aber (P3) ####	Pt 10				0.	X			
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ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosci (A1)						-	11)		
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Depth (inches):	Type:								
PROLOGY Petland Hydrology Indicators: Secondary Indicators (2 or more required)									
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Photopoint #1: Data Point #1.



Photopoint # 3: Data Points # 2a and 2b.



Photopoint # 2: Data Point # 2.



Photopoint # 4: Data Point # 3.



Page 1

Representative Photos



Photopoint # 5: Data Point # 4.



Photopoint # 7: Data Points # 7 and 7a.



Photopoint # 6: Seasonal marsh swale near Data Points 4 through 6. APN # 010-072-004.



Photopoint #8: Data Points #8.



Representative Photos



Photopoint # 9: Data Point # 9.



Photopoint # 11: Data Point # 11.



Photopoint # 10: Data Point # 10.



Photopoint # 12: Data Points # 12 and 12a.



Representative Photos



Photopoint # 13: Data Point # 14.



Photopoint # 15: Data Point # 14d.



Photopoint # 14: Data Points # 14a and 14b.



Photopoint # 16: Data Point # 15.



Representative Photos



Photopoint # 17: Data Point # 15c.



Photopoint # 19: Data Points # 17 and 17a.



Photopoint # 18: Data Points # 16 and 16a.



Photopoint # 20: Data Point # 18.



Representative Photos



Photopoint # 21: Data Point # 19.



Photopoint # 23: Data Point # 21.



Photopoint # 22: Data Points # 20 and 20a.



Photopoint # 24: Data Point # 22.



Representative Photos



Photopoint #25: Newly planted orchard; previously seasonal wetlands. APN #010-041-039.



Photopoint # 27: Dredged irrigation ditch. APN # 014-002-014.



Photopoint # 26: Typical irrigation ditch in orchard. APN # 064-031-032.



Photopoint # 28: Cattail marsh next to Stearns Road. APN # 064-029-017.



Representative Photos



Photopoint # 29: Irrigated pasture and ditch. APN # 011-016-023.



Photopoint # 31: Cavill Drain Irrigation ditch at Claribel Road. APN # 014-049-001.



Photopoint # 30: Inundated pool in irrigated pasture adjacent to Claribel Road. APN # 075-025-011.



Photopoint # 32: Wetland ditch in irrigated pasture. APN # 062-025-005.



Representative Photos



Photopoint # 33: Irrigation ditch in agricultural field. APN # 063-027-002.



Photopoint # 34: Irrigated pasture. APN # 010-040-004.



Representative Photos

Appendix D Summary of Waters of the U.S. by Build Alternative

Summary of Potential Waters of the U.S. in the Study Area by Build Alternative

	Alternative 1A	Alternative 1B	Alternative 2A	Alternative 2B
Seasonal Wetland	1.59	6.33	2.63	10.52
Perennial Marsh	11.71	9.78	8.28	3.29
Ponds	2.85	3.26	5.28	3.74
Ditches	6.40	6.60	6.00	7.09
Canal	10.56	19.97	15.48	18.88
Irrigated Wetlands	0.42	0.66	2.57	3.41
Total	33.53	46.60	40.24	46.93