APPENDIX I

DELINEATION OF WATERS OF THE U. S. REPORT

DELINEATION OF WATERS OF THE UNITED STATES

IONE BAND OF MIWOK INDIANS

CASINO PROJECT

JULY 2004

Lead Agency:

U.S. Department of the Interior, Bureau of Indian Affairs Pacific Region, 2800 Cottage Way, Room W-2820 Sacramento, CA 95825-1846

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Prepared For:

U.S. Department of the Interior, Bureau of Indian Affairs Pacific Region, 2800 Cottage Way, Room W-2820 Sacramento, CA 95825-1846

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Delineation Data Sheets

DELINEATION OF WATERS OF THE U.S., 230 ± ACRE IONE CASINO STUDY AREA, AMADOR COUNTY, CALIFORNIA

JULY 2004

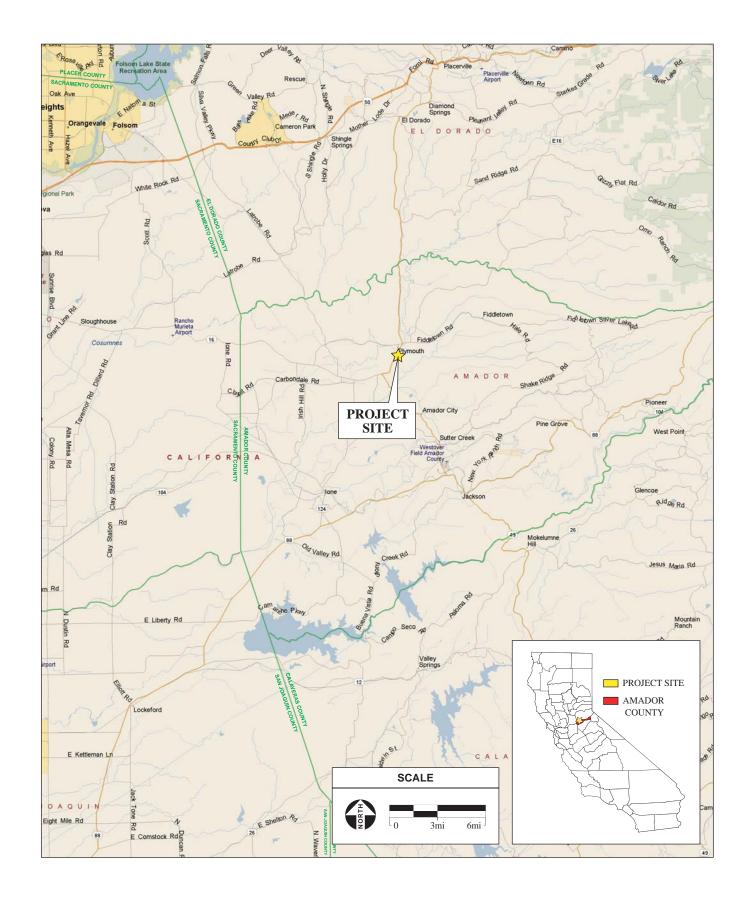
1.0 INTRODUCTION

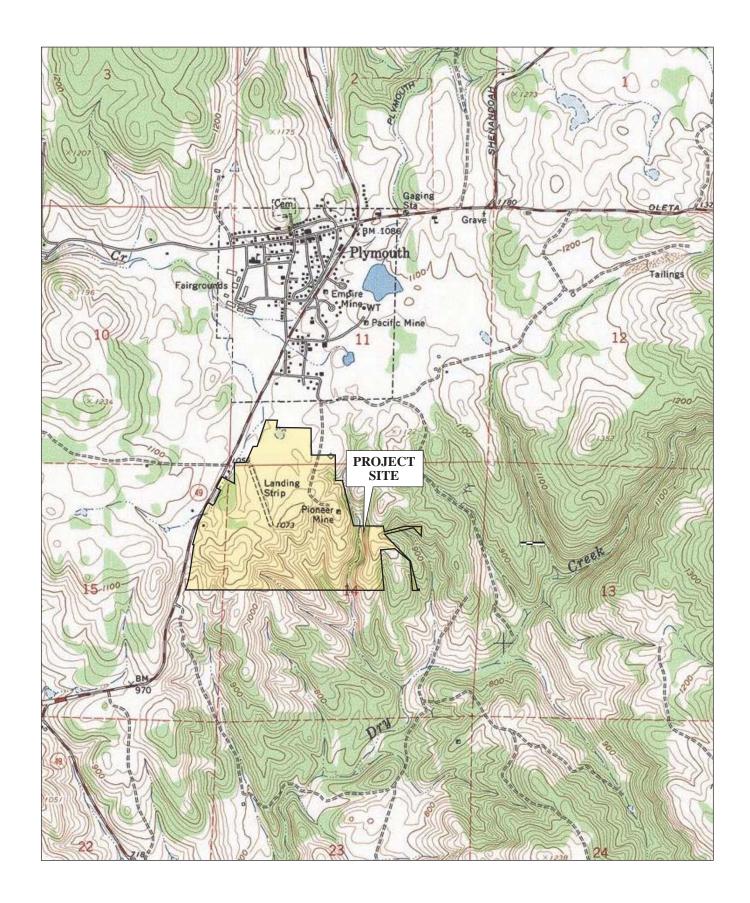
Analytical Environmental Services (AES) has conducted a formal delineation of "waters of the U.S." occurring within the $230 \pm$ acre Ione Casino study area. The study area includes $10\pm$ -acres of land located within the City of Plymouth, while the remaining acres are located on unincorporated land within Amador County (**Figure 1**). This location is found within portions of Sections 14 and 15 of Township 7 North, Range 10 East, Mount Diablo Baseline and Meridian, on the "Amador City, Calif." U.S. Geological Survey 7.5-minute quadrangle map (**Figure 2**). The project area is shown on an aerial photograph in **Figure 3**.

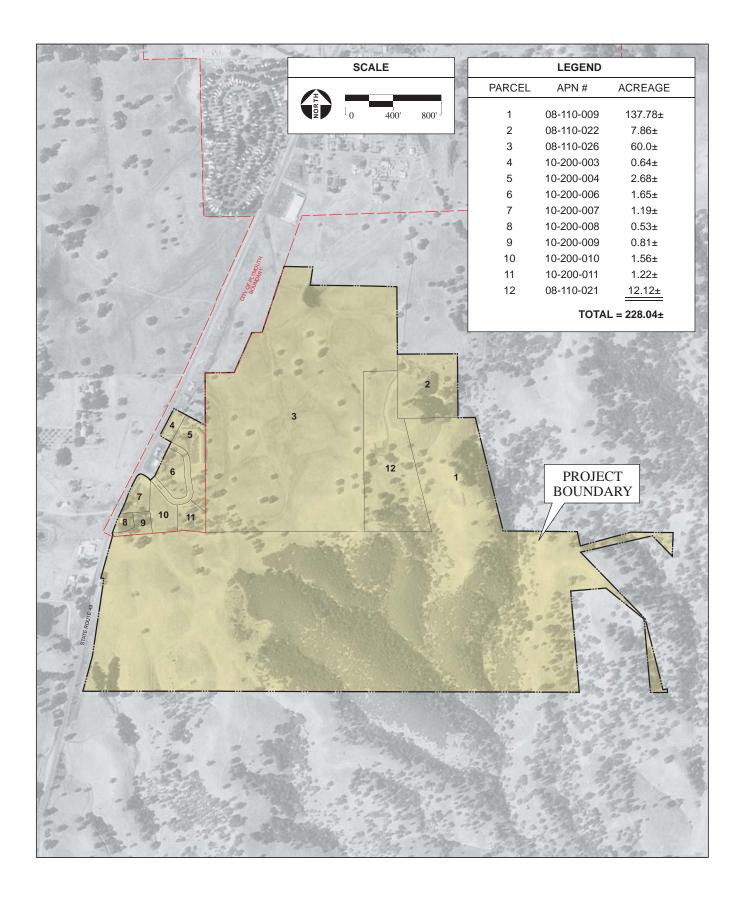
2.0 ENVIRONMENTAL SETTING

Amador County is moderately moist and the average annual temperature is approximately 65 °F, with temperatures ranging from below freezing to over 100°F. The region is in climate Zone 7 – "Great Valley and Surrounding Low Mountains," characterized by marked seasons of hot, dry summers, and moderately cold, wet winters, with most of the precipitation falling during the six months of winter (Sketchley, 1965; Hickman, 1993). Annual precipitation totals 25-30 inches, and the prevailing wind is westerly, averaging less than 10 miles per hour.

The study area is located in the foothills of the western slope of the Sierra Nevada, at an elevation ranging from 900 to 1,150 feet above sea level. The geology of the surrounding area (Amador County) is dominated by steeply dipping, faulted and folded metamorphic rocks that have been intruded by several types of igneous rocks, and overlaying the bedrock in many places are mantles of river gravel and volcanic debris (Sketchley, 1965). The general trend of ridges and rock formations is northwest to southeast, and drainage is generally to southeast. The northern portion of the county lies within the Cosumnes River basin, and the southern portion, including the study area, lies within the Mokelumne River basin. The geology in the project vicinity consists of metasedimentary rocks of the Calaveras Complex such as slate, metamorphosed sandstone, conglomerate, and some limestone and volcanic rock. The sediments that formed these rocks were deposited in an ocean basin during the







Upper Paleozoic Period and were then intensely folded, sheared, heated, and fractured by processes that created the Sierra Nevada. The Calaveras Complex is highly fractured and has exposures at the project site in stream bottoms. This fractured bedrock serves as a shallow groundwater aquifer.

3.0 METHODOLOGY

Prior to conducting the field delineation the following information sources were reviewed:

- USGS "Amador City" 7.5 minute topographic quadrangle
- Color aerial photography of the study area and vicinity
- Tentative Natural Resources Conservation Service soil survey maps and unit descriptions
- Hydric soil information obtained from the Natural Resources Conservation Service

The field delineation was conducted by AES biologists G. O. Graening, John Howe, and John Miller on November 19 and 25, 2003, and by Paul Garcia and John Miller on January 16, 2004. The *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory 1987) was used as the standard for determining if specific areas qualify as wetlands subject to the provisions of the Clean Water Act. U.S. Army Corps of Engineers' regulations (33 CFR 328) were used to determine the presence of jurisdictional "waters of the U.S." other than wetlands.

The entire study area was assessed in such a manner as to view all areas to the degree necessary to determine the presence or absence of jurisdictional features. Data collection points were chosen at representative locations and detailed information on vegetation, soils, and hydrology characteristics were taken for each data point. Plant nomenclature follows *The Jepson Manual: Higher Plants of California* (Hickman 1993). The 1988 *National List of Vascular Plant Species that Occur in Wetlands, California Region 0* (Reed 1988), was used to determine the status of observed plants as wetland indicator species. A standard Munsell[®] soil color chart was used to determine soil matrix and mottle colors.

Vernal pools were delineated with using a combination of out-of-season floristic data (presence or absence of patches of persistent plant skeletons of vernal pool endemic species) and topographic position since the site soils were generally thin and uniformly of high chroma, underlain by near-surface slate bedrock. Disturbance of the site included active grazing and historic mining activities, and remnant graded areas of an abandoned landing strip. The only areas meeting all three mandatory wetland criteria were beds of hydrophytes adjacent to a blue-line stream on the site. The floor of old stock ponds and blocked swales, and a leakage area at the base of one of the dams on the property, possessed hydrophytic vegetation and wetland hydrology, but generally lacked hydric soils. Instead

these sites had thin soils only a few inches thick that were underlain with slate bedrock, sometimes iron stained or with lightly discolored rocky clay chunks weathered from indurate slate slabs. Intermittent watercourses were assessed for indicators of two-year flood-flow such as down-cutting, microterraces, gravels, sands, and cobbles.

Data sheets which document the basis for determining if suspect features qualify as jurisdictional "waters of the U.S." were completed for representative locations and are included in the **Appendix** of this report. The boundaries of all "waters of the U.S." located in the study area were measured in the field and recorded on a 1" = 200' aerial photograph. These data were then digitized to calculate acreage and to produce the "waters of the U.S." delineation maps.

4.0 RESULTS

4.1 UPLAND HABITATS

ANNUAL GRASSLAND

The northeastern portion of the study area is this vegetated by annual grassland (Analytical Environmental Services, 2004). Plant species of these areas found during site visits include creeping bent (*Agrostis stolonifera*), silver European hairgrass (*Aira caryophyllea*), sweet vernal grass (*Anthoxanthum odoratum*), wild oat (*Avena fatua*), cultivated oat (*Avena sativa*), California brome (*Bromus carinatus*), ripgut brome (*Bromus diandrus*), soft chess (*Bromus hordeaceus*), yellow starthistle (*Centaurea solstitialis*), dogtail fescue (*Cynosurus echinatus*), filaree (*Erodium cicutarium*), California fescue (*Festuca californica*), tarweed (*Hemizonia fasciculata*), meadow barley (*Hordeum brachyantherum*), Mediterranean barley (*Hordeum marinum* ssp. *gussoneanum*), weed barley (*Hordeum murinum* ssp. *leporinum*), hedge mustard (*Sisymbrium officinale*), milk thistle (*Silybum marianum*), winter vetch (*Vicia villosa*), and Zorro fescue (*Vulpia myuros*).

CHAPARRAL

Within the southern half of the project area chaparral occurs (Analytical Environmental Services, 2004). The chaparral within the project area is a chamise chaparral. Plants identified in these areas during site visits include chamise (*Adenostoma fasciculatum*), manzanita (*Arctostaphylos manzanita*), wood fern (*Dryopteris arguta*), yerba santa (*Eriodictyon californicum*), pearly everlasting (*Anaphalis margaritacea*), sticky monkey flower (*Mimulus aurantiacus*), and interior live oak (*Quercus wislizenii*).

OAK SAVANNA

Oak savanna comprises portions of the project area (Analytical Environmental Services, 2004), and it is often interspersed with annual grassland. The oak savanna of the site is dominated by blue oak (*Quercus douglasii*). Plants identified in these areas during site visits included primarily blue oak and the same dominant annual grasses identified in the previous paragraphs (Analytical Environmental Services, 2004).

OAK WOODLAND

Oak woodland is also present in the project area, and is dominated by blue oaks but also includes scattered interior live oaks, black oaks (*Quercus kelloggii*), gray pines (*Pinus sabiniana*), and ponderosa pines (*Pinus ponderosa*). Understory vegetation included poison oak (*Toxicodendron diversilobum*), manzanita (*Arctostaphylos manzanita*), toyon (*Heteromeles arbutifolia*), dogtail fescue, and goldenback fern (*Pentagramma triangularis* ssp. *triangularis*) (Analytical Environmental Services, 2004).

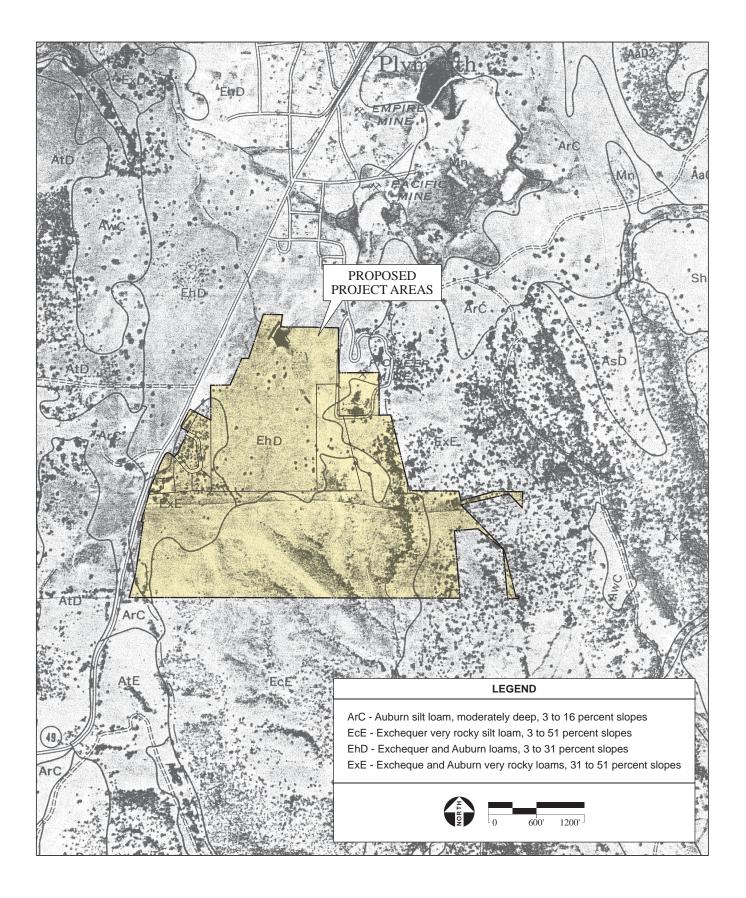
RIPARIAN WOODLAND

Riparian or moisture-loving plant habitat occurs in canyons and arroyos along rivers and streams and often forms scrub or woodland. Deciduous trees, shrubs, grasses and forbs dominate the riparian woodland of the site even though rivers and perennial streams are absent. Riparian woodlands occur in association with the ephemeral and intermittent drainages in Parcel 1. All but one of the riparian areas support a canopy dominated by interior live oaks, which intergrades with the adjoining chaparral. Dominant plant species identified in these areas during site visits included interior live oak, California buckeye (*Aesculus californicus*), toyon, California black walnut (*Juglans californica*), holly-leaf redberry (*Rhamnus ilicifolia*), and poison oak.

The deep eastern drainage on the site is steep sided with well-developed woodland equivalent to mixed oak-pine riparian woodland. Plant species identified in this area included interior live oak, black oak (*Quercus kelloggii*), California black walnut, gray pine, ponderosa pine, and red willow (*Salix laevigata*) (Analytical Environmental Services, 2004).

4.2 SOIL TYPES

The soils of the project site consist of soils of the Auburn-Exchequer association (**Figure 4**). Soils of this association are characteristically very shallow to moderately deep, rocky or gravelly soils from



metabasic rocks and metasedimentary slate and schist. Vertical outcrops of schistose rocks occupy 20 to 50 percent of the surface in some areas with abundant rock fragments visible in profile. Exchequer soils adjoin Auburn soils (Sketchley, 1965).

The Auburn series of the association consists of well-drained, shallow to moderately deep soils formed from metabasic igneous rock and metasedimentary rock. The subsoil in the Auburn series ranges in color from yellow-red, reddish brown to brown. The Exchequer series of the association consists of excessively drained, very rocky, very shallow soils that are slightly acidic. Surface soil is granular, friable and slightly acidic very rocky silt loam. The soil color varies from dark brown, brown to grayish brown with a predominantly shallow depth to bedrock, about 6 inches in most places (Sketchley, 1965).

4.3 Hydrology

Portions of the site within the watershed of Dry Creek are characterized by dissected topography, which supports ephemeral to intermittent drainages. Surface water was observed flowing on January 16, 2004, but no flows were evident late the previous year. However, evidence of flow may be deduced from the rounding of angular sheets of slate that litter the floor of each drainage on the site. An excavated, disturbed intermittent stream runs parallel to State Highway 49, which was flowing in mid-January.

Slate bedrock is exposed at or near the surface on much of the site, and the near vertical bedding planes and indurate nature of the rock impedes groundwater recharge. Localized ponding was observed on January 16, 2004 in natural and man-made depressions on the site, especially in areas having thin soil and near-surface parent material. Hydrologic control is afforded by an abandoned landing strip on the site, which acts as a dam causing localized ponding in two areas. Several excavated cattle ponds occur on the site. All were filled with water by January 16, 2004. In addition, a constructed detention basin occurs adjacent to State Highway 49, and this had about six-inches of ponded water when the site was visited in mid-January.

Since the bulk of the site is on top of the hills on the south outskirts of the town of Plymouth, most of the hydrology emanates from precipitation, and there is little, if any runoff entering the property from surrounding lands.

4.4 WATERS OF THE U.S.

The United States Fish & Wildlife Service has inventoried several wetlands in the area as part of its National Wetlands Inventory (NWI). These include palustrine emergent and unconsolidated wetlands

that were natural and/or impounded. All of the stock ponds and one of the seasonal ponds (i.e. the pond formed from the abandoned aircraft runway fill) appeared on the NWI (**Figure 5**).

The AES field survey confirmed the presence of the seasonal wetlands that were identified in the NWI, including cattle ponds, a detention basin, intermittent and ephemeral streams, vernal pools and swales; and, in addition, mapped additional potential waters of the U. S. features. These features are discussed below, appear as images (**Figure 6-1 and 6-2**), are mapped in **Figure 7**, and are documented by USACE data forms that appear in the **Appendix**.

SEASONAL WETLANDS

Seasonal wetlands are characterized by vegetation that is typically adapted to seasonal flooding and varying levels soils saturation. These areas are typically occurring either adjacent to streams or freshwater wetlands where seasonal flooding occurs, or in areas that have seasonally saturated soils either due to pooling of seasonal rains or due to shallow groundwater conditions. These features include cattle ponds, a detention basin, a modified drainage, vernal swales/pools, and other seasonal wetlands (**Figures 6-1, 6-2, and 7**).

CATTLE PONDS

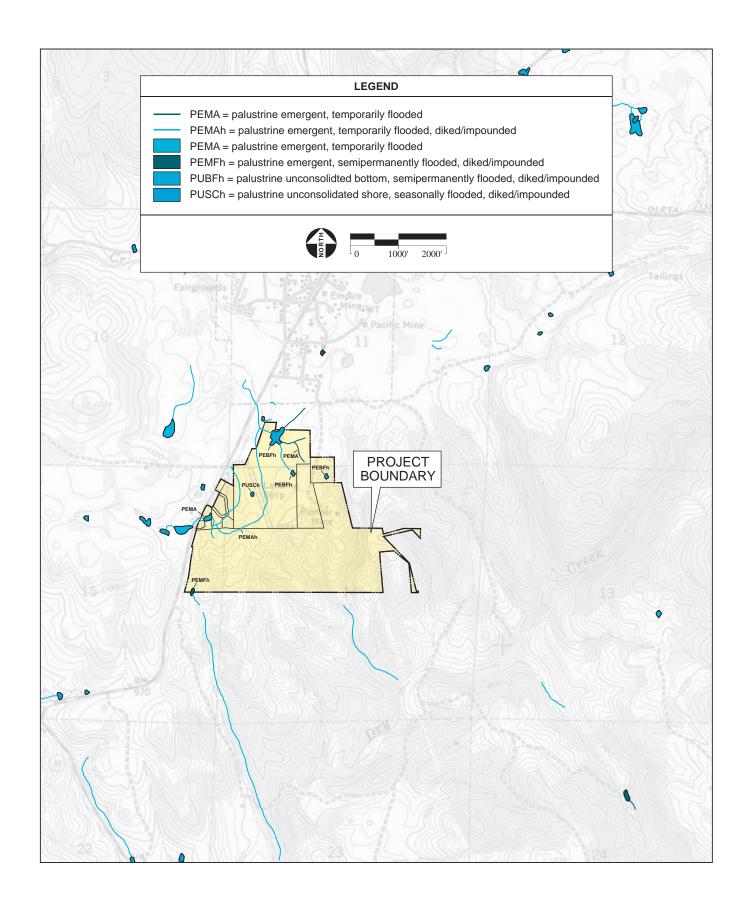
Four cattle ponds occur on the project site. A cattle pond was observed near the southwest corner of Parcel 1. This feature is fed by two swales that capture runoff from nearby Highway 49 and the surrounding landscape. The pond and its perimeter are devoid of vegetation, except for scattered willow weed (*Polygonum lapathifolium*). This feature is a result of excavation and damming to create an impoundment suitable for stock watering (**Figures 6-1, 6-2, and 7**).

Another cattle pond is located near the northern boundary of Parcel 3. The impoundment consists of open water that varies in depth through out the season and a peripheral area that is saturated long enough through the wet season to support a thick herbaceous layer dominated by spikerush (*Eleocharis macrostachya*). This feature is a result of excavation and damming of a swale for purposes of stock watering. Below the dam face a small seep exists. The seep is vegetated with spikerush and Baltic rush (*Juncus balticus*) (**Figures 6-1, 6-2, and 7**).

A third cattle pond occurs along the eastern boundary of Parcel 3. No vegetation was observed in association with this pond. The fourth cattle pond is at the edge of the central parcel.

DETENTION BASIN AND INTERMITTENT DRAINAGE

A detention basin exists along the western boundary of Parcel 7. This feature appears to collect runoff from this portion of the site and channel it into a culvert that daylights just north of the gas





Photograph 1
Intermittent stream in an excavated ditch fronting State Highway 49.



Photograph 2
Seasonal wetland formed when the abandoned aircraft runway in the center of the image, blocked a vernal swale.



Photograph 3
Large stock watering pond at the northwest corner of the project site.



Photograph 4
Stock watering pond in the northwest corner of the project site.



Photograph 5
Pond showing its position relative to the abandoned aircraft runway.



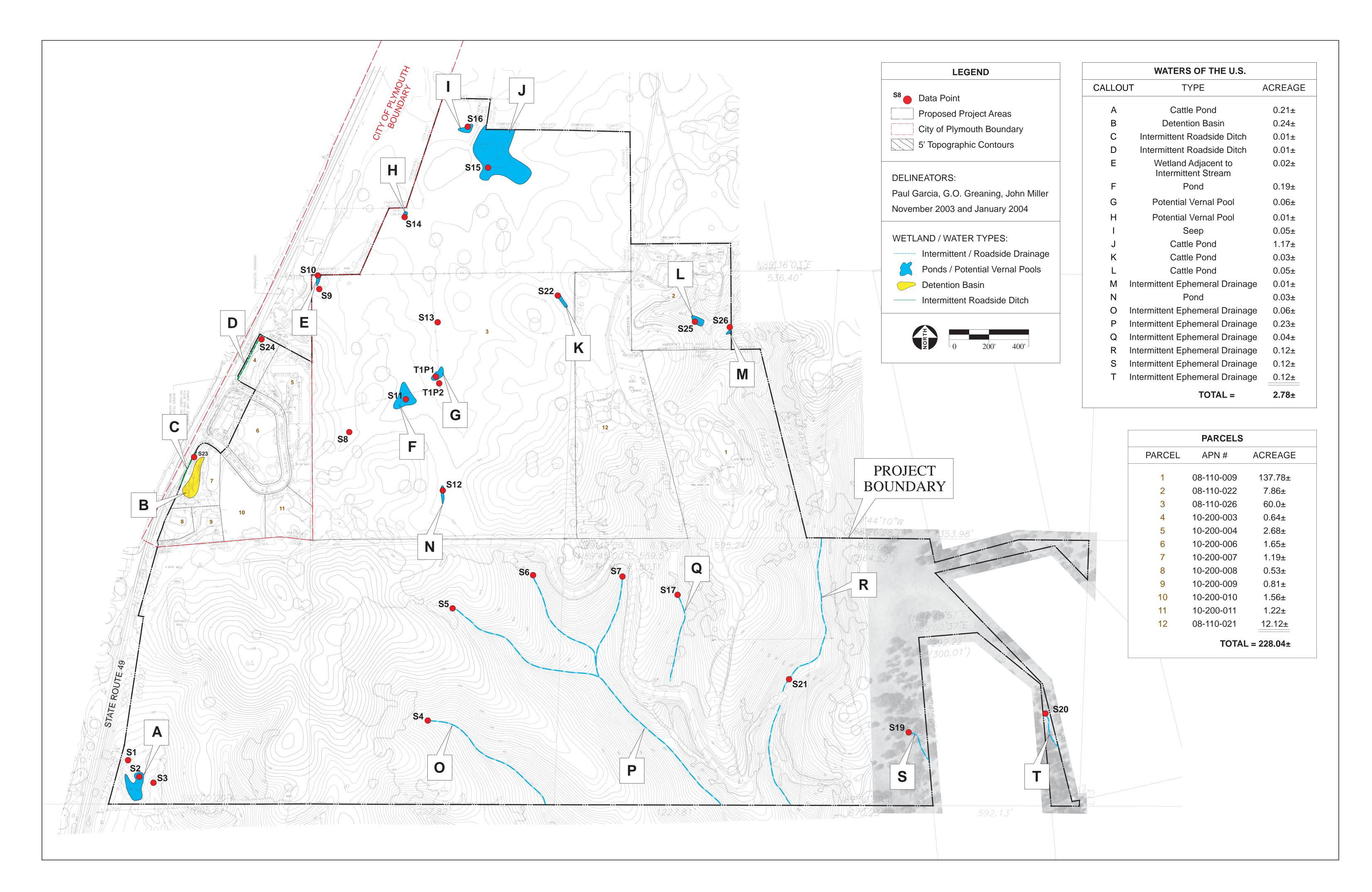
Photograph 6
Vernal pond and swale.



Photograph 7
Cattle Pond



Photograph 8Head of a tributary to Dry Creek. Water flows out of a spring where down cutting of a channel first became discernable.



station and continues as a roadside ditch. The ditch is shown as an intermittent drainage on the USGS quadrangle map. This portion of the drainage appears to be a modification of a historic drainage that once flowed through the western portion of Parcel 4 paralleling State Route 49. Dominant plants identified during site visits include broadleaf cattail (*Typha latifolia*), and Himalaya blackberry (*Rubus discolor*). Plants identified within the drainage include broadleaf cattail, curly dock (*Rumex crispus*), red willow (*Salix laevigata*), and arroyo willow (*Salix lasiolepis*).

INTERMITTENT AND EPHEMERAL DRAINAGES

The floor of ephemeral drainages is littered with partially rounded slate fragments and slabs, and vegetated with non-native grasses and forbs and often shaded by the canopies of the riparian shrubs and trees (Analytical Environmental Services, 2004). The first evidence of flow in these channels is a down-cut channel and seep point or spring at the head of the deeper canyons (**Figure 6-2**).

VERNAL POOLS

The area in the vicinity of the abandoned aircraft runway (visible on the USGS quadrangle map) in Parcel 3 has a vernal pool and seasonal pond (see next (**Figures 6-1, 6-2, and 7**). These areas were either saturated to the surface or ponded water on January 16, 2004, but were completely dry two month's earlier.

Vernal pools of the Plymouth site formed in thin subsoil, only a few inches thick; weathered from shallow, indurate slate bedrock, often in tilted or near vertical bedding planes. Evidently, the shallow slate bedrock blocks infiltration of surface water for a period of time long enough the support the growth of vernal pool indicator species and obligate wetland plants in ponded microsites. Plants identified at the time of the surveys included spikerush (*Eleocharis macrostachya*), Vasey's branching coyote thistle (*Eryngium castrense*), and pillwort (*Pilularia americana*). The spring flora of these pools has not yet been studied (**Appendix**; **Figures 6-1, 6-2, and 7**).

OTHER SEASONAL WETLANDS

Two other areas of seasonal wetlands exist within Parcel 3. One of these features is a seasonal wetland that the abandoned aircraft runway grade formed by impounding water on the uphill side of it. This feature pools water during the winter and is dominated by spikerush. The other area consists of two small wetland areas near the western boundary of Parcel 3. These features are associated with a swale that drains into the aforementioned drainage that runs immediately adjacent to this portion of the site. These features are severely disturbed by cattle. The seasonal wetland area associated with the abandoned aircraft runway is dominated by spikerush. Plant fragments identified in the wetland area near the drainage during the late fall surveys include Dallis grass (*Paspalum dilatatum*), crab grass

(*Cynodon dactylon*), loosestrife hyssop (*Lythrum hyssopifolium*), and Himalaya blackberry (*Rubus discolor*) (**Figures 6-1, 6-2 and 7**).

The "waters of the U.S." of the site occupy a total of 3.41 acres. **Table 1** below provides an acreage summary. The "Waters of the U.S." delineation map is folded in the rear pocket of the report and constitutes **Figure 7**. Completed standard USACE 1987 Manual data forms appear in the **Appendix**.

TABLE 1.
WATERS OF THE U. S. SUMMARY

Feature	Mapping Callout on Figure 7	Acreage
Cattle Ponds	A, J, K, & L	1.46
Detention Basin	В	0.24
Intermittent Road Side Ditch	C & D	0.02
Ponds	F&N	0.22
Wetland Adjacent to Intermittent Stream	E	0.02
Potential Vernal Pools	G & H	0.07
Intermittent and Ephemeral Drainages	M, O, P, Q, R, S, T	0.7
Seep	I	0.05
TO	ΓAL	2.78

5.0 SUMMARY

Analytical Environmental Services has conducted a delineation of "waters of the U.S." occurring within the 230± acre Ione Casino study area. The study area is located near Plymouth, and is adjacent to State Route 49 in Amador County, California. The study area was systematically walked by AES biologists on November 19 and 25, 2003; and on January 16, 2004. All areas were viewed to the degree necessary to determine the presence or absence of jurisdictional "waters of the U.S." Waters of the U.S. have been mapped within the study area including intermittent and ephemeral streams, cattle ponds, vernal pools and a vernal swale. These "waters of the U.S." occupy a total of 2.78 acres.

6.0 REFERENCES

- Analytical Environmental Services, 2004. Biological Resources Assessment Ione Casino Project Site. Unpublished January 2004 Report to the Bureau of Indian Affairs.
- Environmental Laboratory, 1987. *Corps of Engineers Wetlands Delineation Manual*. Technical Report Y-87-1. U.S. Army Engineer Waterways Experiment Station. Vicksburg, Mississippi.
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- Sketchley, H. R., 1965. Soil Survey Amador Area, California. USDA, Soil Conservation Service (Natural Resources Conservation Service) and the California Agricultural Experiment Station.
- U.S. Geological Survey. 1962. "Amador City, California" 7.5-minute topographic quadrangle. U.S. Geological Survey, Denver, Colorado.

APPENDIX

DELINEATION DATA SHEETS

Project/Site I ane Casino Project	Date 11/19/03
Applicant / Owner	County Amader
Investigator B. C. Graining, John Howe, John Miller	State CA
Do Normal Circumstances exist on the site?	NO Community ID
Is the site significantly disturbed (Atypical Situation)?	NO Transect ID Swale S . 1 Hwy . 49
Is the area a potential Problem Area? (If needed, explain on reverse) YES	(NO) Plot ID 51

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 Quercus douglasii	- T	NOL	9		
2 Toxico dendron diversilos	luin 5	NOL	10		
3			11		
4			12		
5			13		
6			14		
7			15		
8			16		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 0/2 = 0%

Remarks

Criteria not met

HYDROLOGY

Recorded Data (Describe in Remarks) Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available			WETLAND HYDROLOGY INDICATORS Primary Indicators: Inundated Saturated in Upper 12 Inches Water Marks Drift Lines Sediment Deposits
FIELD OBSERV	ATIONS		☐ Drainage Patterns in Wetlands
Depth of Surface Water	Ø	(171)	Secondary Indicators (2 or more Required): Oxidized Root Channels in Upper 12 Inches
Depth to Free Water in Pit	N/A	(in)	☐ Water-Stained Leaves ☐ Local Soil Survey Data
Depth to Saturated Soil	N/A	(in)	FAC-Neutral Test Other (Explain in Remarks)

No indicators

Map Unit Name (S	eries and Phase):	Exchegair & Au	busic very locky	Drainage Class: 470	essively drained		
axonomy (Subgro		<i>f</i> .		Confirm Mapped Type?			
		PROFIL	E DESCRIPTION				
Depth (inches)	Horizon	Matrix Color (Munself Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretion Structure, etc.		
W							
-					\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
							
					14		
_		HYDRIC S	SOIL INDICATORS:				
Histosol			☐ Concreti				
Histic Epip				ganic Content in Surface	,		
Sulfidic Od			☐ Organic Streaking in Sandy Soils				
_ `	sture Regime		Listed on Local Hydric Soils List				
☐ Reducing (Listed on National Hydric Soils List				
	Low-Chroma Colo	ors	LJ Other (E	Explain in Remarks)			
Remarks:		A /					
No	pit excavate	d here.					
	,						
ETLAND DET	ERMINATION						
lydrophytic Veget	ation Present?	YES (NO)	CONTROL CONTRO		THE STATE OF THE S		
Vetland Hydrology	y Present?	YES (NO)	Is this Sampling P	oint Within a Wetland?	YES (NO)		
Hydric Soils Prese	nt?	YES NO	1		_		
Remarks		·	a				
Lin	in Sugar Org	; no evidence	e of flow.				
140	I NO TO)					

Project/Site I one Cas	Date 11/	19/03						
Applicant / Owner				County A	mudor			
Investigator G.O. Graening,	John Ho	ive , John	Miller	State	CA			
Do Normal Circumstances exist on	the site?	,	YES NO	Community ID	2001117300			
Is the site significantly disturbed (At	ypicai Situati	on)?	YES NO	Transect ID 54	ock pond 3	5 of Huy49		
Is the area a potential Problem Area	a? (If needed, e	xplain on rever	se) YES NÓ		2			
Accessed to the second								
VEGETATION								
Dominant Plant Species	Stratum	Indicator	200	Plant Species	Stratum	Indicator		
1 Polygonum lapathitolium	H	OBL	9					
2			10					
3			11					
4			12					
5			13					
6			14					
7			15					
8			16					
Percent of Dominant Species that a	re OBL, FAC	W, or FAC (excluding FAC-)	1/1 =11	00%			
Remarks			,	17 (, ,)	, , , ,			
Criteria met.				-				
HYDROLOGY								
Recorded Data (Describe i	n Remarks)		WETL	AND HYDROLOG	Y INDICATOR	28		
☐ Stream, Lake, or Tide	Gauge		☐ Ir	☐ Inundated				
☐ Aerial Photographs				Saturated in Upper 12 Inches				
LJ Other			· ~	Vater Marks				
No Recorded Data Availab	ole			Orift Lines Sediment Deposits				
FIELD OBSERV	ATIONS		ا ا	orainage Patterns i	in Wellands			
Depth of Surface Water		Ø	'')	dicators (2 or more		r 12 Inches		
Depth to Free Water in Pit	7	>18 (Valer-Stained Lea .ocal Soil Survey D				
Depth to Saturated Soil	>	>18 (FAC-Neutral Test Other (Explain in R	emarks)			

Criteria met. Site is a maintained stock watering pond.

SOILS				10am , 51 + 65	1 percent sloped of		
Map Unit Name (Se	eries and Phase):	Exchequer & A	uburn Very rock	y Drainage Class: स्त्रा	estively drained		
Taxonomy (Subgrou				Confirm Mapped Type			
		PROFI	LE DESCRIPTION				
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions Structure, etc.		
0-12	B	10YR 4/2	7.5 YR 5/6	86% dull	clay		
12-18	C	25Y 7/6			instead Li 7.57R 5		
					Clay		
				,			
		HYDRIC	SOIL INDICATORS:				
Histosol			Concret	lions			
☐ Histic Epipe				ganic Content in Surfac			
Sulfidic Odd			_	Streaking in Sandy So			
Aquic Moist	ure Regime		Listed o	л Local Hydric Soils Lis	it .		
Reducing C	onditions		Listed on National Hydric Soils List				
Gleyed or L	ow-Chroma Colo	rs	Other (Explain in Remarks)				
water of	the stock in met.	et of the Shife	u and has been	subjected to we	athiring by the		
VETLAND DETE	RMINATION						
Hydrophytic Vegela	· · · · · · · · · · · · · · · · · · ·	(YES) NO			De la companya de la		
Welland Hydrology		(YES) NO	Is this Sampling F	Point Within a Wetland?	YES NO		
Hydric Soils Presen	-	MÉS) NO					
Remarks							
			stock pund	with wetland	9		
Ch	aracterist	ics .					
50							

ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Project/Site Iune Cas	Date	11/	19/03				
Applicant / Owner				County	Ama	ador-	
Investigator 6,0 Gimening;	John Hob	12 John	Miller	State	CA		
Do Normal Circumstances exist on	the site?	,	(YES) NO	Community	*		
Is the site significantly disturbed (At	ypıcal Situati	on)?	YES (NO)	Transect II	> Siva	de SE of	Hwy 49
Is the area a potential Problem Area	a? (If needed, e	xplain on revers	YES (NO)	Plot ID	<	Ŝ3	
VECETATION							
VEGETATION Dominant Plant Species	Stratum	Indicator	Dominant P	lant Species	-	Stratum	Indicator
1 Quercus douglasii	T	NOL	9			- Hattager	N/Gisagro!
	H	FAC	10			141. 4	
CTV VIDITO	H	NOL.	11				
3 Avena Tatua	11	, 100C.	12				-
5			13	·*···			
6			14				
7			15				
8			16		}		
Percent of Dominant Species that a	re OBL, FAC	W, or FAC (e	excluding FAC-)	1/3	= 3	3%	
Remarks						•	
Criteria not met	~						
HYDROLOGY							
			WETL	AND HYDRO	OLOGY	'INDICATOR	RS
Recorded Data (Describe i	n Remarks)		Primary Indica	ators:			
Stream, Lake, or Tide	Gauge		ir ir	nundated			
☐ Aerial Photographs☐ Other				aturated in t	Jpper 1	2 Inches	
Other				Vater Marks			
No Recorded Data Availat	ole			rift Lines Sediment Der	posits		
FIELD OBSERV	'ATIONS			rainage Pat	•	Wetlands	
		\sim	Secondary In	displace (2 o	r more	Paguirod\:	
Depth of Surface Water		Ø (II				nels in Uppe	r 12 Inches
Depth to Free Water in Pit	1	1/A (i		Vater-Staine .ocal Soil Su	d Leav	es	, , _ , , , , , , , ,
Depth to Saturated Soil	N	/ <u>^</u>		AC-Neutral Other (Explai		marks)	

No indicators.

	eries and Phase)	Exchequer & Au	burn very facky	Drainage Class: 色成	essively drained
axonomy (Subgro		,,,,,		Confirm Mapped Type?	1
VVVV		PROFIL	LE DESCRIPTION		
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretion Structure, etc.
		HYDRIC	SOIL INDICATORS:		
Reducing (Gleyed or lemarks:	sture Regime Conditions Low-Chroma Cold	ors zu.dil here.	Listed o	Streaking in Sandy Soll n Local Hydric Solls List n National Hydric Solls L Explain in Remarks)	
J					
ETLAND DETI					
ETLAND DETI	ation Present?	YES NO	In this Compliant	Daint Within a Walland?	VES 450
ETLAND DETI lydrophytic Veget Vetland Hydrology	ation Present? / Present?	YES NO	Is this Sampling P	Point Within a Wetland?	YES (ÑO)
ETLAND DETI Hydrophytic Veget Vetland Hydrology Hydric Soils Prese Remarks	ation Present? / Present?		Is this Sampling P	Point Within a Wetland?	YES (ÑO)

Date	11/19	103	
County	County Almador		
The State	— Finaai CA	0 r	
	Community ID		
		D. C. T.	1 10 100
S (NO) Plot ID	CLID NW 1	Dryest - 11	- ib W bru
3 (40) 1-10(1)			
ominant Plant Spec	cies	Stratum	Indicator
		2-8	
FAC-) 0/5	= 0 %	,	
	DROLOGY IN	NDICATOR	
WETLAND HY			RS
WETLAND HYI			RS
			RS
nary Indicators; Inundated Saturated	in Upper 12 !	Inches	
nary Indicators; Inundated Saturated Water Ma	in Upper 12 I rks DA S	Inches late fr	
lary Indicators: Inundated Saturated Water Mai	in Upper 12 I rks DA S	Inches late flu	
lary Indicators: Inundated Saturated Water Mai Drift Lines Sediment	in Upper 12 to rks DA S	late th	
lary Indicators: Inundated Saturated Water Mai Drift Lines Sediment	in Upper 12 to rks DA S	late th	
Inundated Inundated Saturated Water Mal Drift Lines Sediment Drainage	in Upper 12 to the South	late the	ng ment L
Indicators: Inundated Saturated Water Mai Drift Lines Sediment Drainage I Oxidized F	in Upper 12 to the South	late the	ng ment L
	Saturated Water Ma Drift Lines Sediment Drainage ndary Indicators (Saturated in Upper 12 Water Marks DA S Drift Lines Sediment Deposits Drainage Patterns in Water Marks Date Patterns in Water Mary Indicators (2 or more Ref	Inundated Saturated in Upper 12 Inches Water Marks DA S/a-C f-a Drift Lines Sediment Deposits Drainage Patterns in Wetlands Indicators (2 or more Required): Oxidized Root Channels in Upper

Weak indicators of intermittent flow at upper end of draininge.

Downcutting apparent.

OILS				rm, 31 to 51 pt	runt stopes.		
Map Unit Name (S	Series and Phase):	Exchequer ve	ry pocky silt	Drainage Class: (%)	cessively drained		
Taxonomy (Subgr		(-	-	Confirm Mapped Type?			
		PROFIL	E DESCRIPTION	~~~			
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions Structure, etc.		
			3300				
					- N		
		HYDRIC	SOIL INDICATORS:				
☐ Histosol			L Concret	ions			
Histic Epip	pedon		☐ High Or	ganic Content in Surface	e Layer in Sandy Solls		
Sulfidic Oc	dor		☐ Organic	Streaking in Sandy Soil	s		
Aquic Mois	sture Regime		Listed o	n Local Hydric Soils List	1		
☐ Reducing	Conditions		Listed on National Hydric Soils List				
☐ Gleyed or	Low-Chroma Color	S	Otner (Explain in Remarks)				
No pi	t was excap	eadid here.					
ETLAND DET	ERMINATION		,				
Hydrophytic Veget	ation Present?	YES (NO)	_				
Welland Hydrolog		YES NO	Is this Sampling F	Point Within a Wetland?	YES (NO)		
Hydric Soils Prese Remarks	ent/	YES NO		propriessor and the			
	He is at in an epl	or hear the nemeral char	tupper end onel. Wea	of an intermi	illent of flow.		
v	,						

DATA FORM

ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site 7 AME COS	, 0	. 1		Data 11	110 1.00	2000
- J-16-16-16-16-16-16-16-16-16-16-16-16-16-	Date 11/19/03					
Applicant / Owner	County Amailer					
Investigator 6.0. Gracking,		A				
Do Normal Circumstances exist on	Community ID					
Is the site significantly disturbed (A!	YES (NO)	Transect ID A	JW Dry Cr.	Trib-WAW		
Is the area a potential Problem Area	a? (If needed, ε	explain on revers) YES (NO)	Plot ID	S5	
/EGETATION			·	SOUTH THE STATE OF		
Dominant Plant Species	Stratum	Indicator	Dominant Plant Species Stratum			Indicator
1 Quercus Wisligenii	T	NOL	9			
2 Toxicoplendren diversilobum	5	NOL	10			
3 Cynesurus echinatus	H	NOL	11			
4		Lauren er E.Z.	12			
5			13	23.00.00		
6		*	14			
7			15			
8			16			
Percent of Dominant Species that a	re OBL, FAC	CW, or FAC (6	excluding FAC-)	0/3 = 0	2%	
HYDROLOGY		-	The side of			War and the second seco
I I DINOLOGI						
Recorded Data (Describe in Stream, Lake, or Tide in Aerial Photographs Other			Primary Indic	nundaled Salurated in Uppe Waler Marks		RS
Recorded Data (Describe in Stream, Lake, or Tide in Aerial Photographs	Gauge		Primary Indic	ators. nundated Saturated in Uppe	er 12 Inches	RS
Recorded Data (Describe in Stream, Lake, or Tide in Aerial Photographs Other	Gauge		Primary Indic	ators. nundated Saturated in Uppe Vater Marks Orift Lines	er 12 Inches Is	RS
Recorded Data (Describe in Stream, Lake, or Tide in Aerial Photographs Other No Recorded Data Availab	Gauge	Ø (ir	Primary Indic	ators. nundated Saturated in Uppe Water Marks Drift Lines Sediment Deposi	er 12 Inches Is s in Wetlands ore Required);	
Recorded Data (Describe in Stream, Lake, or Tide in Aerial Photographs Other No Recorded Data Availab	Gauge	Ø (in	Primary Indic	nundated Saturated in Uppe Water Marks Drift Lines Sediment Deposi Drainage Pattern	er 12 Inches Is s in Wetlands ore Required): nannels in Uppe eaves	

Beginnings of channel incision; sorting of times.

Map Unit Name (Se	eries and Phase):	Exchequer very	rocky sill lunn.,	Drainage Class: Px	essively drained
Taxonomy (Subgro	oup)	(-	Field Observations	Confirm Mapped Type?	YES NO
		PROFIL	E DESCRIPTION		
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
	-				
		100000			
		HYDRIC	SOIL INDICATORS:		
Reducing 0	or iture Regime Conditions		Organic Listed or	ganic Content in Surface Streaking in Sandy Soil n Local Hydric Soils List n National Hydric Soits L	S
☐ Gleyed or l	_ow-Chroma Colo	ors	☐ Other (E	xplain in Remarks)	
No p	it was exci	nuoded here.			
WETLAND DET	ERMINATION		·		
Hydrophytic Vegeta	ation Present?	YES (NO)			
Wetland Hydrology		YES NO	Is this Sampling P	oint Within a Welland?	YES (NO)
Hydric Soils Preser Remarks	nt?	YES NO			
ę.	te is at t	^ ' '	of a drain	nge with inter	mittent

Project/Sile Tone Casino	Date	11//	9/03				
Applicant / Owner					Ama	dis	
Investigator G.O. Grazning, John Howe, John Miller					CA		
Do Normal Circumstances exist on the site? (YES) NO					y ID		
Is the site significantly disturbed (Atypical Situation)? YES (NO)					DNW	DER CA.T	rib. NWb
s the area a potential Problem Area	se) YES NO	Plot ID	5	6			
				-			, us latin
	GETATION					Otro to or	In Fig. 1
	ant Plant Species Stratum Indicator Dominant I			lant Species	5	Stratum	Indicator
Quercus Wislizenii		NOL	9				
Toxicodendron diversilibum	S	NOL	10				
3 Cyhosatus echinostus	-	NOL	11				
4			12				
			13				
3			14				
7]	15				
		1			~		
Percent of Dominant Species that a		GW, or FAC (16 excluding FAC-)	0/3	= 0	76	
Percent of Dominant Species that a Remarks		GW, or FAC (0/3	= 0	%	
Percent of Dominant Species that a Remarks Critical hod		SW, or FAC (0/3	= 0	%	
Percent of Dominant Species that a Remarks Criteria hod YDROLOGY	met.	SW, or FAC (excluding FAC-)	O/3			RS
Percent of Dominant Species that a Remarks Chilchia hol YDROLOGY Recorded Data (Describe in	met.	CW, or FAC (excluding FAC-) WETLA Primary Indica	AND HYDRO			28
Percent of Dominant Species that a Remarks Chilchia hol YDROLOGY Recorded Data (Describe in Stream, Lake, or Tide)	met.	SW, or FAC (wett.	AND HYDRO	DLOGY	INDICATOR	RS
Percent of Dominant Species that a Remarks Chilchia hold YDROLOGY	met.	SW, or FAC (WETLA Primary Indica In	AND HYDRO ators: undated aturated in L	DLOGY	INDICATOR	२८
Percent of Dominant Species that a Remarks Chilchia hod YDROLOGY Recorded Data (Describe in Stream, Lake, or Tide in Aerial Photographs	met.	SW, or FAC (WETLA Primary Indica In S.	AND HYDRO ators: undated aturated in U	DLOGY	INDICATOR	२८
Percent of Dominant Species that a Remarks Chilchia hod YDROLOGY Recorded Data (Describe in Stream, Lake, or Tide in Aerial Photographs	met. n Remarks) Gauge	SW, or FAC (WETL Primary Indica In S WETL	AND HYDRO ators: nundated aturated in to ater Marks rift Lines	OLOGY Jpper 1	INDICATOR	₹\$
Percent of Dominant Species that a Remarks Critica hod IYDROLOGY Recorded Data (Describe in Stream, Lake, or Tide of Aerial Photographs Other	met. n Remarks) Gauge	SW, or FAC (WETLA Primary Indica In S S	AND HYDRO ators: undated aturated in U	OLOGY Jpper 1 posits	INDICATOR 2 Inches	RS
Percent of Dominant Species that a Remarks Chilchia hod YDROLOGY Recorded Data (Describe in Stream, Lake, or Tide of Aerial Photographs Other No Recorded Data Availab FIELD OBSERV	met. n Remarks) Gauge	×	WETLA Primary Indica In Social Secondary In So	AND HYDRO ators: nundated aturated in L /ater Marks rift Lines ediment Der	OLOGY Jpper 1 posits terns in	INDICATOR 2 Inches Wetlands	35
Percent of Dominant Species that a Remarks Chilchia hod YDROLOGY Recorded Data (Describe in Stream, Lake, or Tide of Aerial Photographs Other No Recorded Data Availab FIELD OBSERV	met. n Remarks) Gauge	×	WETLA Primary Indica In S D S Secondary Inc	AND HYDRO ators: nundated aturated in L /ater Marks rift Lines ediment Der	OLOGY Upper 1 posits terns in	INDICATOR Inches Wetlands Required):	
Percent of Dominant Species that a Remarks Chilchia hod YDROLOGY Recorded Data (Describe in Stream, Lake, or Tide of Aerial Photographs Other No Recorded Data Availab FIELD OBSERV Depth of Surface Water	met. n Remarks) Gauge ble ATIONS	Ø (I	WETL Primary Indica In S D S Secondary Inc	AND HYDRO ators: aturated in U /ater Marks riff Lines ediment Deprainage Patt	OLOGY Upper 1 posits terns in or more of Chann	INDICATOR 2 Inches Wetlands Required): nels in Uppe	
IYDROLOGY Recorded Data (Describe in Stream, Lake, or Tide of Aerial Photographs Other No Recorded Data Availab	met. n Remarks) Gauge ble ATIONS	Ø (1	WETLA Primary Indica In Secondary Inc O N Secondary Inc	AND HYDRO ators: aundated aturated in U /ater Marks rift Lines ediment Deprainage Patt dicators (2 or	DLOGY Deposits terns in more of Chanrid Leave	INDICATOR 2 Inches Wetlands Required): nels in Uppeles	
Percent of Dominant Species that a Remarks Chilchia hod IYDROLOGY Recorded Data (Describe in Stream, Lake, or Tide of Aerial Photographs Other No Recorded Data Availab FIELD OBSERV Depth of Surface Water	met. n Remarks) Gauge ble ATIONS	Ø (1)	WETL Primary Indica In S D Secondary Inc V In D S D S D D D L D D D D D D D D D D D D	AND HYDRO ators: alurated in L /ater Marks riff Lines ediment Der rainage Patt dicators (2 or exidized Roo /ater-Stainer	DLOGY Deposits terns in or more of Chanre d Leave rvey Da	INDICATOR 2 Inches Wetlands Required): nels in Uppeles	

Incised Channel 3 feet deep; sorting of fine I

SOILS	***			314, 51 percont	-slopes, 56
Map Unit Name (S	Series and Phase):	Exchiquer very	rocky sill lun	Drainage Class: (70	essively drained
Taxonomy (Subgr	oup)		Field Observations	Confirm Mapped Type?	YES NO
		PROFIL	E DESCRIPTION		,
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
	1				
☐ Histosol		HYDRIC	SOIL INDICATORS:		
Reducing Gleyed or	dor sture Regime Conditions Low-Chroma Colo		Listed o	Streaking in Sandy Soil in Local Hydric Soils List in National Hydric Soils I Explain in Remarks)	
WETLAND DET	ERMINATION				12.00
Hydrophylic Vege	lation Present?	YES (NO)			
Wetland Hydrolog	y Present?	(YES) NO	Is this Sampling F	Point Within a Wetland?	YES (NO)
Hydric Soils Prese	ent?	YES NO			
	Site is at	¥ *	and of a o	Arainage with	intermittent

Project/Site Ione Casino Project							
Applicant / Owner					County Amader		
Investigator G.O. Graening, John Howe, John Miller							
Do Normal Circumstances exist on the site? (YES) NO							
Is the site significantly disturbed (Atypical Situation)? YES (NO)							
T							
			Plant Species	Stratum	Indicator		
		9					
1		10					
<u> </u>	NOL	11	RC 10 1907-2				
		12					
		13					
		14					
		15					
		16			*		
are OBL FAC	W or FAC (excluding FAC-)	0/3 = 0	7,			

in Remarks)				GY INDICATOR			
	Recorded Data (Describe in Remarks)				२ऽ		
☐ Stream, Lake, or Tide Gauge ☐ Aerial Photographs					२ऽ		
			nundated		RS		
			nundated Saturated in Uppe	er 12 Inches	२९		
			nundaled Saturaled in Uppe Water Marks	er 12 Inches	२९		
able			nundaled Saturaled in Uppe Water Marks Driff Lines		२ड		
ible VATIONS			nundaled Saturaled in Uppe Water Marks	s	२ड		
vations			nundaled Saturaled in Uppe Waler Marks Driff Lines Sediment Deposit Drainage Patterns	s s in Wetlands	35		
	Ø (ji	Secondary In	nundaled Saturated in Uppe Water Marks Driff Lines Sediment Deposit	s in Wetlands are Required):			
VATIONS	Ø (ii	Secondary In	nundated Saturated in Uppe Water Marks Driff Lines Sediment Deposit Drainage Patterns idicators (2 or mo Oxidized Root Ch Water-Stained Le	s in Wetlands are Required): annels in Uppe aves			
VATIONS		Secondary In	nundated Saturated in Uppe Water Marks Driff Lines Sediment Deposit Drainage Patterns Idicators (2 or mo	s in Wetlands are Required): annels in Uppe aves Data			
	the site? typical Situation of the site? typical Situation of the site of the site? Stratum T S H are OBL, FAC	Stratum Indicator T NOL- S NOL- H NOL- Are OBL, FACW, or FAC (6)	Tohn Howe, John Miller Ithe site? Itypical Situation)? Parage (If needed, explain on reverse) Stratum Indicator Dominant F T NOL 9 S NOL 10 H NOL 11 12 13 14 15 16 Pare OBL, FACW, or FAC (excluding FAC-) MET	County A, John Howe, John Miller State C, the site? (YES) NO Community ID typical Situation)? (If needed, explain on reverse) Stratum Indicator Dominant Plant Species NOL 9 SNOL 10 H NOL 11 12 13 14 15 16 are OBL, FACW, or FAC (excluding FAC-) Met - WETLAND HYDROLO WETLAND HYDROLO	County Amader John Howe, John Miller State CA The site? YES NO Community ID typical Situation)? YES NO Transect ID NW Diry Cy. a? (If needed, explain on reverse) YES NO Plot ID 57 Stratum Indicator Dominant Plant Species Stratum T NOL 9 S NOL 10 H NOL 11 12 13 14 15 16 are OBL, FACW, or FAC (excluding FAC-) 0/3 = 0%		

Beginnings of channel formation; sorting of fines -

Man Unit Nama /S/	arion and Phase)	Eval		Drainaga Classi And	
		Exchequer very			
Taxonomy (Subgro	up) 		Field Observations	Confirm Mapped Type?	? YES'NO
		PROFIL	LE DESCRIPTION		
Depth (inches)	Harizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
				<u> </u>	
					47-47
	~				-
	~~~~				
		~			
			}		
		HYDRIC	SOIL INDICATORS.		
☐ Histosol			☐ Concreti	ons	
☐ Histic Epipe	edon		☐ High Or	ganic Content in Surfaci	e Layer in Sandy Soils
Sulfidic Od	or		Organic	Streaking in Sandy Soil	ls
Aguic Mois	ture Regime			n Local Hydric Soils List	1
Reducing 0	_			n National Hydric Soils t	
	ow-Chroma Cold	ors		(xplain in Remarks)	
Remarks.					
		<i>a j</i>			
1/6/4	of was ex	cavated here.			
/ /	- 1	(In the state of t			
					0
		No. of Particular States and States	The second secon		
WETLAND DETE	RMINATION				
Hydrophytic Vegeta	ation Present?	YES (NO)			
Wetland Hydrology	Present?	(YÉS) NO	Is this Sampling P	oint Within a Wetland?	YES (NO)
Hydric Soils Preser		YES NO			
Remarks					
					Ĭ
51	te is at	the head o	f an intermi	Hent Channel	in the
Zone	of ephemo	ral flow.			
	J				

Project/Site Ione Casin	Phas	o, j-		Date 11	19/03	
Applicant / Owner	0 112	7 - 1		County A	nador	
Investigator	× 1817			State C		
Do Normal Circumstances exist on	the site?		(YES) NO	Community ID	· · · · · · · · · · · · · · · · · · ·	
Is the site significantly disturbed (Al	pical Situati	on)?	YES (NO)	Transect ID 5	wale behin	& made
Is the area a potential Problem Area	1? (M needed, e	explain on rev	rse) YES NO	Plot ID	58	00 17:010 1
**************************************						
/EGETATION		_				
Dominant Plant Species	Stratum	Indicator	Dominant F	Plant Species	Stratum	Indicator
1 Hemizonia tasciculata	H	NOL	9			***
2 Eremocarpul Sefigerul	H	NOL	10			
3			11			
4			12			
5			13			
6			14			estat restriction
7			15			
8			16			
Percent of Dominant Species that a	re OBL, FAC	CW, or FAC	(excluding FAC-)	0/2 = 0/	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	
Criteria not p	net.					
HYDROLOGY						
	5		WETL	AND HYDROLOG	Y INDICATOR	RS
Recorded Data (Describe in			Primary Indic	ators;		
Stream, Lake, or Tide (	Gauge			nundated		
				Saturated in Upper Vater Marks	12 Inches	
				Drift Lines		
No Recorded Data Availab	le		S	Sediment Deposits		
FIELD OBSERV	ATIONS			Orainage Patterns	n Wellands	
Depth of Surface Water		Ø	(113)	idicators (2 or mor Oxidized Root Cha	•	r 12 Inches
Depth to Free Water in Pit	,	>18	(in)	Valer-Stained Lea Local Soil Survey [	ves	12 11101163
Depth to Saturated Soil		>18		FAC-Neutral Test Other (Explain in R		

Criteria not met.

	oup)	D	Field Observations	Confirm Mapped Type?	,
		PROFIL	E DESCRIPTION		
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mattle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc
0-14	A	2.5 Y 4/3	10 YR 9/4	20h dull	silt lum
14-16	A	2.5 Y 4/3	N/A	Mans.	Elay loom
	11.				
		}			
	1 (Apr. 11)	HYDRIC	SOIL INDICATORS		
Remarks:	Low-Chroma Cold	<u></u>		n National Hydric Soils f xplain in Remarks)	
The second secon		VEC AID			
Hydrophytic Veget	ation Present?	YES (NO)		oint Within a Wetland?	VES (NO)
Hydrophytic Veget Wetland Hydrology	ation Present?  / Present?	YES NO		cint Within a Wetland?	YES NO
VETLAND DET! Hydrophytic Veget Wetland Hydrology Hydric Soils Prese Remarks	ation Present?  / Present?			oint Within a Wetland?	YES NO

Di Wait T Com	, D.	/ 1			Data Li	110/0-	2
	ino Pro	Ject -			Date /	117/03	5
Applicant / Owner	<del></del>	1 ~	1			nador	
Investigator 6.0. Graening		lowe, Jo	hh		State	CA	
Do Normal Circumstances exist on				MES NO	Community ID		
Is the site significantly disturbed (At	ypical Situali	on)?		YES (NO)	Transect ID Siv	ale behind in	whele of ditch
Is the area a potential Problem Area	a? (If needed, e	xplain on reverse	e)	YES NO	Plot ID	S9	
/EGETATION	21.1	1 12 1		D 15	1	1 01 1	
Dominant Plant Species	Stratum	Indicator	-	Dominant P.	lant Species	Stratum	Indicator
1 Paspalum dilatatum	H	FAC	9	~~~			
2 Lythrum hyssogitalium	H	FACW	10				
3 Cynodon dartylon	H	FAC	11				
4		1	12				
5			13				
6			14				
7			15	•			
8	1,000,000,000		16				
Percent of Dominant Species that a	re OBL FAC	L CW. or FAC (e	exclu	ding FAC-)	3/3 = 100%	′	
Criteria met	•						
HYDROLOGY							
				WETL	AND HYDROLOG	Y INDICATO	RS
Recorded Data (Describe)	,			Primary Indica	ators:		
☐ Stream, Lake, or Tide	Gauge		}	☐ lr	nundated		
☐ Aerial Photographs				☐ s	aturated in Upper	12 Inches	
☐ Other			}	<u> </u>	Vater Marks		
				<u> </u>	rift Lines		1
No Recorded Data Availal	ole				ediment Deposits		
FIELD OBSERV	ATIONS			, <b>X</b> .D	rainage Patterns i	in Wetlands	
Depth of Surface Water		Ø (II	1)	/	dicators (2 or more		or 12 Inches
Depth to Free Water in Pit		>8 (in	n)	v	Dxidized Root Cha Vater-Stained Lea Local Soil Survey D	ves	n JZ menes
Depth to Saturated Soil		> <i>g</i> (ii	n) (		AC-Neutral Test Other (Explain in R	emarks)	

Slate bedrock near surface apparently causes seasonal ponding. Criteria Mer.

Map Unit Name (Se	ries and Phase):	Exchequer and A	when leam, 340	Drainage Class. ἀχ(	exilvely drained
Taxonomy (Subgro			Field Observations	Confirm Mapped Type	,
		PROFIL	E DESCRIPTION	11 800 (111)	
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-2	A	5Y 4/1	N/A	hone	clay loom
28	B	2.5 Y 4/2	10 YR 4/4	boile, dull	Clay hon
				in The State of th	
	Art Section	HYDRIC	SOIL INDICATORS:		J
☐ Histosof			☐ Concreti	ons	
☐ Histic Epipe	don		☐ High Org	ganic Content in Surfac	e Layer in Sandy Soils
☐ Sulfidic Odd	or		Organic	Streaking in Sandy Soil	s
	ure Regime		Listed or	n Local Hydric Soils List	:
Reducing C				n National Hydric Soils I	List
Gleyed or L Remarks:	ow-Chroma Colo	rs	U Olher (E	xplain in Remarks)	
13edro Críf	ck at 8" cria met.	Meg 1h -			
WETLAND DETE	RMINATION				
Hydrophytic Vegeta	tion Present?	(YES) NO			
Wetland Hydrology	Present?	(YES) NO	Is this Sampling P	oint Within a Welland?	(YES) NO
Hydric Soils Preser	t?	(YES) NO			
Remarks	Criter	a mit.			

#### ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Project/Site Ioni Cas	ino Pro	iect		Date	1/19/03	
Applicant / Owner				County A	mador	
Investigator 6.0. Gharning,	John Hol	W. , John	Miller	State C/		
Do Normal Circumstances exist on		,	(YES) NO	Community ID		
Is the site significantly disturbed (At	ypicał Situati	on)?	YES (10)	Transect ID D	Ach behind	Store
Is the area a potential Problem Area	? (If needed, e	explain on reverse	YES NO	Plot ID	510	
/FOFTATION						
VEGETATION  Dominant Plant Species	Stratum	Indicator	Dominant P	Plant Species	Stratum	Indicator
1 Rubus discolor	5	FACWX	9			
2 Paspalum dilutatum	$\widetilde{\mathcal{H}}$	FAC	10			
3 Cynodon dartylon	Н	FAC	11			
4			12			
5			13			
6			14			
7			15			
8			16			
Percent of Dominant Species that a	re OBL, FAC	CW, or FAC (e	xcluding FAC-)	3/3 =	100%	
HYDROLOGY					***************************************	
Recorded Data (Describe in	Remarks)		1	AND HYDROLOG	Y INDICATOR	25
Stream, Lake, or Tide (			Primary Indic			
☐ Aerial Photographs	Juage			nundated Saturated in Upper	10 Inchan	
Olher			_	Vater Marks	12 Inches	
			-	Orift Lines		
No Recorded Data Availab	le		_	Sediment Deposits		
FIELD OBSERV	ATIONS		<b>A</b> .	Orainage Patterns i	n Wellands	
Depth of Surface Water		Ø (ir	IJ   <u>-</u>	dicators (2 or more		12 Inches
Depth to Free Water in Pit		>8 (ir	)	Vater-Stained Leav Local Soil Survey D		
Depth to Salurated Soil		6 (in		FAC-Neutral Test Other (Explain in R	emarks)	

Shallow slate bedrock creates a perched water table here. Criteria met

SOILS				31 perunt slopez -	510
Map Unit Name (S	eries and Phase)	Exchagner and A	whom larm, 3 to	Drainage Class (%)	essively drained
Taxonomy (Subgro		b		Confirm Mapped Type	7
		PROFIL	E DESCRIPTION		
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-3	<u> </u>	2.5 Y 4/1	10 YR 4/4	30% dull	clay loam
3-8	B	2.5 Y 4/1	10 YR 4/4	30/2 dull	rocky clay
	_60-01 14				
			SOIL INDICATORS:		
Reducing Gleyed or Remarks:	dor sture Regime Conditions Low-Chroma Colo	Slate bedroc	Organic Listed or Listed or Other (E	ganic Content in Surface Streaking in Sandy Soil In Local Hydric Soils List In National Hydric Soils I Explain in Remarks)	ls t
WETLAND DET Hydrophytic Veget	,	(YES) NO			
Wetland Hydrolog Hydric Soils Prese		(YES) NO	Is this Sampling P	oint Within a Wetland?	YES NO
Remarks	riferia h	re. t			

#### ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

- 2	2	to The Control of the Specific		<u> </u>	1./10 /	114
Project/Site Ione Casin	no Proje	re t	~	Date	11/19/03	
Applicant / Owner			1 1	County	Amador	
	ohn Howe	John /	Miller	State	CA	
Do Normal Circumstances exist on	the site?		YES NO	Community		
Is the site significantly disturbed (Aty	ypical Situati	on)?	YES (NO)	Transect ID	Vernal Swale	Wot landin
Is the area a potential Problem Area	a? (If needed, e	xplain on revers	) YES NO	Plot ID	511	
15057171041						
VEGETATION  Deminent Plant Species	Ctratum	Indicator	Dominant B	lant Caprice	Chatum	Indicates
Dominant Plant Species	Stratum			Plant Species	Stratum	Indicator
1 Eleocharis macrostachya	H	DBL	9			
2			10			-
3			11			
4			12	· · · · · · · · · · · · · · · · · · ·		
5			13			
6			14	-		
7	a Hamalandary		15			
8			16			
Percent of Dominant Species that a	re OBL, FAC	W, or FAC (	excluding FAC-)	1/1 =	100%	
Criteria met.						
HYDROLOGY		TI				
			WETL	AND HYDRO	LOGY INDICATO	RS
Recorded Data (Describe in			Primary Indica	ators:		
☐ Stream, Lake, or Tide (	Gauge		☐ Ir	nundated		
☐ Aerial Photographs					pper 12 Inches	
☐ Other				Vater Marks		
No Recorded Data Availab	lo.			rift Lines		
			~~	Sediment Dep		
FIELD OBSERV	AHONS			rainage Patte	erns in Wetlands	
Depth of Surface Water		<b>X</b> (II	71		more Required): Channels in Uppe	er 12 Inches
Depth to Free Water in Pit		>16 (iii	7) -	Vater-Stained ocal Soil Surv		
Depth to Saturated Soil	_	>16 (1	-\	AC-Neutral T Other (Explain		
	-17	101			11 1 1	

Vernal Swale has been blocked by old landing strip fill, which caused Seasonal ponding. Criteria init.

SOILS			-	31 perunt stopes	
Map Unit Name (Se	eries and Phase):	Exchanger and A	when lean, 3 to	Drainage Class: @x	cessively drained
Taxonomy (Subgro	oup)		Field Observations	Confirm Mapped Type	? YES NO
		PROFI	LE DESCRIPTION		
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions Structure, etc.
0-2	A	2.5 Y 4/2		10% faint	Clayloan
2-16	B	2.54 4/3			clay loan
				`	1
		1			
		HYDRIC	SOIL INDICATORS:		
☐ Histosol			☐ Concret	ions	
☐ Histic Epip	edon		High Or	ganic Content in Surfac	e Laver in Sandy Soils
Sulfidic Od			_ ~	Streaking in Sandy Soi	,
				•	
	ture Regime			n Local Hydric Soils Lis	
☐ Reducing (	Conditions		Listed o	n National Hydric Soils	List
Gleyed or t	Low-Chroma Cold	ors	Other (	Explain in Remarks)	
Remarks.					10000
Δ.	1	111	-111111	low are his L	o. 1
Crite	ria hot me	+ Hydri	C Still Therice	forh are weak	j MhR
	, 11	P 1	11/4		
0 ecu	1 1h the 5	instance layer	- GATI		
		,			
WET AND DET			, <del>, , , , , , , , , , , , , , , , , , </del>		
VETLAND DET		(YES) NO			
Wetland Hydrology			I to this Sampling F	Point Within a Wetland?	YES NO
		-	) is this Sampling F	Onit Within a Wetland?	YES NO
Hydric Soils Prese	mt?	YES (NO	/ ]		
Remarks	۸				
Thi	5 dedure	is a man-	made art	ficial pend	ku ith
17,7	5 1 ( W) / W) C		1	f - w	
hydrop	1.1.				
riyarop	rillice ,				

-	OD Proje	oc.t		Date	1/19/03	
Applicant / Owner				County	Amador	
Investigator G.O. Grathing	John H	lowe To	An Miller	State C.		
Do Normal Circumstances exist or			(YES) NO	Community ID		
Is the site significantly disturbed (A	typical Situati	on)?	YES NO	Transect ID /	erhal Swale a-	1 Sendot 1
Is the area a potential Problem Are	a? (If needed, e	explain on revers	YES NO	Plot ID	512	
EGETATION						
Dominant Plant Species	Stratum	Indicator	Dominant P	lant Species	Stratum	Indicator
1 Eryngium Castrense	H	FACH	9			
2 Agrostis Stolenitera	H	FACW	10			
3			11	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
4			12		`	
5			13			
6			14		******	
7			15			
8		-	16			
Percent of Dominant Species that	are OBL, FAC	DW, or FAC (	xcluding FAC-)	2/2 =	100%	
HYDROLOGY						
HYDROLOGY  Recorded Data (Describe Stream, Lake, or Tide Aerial Photographs Other	_		Primary Indicate Indi	nundaled aturaled in Uppo Valer Marks		RS
Recorded Data (Describe  Stream, Lake, or Tide  Aerial Photographs	Gauge		Primary Indicate In Indicate In	ators: nundated aturated in Uppe	er 12 Inches	RS
Recorded Data (Describe  Stream, Lake, or Tide  Aerial Photographs  Other	Gauge		Primary Indicates Indicate	ators: nundated aturated in Uppo Vater Marks Orift Lines	er 12 Inches Its	RS
Recorded Data (Describe  Stream, Lake, or Tide  Aerial Photographs  Other  No Recorded Data Availa	Gauge	<b>(</b> i)	Primary Indication of the secondary Indication of Indication Indication of Indication Indication Indication Indication Indication Indication I	ators: nundated saturated in Upper Vater Marks Prift Lines sediment Deposi Prainage Pattern dicators (2 or mo	er 12 Inches its s in Wetlands ore Required): nannels in Upper	
Recorded Data (Describe  Stream, Lake, or Tide Aerial Photographs Other  No Recorded Data Availa	Gauge ble VATIONS	) (ii	Primary Indication of the secondary In Control of the seco	ators: nundated saturated in Upper Vater Marks Orift Lines Sediment Deposi Orainage Pattern	er 12 Inches its s in Wetlands ore Required): nannels in Upper eaves v Data	

Vernal Swale has been blocked by old landing strip fill which causes Seasonal ponding.

Map Unit Name (Se	ries and Phase):	Exchequer and A	luber loon 3te	Drainage Class:	essively drained
Taxonomy (Subgro				Confirm Mapped Type?	YES NO
		PROFIL	E DESCRIPTION		
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Calors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-14	<u> </u>	2.5 Y 5/3	10 YR 4/4	40% dull	clay her
					,
		HYDRIC	SOIL INDICATORS:		
☐ Histosol			Concreti	ons	
Histic Epipe			_ ` `	ganic Content in Surfac	
Sulfidic Ode				Streaking in Sandy Soil	
	ture Regime		_	n Local Hydric Soils List	
Reducing C	ong:lions .ow-Chroma Cold	ore.	_	n National Hydric Soils I xplain in Remarks)	_151
Remarks:					
Criter	ia hot me	· <del>†</del>			
WETLAND DETE	RMINATION				
Hydrophytic Vegeta	ation Present?	(YES) NO			
Wetland Hydrology	Present?	YES NO	Is this Sampling P	oint Within a Wetland?	YES (NO)
Hydric Soils Preser	nt?	YES (NO)			
Remarks				, ,	
5	ite is a	vernal Swa	le at its	head.	

Project/Site Ione Cusi	ho FIM	PCH		Date	II,	/19/0	<i>&gt;</i>
Applicant / Owner	J			County	Am	ador	
Investigator G.O. Graening	, John H	lowe, Joi	in Miller	State	(	CA	
Do Normal Circumstances exist on		,	(YES) NO	Community	y ID		
Is the site significantly disturbed (At	ypical Situati	on)?	YES NO	Transect II	> Vern	a Swale	E of landing
Is the area a potential Problem Area	? (If needed, e	xplain on revers	e) YES NO	Plot ID		1 10 1	527
ZEOETA TION							
/EGETATION  Dominant Plant Species	Stratum	Indicator	Dominant P	Plant Species		Stratum	Indicator
1 Eleocharis Macrostachya	Н	DBL	9				
2 Eryngium Castichise	H	FACW	10				
2 Eryngium Castrense 3 Eremorarpus Setigerus	H	HOL	11				
4			12				
5	1,11,12		13				
6			14	100-2			
7			15				
			16	==			
Percent of Dominant Species that a Remarks  Chileria met		 SW, or FAC ((		2/3	= 6	7%	1
Percent of Dominant Species that a Remarks		W, or FAC (		2/3	= 6	7%	
Percent of Dominant Species that a Remarks  Chileria met		EW, or FAC (		2/3	= 6	7%	
Percent of Dominant Species that a Remarks  Chileria met  HYDROLOGY	•	EW, or FAC (	excluding FAC-)	2/3			DRS
Percent of Dominant Species that a Remarks  Chileria met  HYDROLOGY	n Remarks)	SW, or FAC (	wetl Primary Indica	AND HYDRO			DRS
Percent of Dominant Species that a Remarks  CHATIA MET  HYDROLOGY  Recorded Data (Describe is Stream, Lake, or Tide	n Remarks)	W, or FAC (	WETL Primary Indica	AND HYDRO ators: nundated	DLOGY	'INDICATO	DRS
Percent of Dominant Species that a Remarks  Chileria met  HYDROLOGY  Recorded Data (Describe i  Stream, Lake, or Tide Aerial Photographs	n Remarks)	EW, or FAC (	WETL Primary Indic.	AND HYDRO ators: nundated Salurated in U	DLOGY	'INDICATO	DRS
Percent of Dominant Species that a Remarks  CHATIA MET  HYDROLOGY  Recorded Data (Describe is Stream, Lake, or Tide	n Remarks)	W, or FAC (	WETL Primary Indicates  Sexcluding FAC-)	AND HYDRO ators: nundated Saturated in U Vater Marks	DLOGY	'INDICATO	DRS
Percent of Dominant Species that a Remarks  Chileria met  HYDROLOGY  Recorded Data (Describe i  Stream, Lake, or Tide Aerial Photographs	n Remarks) Gauge	SW, or FAC (	WETL Primary Indicates    State   Stat	AND HYDRO ators: nundated Saturated in U Vater Marks Orift Lines	DLOGY Jpper 1	'INDICATO	DRS
Percent of Dominant Species that a Remarks  Chileria met  HYDROLOGY  Recorded Data (Describe i  Stream, Lake, or Tide Aerial Photographs Other	n Remarks) Gauge ble	W, or FAC (	WETL Primary Indicates  States  States	AND HYDRO ators: nundated Saturated in U Vater Marks	DLOGY Jpper 1	'INDICATO 2 Inches	DRS
Percent of Dominant Species that a Remarks  Chileria met  HYDROLOGY  Recorded Data (Describe i  Stream, Lake, or Tide i Aerial Photographs Other  No Recorded Data Availat	n Remarks) Gauge ble	W, or FAC (i	WETL Primary Indic.  Secondary In	AND HYDRO ators: nundated Saturated in U Vater Marks Drift Lines Sediment Dep Drainage Patt dicators (2 o	DLOGY Upper 1 Dosits Gerns in	INDICATO Inches Wellands Required):	
Percent of Dominant Species that a Remarks  Chileria met  HYDROLOGY  Recorded Data (Describe in Stream, Lake, or Tide in Aerial Photographs Other  No Recorded Data Availation	n Remarks) Gauge Die	Ø (i	WETL Primary Indicate  Secondary In  Secondary In  O  O  O  O  O  O  O  O  O  O  O  O  O	AND HYDRO ators: nundated Saturated in U Vater Marks Orift Lines Sediment Dep	DLOGY Deposits Deposi	2 Inches Wetlands Required): nets in Upp	

Shallow bedrock creates conditions that lead to the seasonal pending of water. Criteria met.

Map Unit Name (Series an Taxonomy (Subgroup)  Depth (inches)  O	orizon			Mottle Abundance/Contrast	? YES NO  Texture, Concretions Structure, etc.
Depth (inches)	CALANT PROTECTION CO.	Matrix Color (Munsell Moist)	LE DESCRIPTION  Mottle Colors  (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions Structure, etc.
(inches)	CALANT PROTECTION CO.	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Abundance/Contrast	Structure, etc.
(inches)	CALANT PROTECTION CO.	(Munsell Moist)	(Munsell Moist)	Abundance/Contrast	Structure, etc.
1	A			10% bright	, ,
					Clay loom
	-				
				-	
		UVDDIC	SOIL INDICATORS:		
Aquic Moisture Re Reducing Condition Gleyed or Low-Ct Remarks:	ons Iroma Colors		Listed o	n Local Hydric Soils Lis n National Hydric Soils Explain in Remarks)	
Criteria M Slade be			ar the ground	surface.	
VETLAND DETERMI	NATION	***************************************		•	MINISTER OF THE PROPERTY OF TH
Hydrophytic Vegetation P	resent?	(YES) NO			
Wetland Hydrology Prese	nt?	(YES) NO	Is this Sampling F	oint Within a Wetland?	YES (NO)
Hydric Soils Present?		YES (NO)			
Remarks			~!		
	1. 15	a vernal s	Swale		

Project/Site Ione Casin	10 Proj	ect		Date 11/	/19/03	
Applicant / Owner					adoir	
Investigator G.O. Giraening, John Howe, John Miller				State CA		
Do Normal Circumstances exist on the site?				Community ID		
Is the site significantly disturbed (At	Is the site significantly disturbed (Atypical Situation)?				nul swale E	of landing
Is the area a potential Problem Area? (If needed, explain on reverse)			YES NO	Plot ID T	PZ 5	28
VEGETATION						
Dominant Plant Species	Stratum	Indicator	Dominant F	Plant Species	Stratum	Indicator
1 Hemitonia fasciculada	Н	NOL	9			
2 Vulpia myuret-	H	FACU *	10			
3			11			
4			12			
5			13			
6			14			
7			15			
8			16			
Percent of Dominant Species that a	re OBL, FAC	CW, or FAC (	xcluding FAC-)	0/2 =0	7,	
Criteria not m	( ( )				•	
HYDROLOGY			-	The second secon		
Recorded Data (Describe i	n Remarks)		WETL	AND HYDROLOG	Y INDICATO	RS
	ŕ		Primary Indicators:			
Stream, Lake, or Tide  Aerial Photographs	Gauge			nundaled	45.	
Other				Saturated in Upper Vater Marks	12 Inches	
				Orift Lines		
No Recorded Data Availal	ole		_	Sediment Deposits		
FIELD OBSERV	ATIONS			Drainage Patterns		
Depth of Surface Water		Ø (ir	''	ndicators (2 or more		r 12 Inches
Depth to Free Water in Pit	7	> <i>g</i> (ii	ם נ	Water-Stained Lea Local Soil Survey [		,
Depth to Saturated Soil	7	7 8° (i)		FAC-Neutral Test Other (Explain in R	temarks)	

No indicators apparent.

SOILS				le 31 pirant-sliges	. TIPZ		
Map Unit Name (Se	eries and Phase):	Exchequer and		Drainage Class: ⊘n t			
Taxonomy (Subgro		U	Field Observations Confirm Mapped Type? YES NO				
		PROFIL	LE DESCRIPTION				
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.		
0-8	A	2.5 Y 5/4	NIA	behe	Elay loom		
					/		
	•						
	-						
		HYDRIC	SOIL INDICATORS:				
☐ Histosof		ITDRIC					
			☐ Concreti				
☐ Histic Epipe☐ Sulfidic Od				ganic Content in Surface			
			_	Streaking in Sandy Soil			
	ture Regime			Local Hydric Soils List			
<ul><li>☐ Reducing Conditions</li><li>☐ Gleyed or Low-Chroma Colors</li></ul>			$\overline{}$	n National Hydric Soils I	_191		
Remarks:		JI 5	U Other (E	xplain in Remarks)			
	ria hod me	i. Slate	bedruk is.	near the grow	nd surface.		
WETLAND DETE	ERMINATION		THE RESERVE THE PERSON NAMED IN THE PERSON NAM				
Hydrophytic Vegeta	ation Present?	YES NO					
Wetland Hydrology	Present?	YES NO	Is this Sampling P	oint Within a Wetland?	YES (NO)		
Hydric Soils Preser	nt?	YES (NO)	The state of the s				
Remarks	* * * * * * * * * * * * * * * * * * * *				_		
	Л	,	,				
	Crife	ria not me	4.				
	2,771	7,0,0,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7	1				

SOILS

Project/Sile Iohe Casin	10 Proje	c			Date	11/19/03	
Applicant / Owner					County	Amador	
Investigator & D. Braening	John Hol	we, John	Miller		State	CA	
Do Normal Circumstances exist on	the site?	,.	(YES	) NO	Community I	D	
Is the site significantly disturbed (At	ypical Situation	on)?	YES	(NO)	Transect ID	Vernal Swale	Not land
Is the area a potential Problem Area	a? (If needed, e	xplairi on reverse	) YES	(10)	Plot ID	513	
ZEGETATION.						-cr-cox Casac	
VEGETATION	Stratum	Indicator	Dam	inant D	lant Species	Stratum	Indicator
Dominant Plant Species	TI		9	mant F	Tant Species	Stratum	indicator
1 Etyngium Castrense	Н	FACE	10				
2 Lythrum hyssopitalium	<u>H</u>	FACW	-				
3 Hemizonia tasciculata	<i>H</i>	NOL	11				
4 Vulpia myutos	H	FACUX	12				
5			13				
6			14				
7		<u> </u>	15				
8			16			0/	
Percent of Dominant Species that a Remarks	re OBL, FAC	CW, or FAC (e	xcluding F	4C-}	2/4	= 50%	
Criteria I	hod met						
HYDROLOGY							
Recorded Data (Describe in Remarks)  Stream, Lake, or Tide Gauge  Aerial Photographs  Other			Primai	ry Indica Ir Is V	ators: nundated saturated in Up Vater Marks	OGY INDICATOR	रड
No Recorded Data Available					Orift Lines Sediment Depo	osils	
FIELD OBSERV	'ATIONS				Orainage Patte	rns in Wellands	
Depth of Surface Water	ý	グ (ir	Secor			more Required): Channels in Uppe	r 12 Inches
Depth to Free Water in Pit	>	/ b (in	n)		Vater-Stained ocal Soil Surv	ey Data	
Depth to Saturated Soil	>	/ O (ir	n)		FAC-Neutral To Other (Explain		

Criteria not met.

	ì	
2	ĺ	3

Map Unit Name (S	eries and Phase):	Exchequer and A	when loan; 3+	Drainage Class: 🚓	ccultily drained		
Taxonomy (Subgro		C		s Confirm Mapped Type			
/		PROFIL	E DESCRIPTION				
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contras	Texture, Concretions, Structure, etc.		
0-8	A	2.5 Y 5/4	N/A	hone	Sandy loan		
8-10	$\mathcal{B}$	2.5 Y 4/4	N/A	ninc	Clay loan		
					/		
		HYDRIC	SOIL INDICATORS	:			
☐ Histosol			☐ Concre	etions			
☐ Histic Epip	edon		☐ High O	rganic Content in Surfac	ce Layer in Sandy Soils		
Sulfidic Oc	Гог		Organic	c Streaking in Sandy Sc	oils		
	ture Regime			on Local Hydric Soils Lis			
☐ Reducing				on National Hydric Soils	List		
Gleyed or Remarks:	Low-Chroma Colo	rs	U Other (	Explain in Remarks)			
() tite	ria hot me	, † <u> </u>					
WETLAND DET	ERMINATION						
Hydrophytic Veget	ation Present?	YES NO					
Wetland Hydrology	Present?	YES (NO)	Is this Sampling Point Within a Wetland? YES (NO				
Hydric Soils Prese	nt?	YES (NO)					
Remarks							

Project/Site Ione Casin	o Proj	?c+			Date	11/1	19/03	
Applicant / Owner					County	Ain	edor	
Investigator 6.0. Graching	John Ho	we, Joi	In M	filler	State	CA		
Do Normal Circumstances exist on t	he site?		(	YES NO	Community	y ID		
Is the site significantly disturbed (Aty	pical Situation	on)?		YES NO	Transect II	Vern	uil poil E	of- Huy . 49
Is the area a potential Problem Area	? (If needed, e	xplain on rever	se)	YES NO	Plot ID	51	4	
/EGETATION	2/	1 1 1 1	-	D : LD	110		0	
Dominant Plant Species	Stratum	Indicator	1	Dominant P	lant Species		Stratum	Indicator
1 Eleocharis macrostactya	Н.	OBL.	9					
2 Etynglam Castionic	H	FACW	10					
3			11					
4			12					
5			13					
6		ļ	14					
7			15					
8			16					
					~ 1 ~	. D	7	
Percent of Dominant Species that an Remarks  Criteria met.	re OBL, FAC	CW, or FAC	(excludi	ing FAC-)	2/2 =	= /000	/s	
Percent of Dominant Species that an Remarks	re OBL, FAC	CW, or FAC	excludi	ing FAC-)	2/2 =	= /00 [	/8	
Percent of Dominant Species that an Remarks	re OBL, FAC	CW, or FAC	excludi	ing FAC-)	2/2 =	= /00 [	/8	
Percent of Dominant Species that an Remarks  Criteria met.  HYDROLOGY		CW, or FAC	éxcludi		AND HYDRO			RS
Percent of Dominant Species that an Remarks  Criteria met.  HYDROLOGY	n Remarks)	CW, or FAC		WETL	AND HYDRO			RS
Percent of Dominant Species that an Remarks  Criteria, met.  HYDROLOGY  Recorded Data (Describe in Stream, Lake, or Tide Company)	n Remarks)	CW, or FAC		WETL Primary Indica □ Ir	AND HYDRO ators: nundated	DLOGY	INDICATO	RS
Percent of Dominant Species that an Remarks  Critica met -  HYDROLOGY  Recorded Data (Describe in Stream, Lake, or Tide of Aerial Photographs	n Remarks)	CW, or FAC		WETL Primary Indica □ Ir □ S	AND HYDRO ators: nundated saturated in L	DLOGY	INDICATO	RS
Percent of Dominant Species that an Remarks  Criteria, met.  HYDROLOGY  Recorded Data (Describe in Stream, Lake, or Tide Company)	n Remarks)	CW, or FAC		WETL Primary Indica In Ir In S	AND HYDRO ators: nundated aturated in l	DLOGY	INDICATO	RS
Percent of Dominant Species that an Remarks  Critica met -  HYDROLOGY  Recorded Data (Describe in Stream, Lake, or Tide of Aerial Photographs Other	n Remarks) Gauge	CW, or FAC		WETL Primary Indica In s U s	AND HYDRO ators: nundated aturated in to vater Marks orift Lines	OLOGY Jpper 1:	INDICATO	RS
Percent of Dominant Species that an Remarks  Critica met.  HYDROLOGY  Recorded Data (Describe in Describe in Aerial Photographs	n Remarks) Gauge	CW, or FAC		WETL Primary Indica In S WETL	AND HYDRO ators: nundated aturated in l	DLOGY Upper 1	INDICATO 2 Inches	RS
Percent of Dominant Species that an Remarks  Critica met  HYDROLOGY  Recorded Data (Describe in Stream, Lake, or Tide of Aerial Photographs Other  No Recorded Data Availabe	n Remarks) Gauge	~	F	WETL  Primary Indica In s  S  S  S  S	AND HYDRO ators: nundated saturated in to vater Marks orift Lines sediment Deporationage Pate	DLOGY Upper 1: posits terns in	INDICATO 2 Inches Wetlands	RS
Percent of Dominant Species that an Remarks  Critica met  HYDROLOGY  Recorded Data (Describe in Stream, Lake, or Tide of Aerial Photographs Other  No Recorded Data Availab	n Remarks) Gauge	~	F	WETL Primary Indica Ir S S Secondary In	AND HYDRO ators: nundated saturated in to vater Marks orift Lines sediment Deporationage Pate	DLOGY  Upper 12  posits  terns in	INDICATO 2 Inches Wetlands Required):	
Percent of Dominant Species that an Remarks  Critica met  HYDROLOGY  Recorded Data (Describe in Stream, Lake, or Tide of Aerial Photographs Other  No Recorded Data Availabe	n Remarks) Gauge ole ATIONS	Ø	F	WETL Primary Indica In Secondary In	AND HYDRO ators: nundated saturated in to vater Marks orift Lines dediment Deporationage Pate	DLOGY  posits  terns in  r more in  t Channel  d Leave	INDICATO 2 Inches Wetlands Required): nels in Uppe	

Shallow bedrock facilitates the seasonal ponding of water. Criteria mi-

OILS				to 31 percent slog	S14
Map Unit Name (Se	ries and Phase):	Exchequer and	Auburn loan 3	Drainage Class: Cx	cessively drained
Taxonomy (Subgro	up)	C -	Field Observations	Confirm Mapped Type	
		PROFIL	E DESCRIPTION		
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions Structure, etc.
0-8	0-8 A 2		N/A	Mole	clay loam
		HYDRIC :	SOIL INDICATORS:		7.000 7-W 1011
☐ Histoso!			Concreti	one	
Histic Epipe	odon			ons ganic Content in Surfac	o Layer in Sandy Saila
				Streaking in Sandy Soi	
☐ Sulfidic Odor ☐ Aquic Moisture Regime ☐ Reducing Conditions ☐ Gleyed or Low-Chroma Colors				Local Hydric Soils Lis	
			<ul> <li>☐ Listed on National Hydric Soils List</li> <li>☐ Other (Explain in Remarks)</li> </ul>		
Remarks:	202				
Committee of the commit	iria not m	$\epsilon t$ .			
~ 5	1 / .	,	į.		
'ola-	te, bidrock	is hear sur	tau_		
VETLAND DETE				1	
Hydrophytic Vegeta		(YES) NO			
Wetland Hydrology		(YES) NO	Is this Sampling P	oint Within a Welland?	YES (NO)
	•		13 this Outlinearing I	onit vvitimi a vvettang:	123 (10)
Hydric Soils Preser Remarks	11.5	YES (NO)			
Remarks					
	. }	. 1	j		
· .	site 15 0	. Vernal F	1001-		
_		.1			
		v			
		V			
		V			
		v			
		V			
		V			

Project/Site Ione Casino	Project			Date 11/	19/03	_
Applicant / Owner	County A	nador	_			
Investigator 6.0. Grathing , J.	State CA					
Do Normal Circumstances exist on the site?  YES NO				Community ID		
Is the site significantly disturbed (Aty	Is the site significantly disturbed (Atypical Situation)?			Transect ID N	orth stic	k pond
Is the area a potential Problem Area	? (If needed, e	explain on reverse	YES NO		315	
/FOFTATION						
VEGETATION	Stratum	Indicator	Dominant P	lant Species	Stratum	Indicator
	11	OBL_	9	татт орошев	Ollatain	maleator
1 Eleocharis imagrastachyo		UDL-	10			
3			11			
4			12			
5			13			
6			14			
7			15			
8			16	· · · · · · · · · · · · · · · · · · ·		
Percent of Dominant Species that ar	ORL FAC	I or EAC (e	101111	1/1 = 100	*/	
HYDROLOGY	W					
			WETL	AND HYDROLOG	Y INDICATOR	RS
Recorded Data (Describe in	•		Primary Indicators: 100 H. Thin S15			
Stream, Lake, or Tide (	Sauge		"Individueled"			
☐ Aerial Photographs ☐ Other			Saturated in Upper 12 Inches			
D Other			1	Vater Marks Orift Lines		
No Recorded Data Availab	le			_		
FIELD OBSERV				☐ Sediment Deposits ☐ Drainage Patterns in Wetlands		
- I		12 <del>X</del>		-		
Depth of Surface Water		12 / (ir	7	dicators (2 or more		v 10 ln -b
				Oxidized Root Char Vater-Stained Leav		F 1∠ Inches
Depth to Free Water in Pit	-	712 (ii	1)	ocal Soil Survey D		
				AC-Neutral Test		
Depth to Saturated Soil	`	> 12. (ii	n)	Other (Explain in Ro	emarks)	

Criteria met.

5	į	5
$\sim$	(	_

Histosol  Histo Epipedon  Sulfidic Odor	A	PROFIL Matrix Color (Munsell Moist) 2.5 Y 5/4	Field Observations  E DESCRIPTION  Mottle Colors (Munsell Moist)  2.5 Y 4/4   SOIL INDICATORS:  Concretic High Org	Mottle Abundance/Contrast  Ain I-  ons ganic Content in Surface Streaking in Sandy Soils	Texture, Concretions, Structure, etc.  Clay /Lem  Layer in Sandy Soils	
Depth (inches)  Depth (inches)  Depth (inches)  Histosol Histoc Epipedon Sulfidic Odor	A	PROFIL Matrix Color (Munsell Moist) 2.5 Y 5/4	Field Observations  E DESCRIPTION  Mottle Colors (Munsell Moist)  2.5 Y 4/4   SOIL INDICATORS:  Concretic High Org	Mottle Abundance/Contrast  Air I-  ons ganic Content in Surface Streaking in Sandy Soils	Texture, Concretions, Structure, etc.  Clay /Lem  Layer in Sandy Soils	
(inches)  (inche	A	Matrix Color (Munsell Moist) 2.5 Y 5/4	Mottle Colors (Munsell Moist)  2.5 Y 4/4  SOIL INDICATORS:  Concretic High Org	Abundance/Contrast  Anin +  ons  ganic Content in Surface Streaking in Sandy Soils	Structure, etc.  Clay / Len  Layer in Sandy Soils	
(inches)  D - 1 Z  Histosol  Histo Epipedon  Sulfidic Odor	A	(Munsell Moist) 2.5 Y 5/4	(Munsell Moist)  2.5 Y 4/4  SOIL INDICATORS:  Concretic High Org	Abundance/Contrast  Anin +  ons  ganic Content in Surface Streaking in Sandy Soils	Structure, etc.  Clay / Len  Layer in Sandy Soils	
☐ Histosol ☐ Histo Epipedon ☐ Sulfidic Odor	eaime		SOIL INDICATORS:  Concreti	ons ganic Content in Surface Streaking in Sandy Soils	e Layer in Sandy Soils	
☐ Histic Epipedon☐ Sulfidic Odor	egime	HYDRICS	Concreti	ons ganic Content in Surface Streaking in Sandy Soils	s	
Histic Epipedon Sulfidic Odor	egime	HYDRIC (	Concreti	ganic Content in Surface Streaking in Sandy Soils	s	
Histic Epipedon Sulfidic Odor	egime	HYDRIC	Concreti	ganic Content in Surface Streaking in Sandy Soils	s	
Histic Epipedon Sulfidic Odor	egime	HYDRIC S	Concreti	ganic Content in Surface Streaking in Sandy Soils	s	
☐ Histic Epipedon ☐ Sulfidic Odor	egime	HYDRIC	Concreti	ganic Content in Surface Streaking in Sandy Soils	s	
Histic Epipedon Sulfidic Odor	egime	HYDRIC	Concreti	ganic Content in Surface Streaking in Sandy Soils	s	
☐ Histic Epipedon ☐ Sulfidic Odor	eaime	HYDRIC (	Concreti	ganic Content in Surface Streaking in Sandy Soils	s	
☐ Histic Epipedon ☐ Sulfidic Odor	egime	HYDRIC	Concreti	ganic Content in Surface Streaking in Sandy Soils	s	
☐ Histic Epipedon ☐ Sulfidic Odor	'egime	HYDRIC (	Concreti	ganic Content in Surface Streaking in Sandy Soils	s	
☐ Histic Epipedon ☐ Sulfidic Odor	'eaime		☐ High Org	ganic Content in Surface Streaking in Sandy Soils	s	
Sulfidic Odor	legime		_	Streaking in Sandy Soils	s	
	'eaime		U Organic	-		
	'eaime		_			
Aquic Moisture R	_		Listed or	Local Hydric Soils List		
Reducing Condition	ions		Listed or	on National Hydric Soils List		
☐ Gleyed or Low-Ch	hroma Colors	6	U Other (E	xplain in Remarks)		
Cir Herîa	a hot mo	ef.				
WETLAND DETERMI	NATION					
Hydrophytic Vegetation P	resent?	YES NO				
Wetland Hydrology Prese	ent?	(YES) NO	Is this Sampling Po	oint Within a Wetland?	YES (NO )	
Hydric Soils Present?		YES NO				
Remarks						
This	isα	stock p	and with h	ydrophylic V	regulation.	

Project/Site Ione Casin	o Proje	c+			Date /	1/19/03	
Applicant / Owner					County /	mador	
Investigator G. O. Graening	John,	Howe J	Tohn	Miller	State (	CA	
Do Normal Circumstances exist on			_	(YES) NO	Community I		
Is the site significantly disturbed (At	ypical Situati	on)?		YES NO	Transect ID	Seep at base 516	of dam
Is the area a potential Problem Area	1? (If needed, e	explain on rever	se)	YES (NO)	Plot ID	516	
EGETATION							
Dominant Plant Species	Stratum	Indicator		Dominant Pl	ant Species	Stratum	Indicator
1 Elescharis macristalya	Н	OBL	9				
2 Juneus balticus	H	OBL	10		A STATE OF TAXABLE		
3 Mentha pulegian	H	DBL-	11				
4			12				
5			13				
6			14				
7			15				
8			16				
Percent of Dominant Species that a	re OBL, FAC	CW, or FAC (	(exclud	ding FAC-)	3/3 = 1	100%	
				and the second of the second of		•	
HYDROLOGY						Alls Co-microscope Company	
Recorded Data (Describe in Stream, Lake, or Tide in Aerial Photographs  Other			}	Primary Indica		OGY INDICATOR	<b>?</b> S
				_	rater Marks rift Lines		
No Recorded Data Availat	ole		}		ediment Depo	sits	
FIELD OBSERV	ATIONS			<b>A</b> D	rainage Patter	ns in Wetlands	
Depth of Surface Water		Ø	(in)		•	more Required): Channels in Uppe	r 12 Inches
Depth to Free Water in Pit		>12 (	(in)		Vater-Stained I ocal Soil Surve	ey Data	
		Ŭ F	AC-Neutral Te	est			

Depth to Saturated Soil

7/2 (in)

Other (Explain in Remarks)

OBL Species Singgest that hydrology is present at other times in the year.

OILS				ST PERCENT STOPES	
Map Unit Name (Se	eries and Phase	o: Exchequir and A	uburn loam, 3to	Drainage Class: 070	esticity drained
Taxonomy (Subgro		•		Confirm Mapped Type?	
		PROFI	LE DESCRIPTION		
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Moitle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-12	A	2.5Y 5/4	N/A	hone	clay loam
			, 411 ( <del>411 (411 (411 (411 (411 (411 (411</del>		
		HYDRIC	SOIL INDICATORS		
Histosol			☐ Concret	ions	
☐ Histic Epipe	edon		High Or	ganic Content in Surface	e Laver in Sandy Soils
Sulfidic Ode				Streaking in Sandy Soil	
	ture Regime			n Local Hydric Soils List	
Reducing C	-			n National Hydric Soils I	
_	Low-Chroma Col	iors		Explain in Remarks)	
Remarks:					
	1	) (1)	1 , ; . /	eind 1-foot 6	1/2. 1h.
CHHO	tia not me	t. DIAE.	bidrock 15 t	eund. 1-1009 B	CION III
0.1	ound level-				
95	adna 160el-				
VETLAND DETE	ERMINATION			eries por exemple de la constante de Alexandra de Alexandra de Carlos de Car	
Hydrophytic Vegeta	alion Present?	(YES) NO		CHAIL AND THE STATE OF THE STAT	_
Wetland Hydrology	Present?	(YES) NO	Is this Sampling F	oint Within a Wetland?	YES (NO)
Hydric Soils Preser		YES NO			
Domarko	~~~~				
	vD ! -		1/1/	1 , ,	;
L	)RT Edic	ie I indicat	e that for	ing hydrolog	1) 15
Present	, however	, the lack	. of hydric	Cing hydrolog	, 39est
)	1	P 11	<i>′</i>		
a rece	int Origi	n for this	Step.		

Project/Site Ione Ca		Date 11/25/03						
Applicant / Owner		County Amader						
Investigator John Howe, John Miller						CA		
Do Normal Circumstances exist on the site?						y ID		
Is the site significantly disturbed (At	typical Situation	on)?		YES NO	Transect II	DNW	Trib Dry	Cr. NNE 6
Is the area a potential Problem Are	a? (If needed, e	xplain on :eve	erse)	YES NO	Plot ID	4	517	
EGETATION								
Dominant Plant Species	Stratum	Indicator	r	Dominant P	lant Species		Stratum	Indicator
1 Aesculus californica	S	NOL	9					
2 Claytonia parvillora	H	FAC	10					
3			11					
4		Fall Constant of Man	12			1		
5			13					
6			14					
7			15	*				
8			16					
Percent of Dominant Species that a	are OBL, FAC	W, or FAC	(exclud	lina EACA	1/2 =	50	7,	-
Remarks Chiteria hot				ing ( AC-)	1/2-	<u>,                                    </u>		
Remarks				ing ( A0-)	112-			
Remarks Chiferia hot						VXX to 11	Notes to the Nation of the Nat	
Remarks Chiteria hot	mit.			WETL	AND HYDRO	VXX to 11	Notes to the Nation of the Nat	RS
Chiteria. hot  IYDROLOGY  Recorded Data (Describe)	m i√.			WETL/ Primary Indica	AND HYDRO	VXX to 11	Notes to the Nation of the Nat	RS
Crítería hot	m i√.			WETL/ Primary Indica □ Ir	AND HYDRO	DLOGY	'INDICATO	RS
Chiteria. hot  Stream, Lake, or Tide	m i√.			WETL/ Primary Indica In	AND HYDRO	DLOGY	'INDICATO	RS
Remarks  Chiteria. hot  IYDROLOGY  Recorded Data (Describe in Stream, Lake, or Tide in Aerial Photographs in Other	mid.			WETLAPrimary Indica	AND HYDRO ators: nundated aturated in U	DLOGY	'INDICATO	RS
Remarks  Chiteria. hot  HYDROLOGY  Recorded Data (Describe)  Stream, Lake, or Tide  Aerial Photographs	mid.			WETL/ Primary Indica Ir S S	AND HYDRO ators: nundated aturated in U	OLOGY Jpper 1	'INDICATO	RS
Remarks  Chitchia. hot  HYDROLOGY  Recorded Data (Describe in Stream, Lake, or Tide Aerial Photographs Other	mid.			WETLA Primary Indica In S S S	AND HYDRO ators: nundated aturated in U Vater Marks	OLOGY Upper 1	'INDICATO	RS
Remarks  Chitchia. hot  HYDROLOGY  Recorded Data (Describe in Stream, Lake, or Tide in Aerial Photographs in Other)  No Recorded Data Availal	mid.	Ø	F	WETLA Primary Indica In S S Secondary In	AND HYDRO ators: nundated aturated in U Vater Marks wrift Lines ediment Dep	OLOGY Upper 1 posits terns in	/ INDICATO	
Chitchia. hot  Chitchia. hot  HYDROLOGY  Recorded Data (Describe in Stream, Lake, or Tide in Aerial Photographs in Other  No Recorded Data Availal FIELD OBSERV  Depth of Surface Water	mid.	Ø	(in)	WETL/ Primary Indica  Ir S Secondary Indica	AND HYDRO ators: nundated aturated in U vater Marks wrift Lines ediment Dep	DLOGY  Jpper 1  posits  terns in  r more	/ INDICATO 2 Inches Wetlands Required): nels in Uppe	
Remarks  Chitchia. hot  HYDROLOGY  Recorded Data (Describe in the stream, Lake, or Tide and the Aerial Photographs other)  No Recorded Data Availal FIELD OBSERV	mid.		F	WETLA Primary Indica In S Secondary Inc	AND HYDRO ators: nundated aturated in U vater Marks rift Lines ediment Dep rainage Patt dicators (2 o	DLOGY  Deposits  Define in the control of the contr	(INDICATO) I 2 Inches I Wetlands Required): nels in Uppe	

Rounded edges of slate tragments in streambed indicates flow.

SOILS			3	1 to 51 pirant sto	J17		
Map Unit Name (S	Series and Phase)	Eveligier very i					
Taxonomy (Subgr			Field Observations Confirm Mapped Type? YES NO				
		PROFIL	E DESCRIPTION				
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.		
		HYDRIC S	SOIL INDICATORS:				
☐ Histosol			☐ Concreti				
☐ Histic Epip				ganic Content in Surface			
Sulfidic O				Streaking in Sandy Soil			
	sture Regime Conditions			n Local Hydric Soils List n National Hydric Soils L			
	Low-Chroma Colo	ors	~	Explain in Remarks)	-151		
Remarks:							
	1	· 1 1					
^	10 pit was	excavated. he	re _				
	0.00						
WETLAND DET	ERMINATION						
Hydrophytic Vege	tation Present?	YES (NO)					
Wetland Hydrolog	y Present?	(YES) NO	Is this Sampling P	oint Within a Wetland?	YES (NO)		
Hydric Soils Prese	ent?	YES NO	-				
Remarks							
		, ) .1	1 1 1 1				
	Site 15	an intermit	ont Channel	ų			

Project/Site Ione Cas		Date	1/25/03				
Applicant / Owner			_	B-W-0	County	Amador	
Investigator John Hon	e . Joi	ha Mille	r		State	CA	
Do Normal Circumstances exist on	-			YES NO	Community II		
Is the site significantly disturbed (At	Transect ID /	NW Trib Dry ( 518	r - main s				
Is the area a potential Problem Area	? (If needed, e	explain on revers	٥)	YES (10)	Plot ID	518	
VEGETATION			1				
Dominant Plant Species	Stratum	Indicator	<u> </u>	Dominant Pl	ant Species	Stratum	Indicator
1 Aesculus California	<u> </u>	NOL	9		35 - A.S.		
2 Carduns pychocephalus	Н_	NOL	10				
3 Claytonia- parvillora	<u> </u>	FAC	11				
4 Bromus Carinalus	<u> </u>	NOC	12				
5 Avena Patua	H	NOL	13				
6 Anthrosume Caucalis	H	NOL	14				
7			15				
8			16				,
Percent of Dominant Species that a	re OBL, FAC	CW, or FAC (	excjn	ding FAC-)	1/6 =	17%	
Remarks Criteria	not me	1.					
HYDROLOGY	44	•					
Recorded Data (Describe i	n Remarks)		Ì	WETLA	AND HYDROL	OGY INDICATOR	RS
_	•			Primary Indica			
Stream, Lake, or Tide  Aerial Photographs	Jauge				undated		
Other					aturated in Upp Vater Marks	per 12 Inches	
_ = = = = = = = = = = = = = = = = = = =				_	rift Lines		
No Recorded Data Availab	ole				ediment Depos	eite	
FIELD OBSERV	ATIONS		_	,		ns in Wetlands	
		~	$\dashv$				
Depth of Surface Water		(ii	n)		•	nore Required): Channels in Upper	12 Inches
	_	11/1	_		/ater-Stained L		12 Midrics
Depth to Free Water in Pit		N/A (i	n)	_	ocal Soil Surve	-	
Depth to Saturated Soil		N/A (i	n)		AC-Neutral Te other (Explain i		

Rounded edgis of slate fragments in Streambed indicates flows

Map Unit Name (Se	eries and Phase):	Exchagner very i	ocky silt lian,	Drainage Class: ex	
Taxonomy (Subgro	up)	,	Field Observations	Confirm Mapped Type?	YES NO
			E DESCRIPTION		
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottie Abundance/Contrast	Texture, Concretions, Structure, etc.
		HYDRIC	SOIL INDICATORS:		
Reducing 0	or ture Regime	ors	☐ Organic☐ Listed o☐ Listed o	ganic Content in Surface Streaking in Sandy Soil n Local Hydric Soils List n National Hydric Soils I Explain in Remarks)	s
/V 8	pit was	exervatid hir	٠,	Normal contract of the second contract of the	
WETLAND DETE	ERMINATION		_		10000000000000000000000000000000000000
Hydrophytic Vegeta	ation Present?	YES (NO)			
Wetland Hydrology	Present?	(YES) NO	Is this Sampling F	Point Within a Welland?	YES (NO)
Hydric Soils Preser Remarks	nt?	YES (NO)			
5	ite is a	n indermidde	nt Channel	<b>J</b>	

Project/Site Tone Co	usino Pr	-oject	~ ~ ~ ~ ~	Date 11	125/03	
Applicant / Owner	County An	nador				
Investigator John	Howe	John 1	1:11er	State	CA	
Do Normal Circumstances exist on	the site?		(YES) NO	Community ID		
Is the site significantly disturbed (At	YES NO	Transect ID N	VTrib Dry C	- NE Swa		
Is the area a potential Problem Area	a? (If needed, a	xplain on revers	YES (NO	Plot ID	519	
VEGETATION						
Dominant Plant Species	Stratum	Indicator	Dominant P	lant Species	Stratum	Indicator
1 Avena fatua	Н	NOL	9			
2 Taens-therum Caput-medus	_ H	NOL	10	-		
3 Valpia myeteL	Н	FACUX	11			
4			12			
5			13			
6			14			
7			15			
8			16			
Percent of Dominant Species that a	re OBL, FAC	W, or FAC (	excluding FAC-)	0/3 = 0	/b	
HYDROLOGY	··· • • • • • • • • • • • • • • • • • •					
Recorded Data (Describe i  Stream, Lake, or Tide Aerial Photographs Other  No Recorded Data Availat	Gauge		Primary Indication of the Indication of Indication of the Indication of Indication of Indication of In	nundaled Saturated in Upper Vater Marks Onft Lines		१इ
				Sediment Deposits		
FIELD OBSERV	ATIONS			)rainage Patterns i	n Wetiands	
Depth of Surface Water		Ø (	17	dicators (2 or more		r 12 Inches
Depth to Free Water in Pit		N/A (	ו ( ר	Water-Stained Lear Local Soil Survey D		
Depth to Saturated Soil		N/A (i	- 1	FAC-Neutral Test Other (Explain in R	emarks)	

No indicators apparent.

Field Observations Confirm Mapped Type? YES NO	Map Unit Name (Se	ries and Phase):	Exchaguer and A	when very ricky	Drainage Class. 2/X (	essibily drained
Depth (inches)   Horizon   Matrix Color (Munsell Moist)   Abundance/Contrast   Texture, Concretions   Structure, etc.     Histosol   Concretions   High Organic Content in Surface Layer in Sandy Soils   Suffice Odor   Organic Streaking in Sandy Soils   Listed on National Hydric Soils List   Reducing Conditions   Listed on National Hydric Soils List   Other (Explain in Remarks)     Remarks:   No pit was Pacauta file.     WetLand Determination   Yes (No)   Is this Sampling Point Within a Wetland? Yes (No)     Hydrophytic Vegetation Present?   Yes (No)   Is this Sampling Point Within a Wetland? Yes (No)   Hydric Soils Present?   Yes (No)   Is this Sampling Point Within a Wetland? Yes (No)   Hydric Soils Present?   Yes (No)   Is this Sampling Point Within a Wetland? Yes (No)   Is this Sampling Point Within a Wetland? Yes (No)   Is this Sampling Point Within a Wetland? Yes (No)   Is this Soils Present?   Yes (No)   Is this Sampling Point Within a Wetland? Yes (No)   Is this Soils Present?   Yes (No)   Is this Sampling Point Within a Wetland? Yes (No)   Is this Soils Present?   Yes (No)   Is this Sampling Point Within a Wetland? Yes (No)   Is this Sampling Point Within a Wetland? Yes (No)   Is this Sampling Point Within a Wetland? Yes (No)   Is this Sampling Point Within a Wetland? Yes (No)   Is this Sampling Point Within a Wetland? Yes (No)   Is this Sampling Point Within a Wetland? Yes (No)   Is this Sampling Point Within a Wetland? Yes (No)   Is this Sampling Point Within a Wetland? Yes (No)   Is this Sampling Point Within a Wetland? Yes (No)   Is this Sampling Point Within a Wetland? Yes (No)   Is this Sampling Point Within a Wetland? Yes (No)   Is this Sampling Point Within a Wetland? Yes (No)   Is this Sampling Point Within a Wetland? Yes (No)   Is this Sampling Point Within a Wetland? Yes (No)   Is this Sampling Point Within a Wetland? Yes (No)   Is this Sampling Point Within a Wetland? Yes (No)   Is this Sampling Point Within a Wetland? Yes (No)   Is this Sampling Point Within a Wetland? Yes (No)   Is this S	Taxonomy (Subgrou	lb)		Field Observations	Confirm Mapped Type?	YES NO
HyDRIC SOIL INDICATORS:   HyDRIC SOIL INDICATORS:   Concretions   High Organic Content in Surface Layer in Sandy Soils   Sulfidic Odor   Organic Streaking in Sandy Soils   Listed on Local Hydric Soils List   Calcerd on National Hydric Soils List   City of Cherrence   Other (Explain in Remarks)			PROFIL	E DESCRIPTION		
Histosol		Horizon				Texture, Concretions Structure, etc.
Histosol						
Histosol						
Histosol						
Histosol						
Histosol						
High Organic Content in Surface Layer in Sandy Soils Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gieyed or Low-Chroma Colors  Remarks:    WETLAND DETERMINATION   Hydrophytic Vegetation Present?   YES NO     Wetland Hydrology Present?   YES NO     High Organic Content in Surface Layer in Sandy Soils     Organic Streaking in Sandy Soils     Organic Streaking in Sandy Soils     Listed on Local Hydric Soils List     Listed on National Hydric Soils List     Other (Explain in Remarks)    WETLAND DETERMINATION     Hydrophytic Vegetation Present?   YES NO     Hydric Soils Present?   YES NO     Hydric Soils Present?   YES NO     Remarks   YES NO     High Organic Content in Surface Layer in Sandy Soils     Organic Streaking in Sandy Soils     Organic Streaking in Sandy Soils     Content in Surface Layer in Sandy Soils     Organic Streaking in Sandy Soils     Other (Explain in Remarks)			HYDRIC	SOIL INDICATORS:		
Hydrophytic Vegetation Present?  Wetland Hydrology Present?  Hydric Soils Present?  YES NO  Is this Sampling Point Within a Wetland?  YES NO  Remarks	Sulfidic Odd Aquic Moist Reducing C Gleyed or L Remarks:	or ure Regime onditions ow-Chroma Colo		Organic Listed o Listed o Other (E	Streaking in Sandy Soil n Local Hydric Soils List n National Hydric Soils I	s
Wetland Hydrology Present?  YES NO Is this Sampling Point Within a Wetland?  YES NO Remarks	-					
Remarks	Wetland Hydrology	Present?	YES NO	Is this Sampling F	Point Within a Wetland?	YES NO
No indicators apparent-			1 -5		The second secon	
		No ind	icators app	parent-		

Project/Site Tone Casi	In Pina i		Date	11/	25/03		
Applicant / Owner	ne irej	(()		County	Ah	udo:-	
Investigator John Ho	i.a J	ohn Mi	llèr	State		CA	
Do Normal Circumstances exist on	Communi		~ <u>~</u> [				
Is the site significantly disturbed (At			IT. I Du	PL ENE			
Is the area a potential Problem Area			YES NO	Plot ID	1() (0	5 20	, C+- ENE 6
		-	,		-	2 20	
EGETATION	,						
Dominant Plant Species	Stratum	Indicator	Dominant P	lant Specie	S	Stratum	Indicator
1 Pinus sabiniana		NOL	9				
2 Carduni pyrnorephalus	H	NOL	10				
3 Taeniatherum Caput-medusar	H	NOL.	11				
4 Cynosurus echinatus	H	NOL	12				
5 Vulpia myuros	Н	FACUY	( 13				
6			14				
7		1777,000	15		- "		
		****					
3		}	16				1
8 Percent of Dominant Species that a Remarks  CHATIA No				0/5	=0	76	
Percent of Dominant Species that a				0/5	=0	76	
Percent of Dominant Species that a Remarks CHAthia Mo				0/5	=0	76	
Percent of Dominant Species that a Remarks  CHAPIA No	t met.		(excluding FAC-)			Y INDICATO	RS
Percent of Dominant Species that a Remarks  CHAPIA No  YDROLOGY  Recorded Data (Describe in	n Remarks)		(excluding FAC-)  WETL  Primary Indica	AND HYDR			RS
Percent of Dominant Species that a Remarks  Chilip Mo  IYDROLOGY  Recorded Data (Describe in Stream, Lake, or Tide)	n Remarks)		(excluding FAC-)  WETL  Primary Indica	AND HYDR ators;	COLOGY	/ INDICATO	RS
Percent of Dominant Species that a Remarks  CHAPIA No  IYDROLOGY  Recorded Data (Describe in  Stream, Lake, or Tide in  Aerial Photographs	n Remarks)		WETL Primary Indica	AND HYDR ators:	OLOGY Upper 1	/ INDICATO	RS
Percent of Dominant Species that a Remarks  Chilip Mo  IYDROLOGY  Recorded Data (Describe in Stream, Lake, or Tide)	n Remarks)		WETL Primary Indica	AND HYDR ators; nundated saturated in Vater Marks	OLOGY Upper 1	/ INDICATO	RS
Percent of Dominant Species that a Remarks  CHATIA No  IYDROLOGY  Recorded Data (Describe in  Stream, Lake, or Tide in  Aerial Photographs	n Remarks)		WETL Primary Indication In S	AND HYDR ators: nundated saturated in Vater Marks	COLOGY Upper 1	/ INDICATO	RS
Percent of Dominant Species that a Remarks  Chithia ho  IYDROLOGY  Recorded Data (Describe in  Stream, Lake, or Tide of Aerial Photographs Other	n Remarks) Gauge		WETL Primary Indica	AND HYDR ators; nundated saturated in Vater Marks	OLOGY Upper 1	Y INDICATO	RS
Percent of Dominant Species that a Remarks  Chilifia ho  IYDROLOGY  Recorded Data (Describe in Stream, Lake, or Tide in Aerial Photographs Other  No Recorded Data Availab	n Remarks) Gauge	~	WETL Primary Indica	AND HYDR ators: nundated in Vater Marks Orift Lines Sediment De Orainage Pa	Upper 1	/ INDICATO	RS
Percent of Dominant Species that a Remarks  CHATIA Mo  IYDROLOGY  Recorded Data (Describe in Burnal Photographs Aerial Photographs Other  No Recorded Data Availabe	n Remarks) Gauge	~	WETL Primary Indicates of the secondary In Control of the	AND HYDR ators: nundated in Vater Marks or Ift Lines dediment De Orainage Padicators (2 control of the Control	Upper 1 Seposits tterns in or more	Y INDICATO  12 Inches  Netlands  Required):	
Percent of Dominant Species that a Remarks  CHATIA Mo  IYDROLOGY  Recorded Data (Describe in Burnal Photographs Aerial Photographs Other  No Recorded Data Availabe	n Remarks) Gauge	Ø	WETL Primary Indicate  In Secondary In Control  Secondary In Control  In Secondary In Control  I	AND HYDR ators; nundated in Vater Marks orift Lines Sediment De Orainage Pardicators (2 of the control of the c	Upper 1 s eposits tterns in or more of Chan ed Leav	Y INDICATO  12 Inches  Required): unels in Upperes	

Incision and sorting of finer suggests ephemeral flow.

Map Unit Name (Series and Phase): Exchance and Auturn (prophotory) Drainage Class: exception of Annal Taxonomy (Subgroup)  PROFILE DESCRIPTION  Depth (Inches)  Horizon (Munsell Moist) (Munsell Moist) (Munsell Moist)  Hydric Soil Indicators (Munsell Moist) (Munsell Moist)  Hydric Soil Indicators (Munsell Moist)  Hydric Soil Present?	SOILS				loams, 31 to 51	pinant styris 520		
PROFILE DESCRIPTION   Mottle Colors   Mottle   Texture, Concretions, Structure, etc.	Map Unit Name (Se	eries and Phase):	Exchegaer and A	ulum very rocks	Drainage Class: 2x	essively drained		
Depth (inches) Harizon (Munsell Moist) Moltle Colors (Munsell Moist) Abundance/Contrast Texture, Concretions, Structure, etc.    HyDRIC SOIL INDICATORS:   Concretions   C								
Horizon (Munsell Moist) (Munsell Moist)   Abundance/Contrast   Structure, etc.			PROFIL	E DESCRIPTION				
HYDRIC SOIL INDICATORS:    Histosol		Horizon						
Histosol								
Histosol								
Histosol		-		8 -				
Histosol								
Histosol								
Histosol								
Histosol								
Histosol								
Histosol	1		HYDRIC S	SOIL INDICATORS:	1	l		
Histic Epipedon	☐ Histosol			☐ Concret	ions			
Sulfidic Odor		edon				e Laver in Sandy Soils		
Aquic Moisture Regime	_							
Gleyed or Low-Chroma Colors    Other (Explain in Remarks)   Other (Explain	Aquic Mois	ture Regime						
NETLAND DETERMINATION  Hydrophytic Vegetation Present?  Wetland Hydrology Present?  Hydric Soils Present?  YES NO  Is this Sampling Point Within a Wetland? YES NO  Remarks	Reducing C	Conditions		☐ Listed o	n National Hydric Soils I	List		
WETLAND DETERMINATION  Hydrophytic Vegetation Present?  Wetland Hydrology Present?  Hydric Soils Present?  YES NO  Is this Sampling Point Within a Wetland? YES NO  Remarks	☐ Gleyed or L	ow-Chroma Cold	ors	Olher (E	explain in Remarks)			
WETLAND DETERMINATION  Hydrophytic Vegetation Present?  Wetland Hydrology Present?  Hydric Soils Present?  YES NO  Is this Sampling Point Within a Wetland? YES NO  Remarks								
WETLAND DETERMINATION  Hydrophytic Vegetation Present?  Wetland Hydrology Present?  Hydric Soils Present?  YES NO  Is this Sampling Point Within a Wetland? YES NO  Remarks	Ma	of war P	Kinnyld here					
Hydrophytic Vegetation Present?  Wetland Hydrology Present?  Hydric Soils Present?  YES NO Is this Sampling Point Within a Wetland?  YES NO Remarks	140	PII PING C	77 ( () () () () ()	•				
Hydrophytic Vegetation Present?  Wetland Hydrology Present?  Hydric Soils Present?  YES NO Is this Sampling Point Within a Wetland?  YES NO Remarks								
Hydrophytic Vegetation Present?  Wetland Hydrology Present?  Hydric Soils Present?  YES NO Is this Sampling Point Within a Wetland?  YES NO Remarks								
Hydrophytic Vegetation Present?  Wetland Hydrology Present?  Hydric Soils Present?  YES NO Is this Sampling Point Within a Wetland?  YES NO Remarks								
Wetland Hydrology Present?  Hydric Soils Present?  YES NO  Is this Sampling Point Within a Wetland?  YES NO  Remarks	WETLAND DETE	RMINATION		Land and the second	· ·			
Hydric Soils Present?  YES NO  Remarks	Hydrophytic Vegeta	ation Present?						
Remarks	Wetland Hydrology	Present?	(YES) NO	Is this Sampling F	oint Within a Wetland?	YES (NO)		
		nt?	YES (NO)					
Site is not the upper end of an intermittant alrainage at or hear the zone of ephemeral flix.								
Or hear the Zone of epheminal fliv.		<u> </u>	1 11	a ŝ	11. 11.1	1		
Or hear the Zone of ephemeral fliv.		Dite 15 m	d the upper	end of an	indermittent	Ml-ainage at		
Or hear the cone of Expremeral 1700.		11 24	of echanic	1 - 1/1:1		v		
	Or hear	The cone	or Epriemera	1/610				

Project/Site	sino Pro	jeit			Date 11/25/03			
Applicant / Owner					County	۸	nador	
Investigator John Ho	owe, Ju	ohn Mill	fr		State		CA	
Do Normal Circumstances exist on	the site?			YES NO	Communit			
Is the site significantly disturbed (Aty	ypical Situation	on)?		YES NO	Transect 10	D NW	Dry Cr. T	til NE br
Is the area a potential Problem Area	? (If needed, e	xplain on revers	e)	YES (NO	Plot ID		21	
EGETATION								
Dominant Plant Species	Stratum	Indicator		Dominant F	lant Species		Stratum	Indicator
1 Aesculus Californica	5	NOL	9	territoria de la compania del compania del compania de la compania del compania del compania de la compania del compania d	100 to			
Toxkodendran diversiblem	Ś	NOL	10			-		
3 Cynosurus echinatus	H	NOL	11		· · · · · · · · · · · · · · · · · · ·			
4 Trifolium angustifolium	Н	NOL	12		_			
5 Avena fatur	11	NOL	13					
6		1 1 1 0	14					
7	-		15					
8			16					
					0/5	= 0	0/	
			excludi -	ing FAC-)	0/3	<u> </u>	(8	
Remarks Criteria no			excludi	ing FAC-)	0/3		(8	
Remarks Criteria no			excludi	ing FAC-)	0/3	- 0	(8	
Remarks Criteria no	ot met.			WETL	AND HYDRO			२८
Chilehia no  YDROLOGY  Recorded Data (Describe in	n Remarks)			WETL Primary Indic	ators;			RS
Criteria no	n Remarks)			WETL Primary Indic	ators; nundated	DLOGY	INDICATOR	RS
Chilehia no  YDROLOGY  Recorded Data (Describe in  Stream, Lake, or Tide (	n Remarks)			WETL Primary Indic	ators; nundated saturated in L	DLOGY	INDICATOR	२८
Remarks  Chilehia he  IYDROLOGY  Recorded Data (Describe in  Stream, Lake, or Tide of Aerial Photographs Other	n Remarks)			WETL Primary Indic	ators; nundated	DLOGY	INDICATOR	२ड
Remarks  Chilehia ha  YDROLOGY  Recorded Data (Describe in  Stream, Lake, or Tide ( Aerial Photographs	n Remarks)			WETL Primary Indic	ators; nundated aturated in L Vater Marks Drift Lines	OLOGY Upper 1	INDICATOR	₹ड
Remarks  Chilehia no  IYDROLOGY  Recorded Data (Describe in  Stream, Lake, or Tide of Aerial Photographs Other	n Remarks) Gauge			WETL Primary Indic	ators; nundated aturated in U Vater Marks	DLOGY Upper 1	INDICATOR 2 Inches	₹ड
Remarks  Crifferia no  HYDROLOGY  Recorded Data (Describe in  Stream, Lake, or Tide of Aerial Photographs Other  No Recorded Data Availab	n Remarks) Gauge	~	P	WETL Primary Indic Secondary In	ators: nundated aturated in L Vater Marks Orift Lines Sediment Dep Orainage Patt	DLOGY Deposits terns in	INDICATOR 2 Inches Wetlands Required):	
Remarks  Crifferia no  IYDROLOGY  Recorded Data (Describe in  Stream, Lake, or Tide of Aerial Photographs Other  No Recorded Data Availab  FIELD OBSERV,	n Remarks) Gauge	Ø (Ir	P	WETL Primary Indic S S Secondary In	ators; nundated saturated in L Vater Marks Orift Lines Sediment Dep Orainage Patt dicators (2 o	DLOGY Deposits terns in r more	INDICATOR 2 Inches Wetlands Required): nels in Uppe	
Remarks  Crifferia no  Crifferia no  IYDROLOGY  Recorded Data (Describe in  Stream, Lake, or Tide of Aerial Photographs Other  No Recorded Data Availaby  FIELD OBSERV  Depth of Surface Water	n Remarks) Gauge	Ø (Ir	P	WETL Primary Indic Secondary In	ators; nundated laturated in L Vater Marks Orifi Lines Sediment Dep Orainage Patt dicators (2 o Oxidized Roo Vater-Staine	DLOGY Dosits terns in r more	INDICATOR  2 Inches  Wetlands  Required): nels in Uppe	
Recorded Data (Describe in  Stream, Lake, or Tide of Aerial Photographs Other  No Recorded Data Availab  FIELD OBSERV,	n Remarks) Gauge	Ø (Ir	n) S	WETL Primary Indic S V S Secondary In C C C C C C C C C C C C C C C C C C C	ators; nundated saturated in L Vater Marks Orift Lines Sediment Dep Orainage Patt dicators (2 of Oxidized Roof Vater-Stainer	DLOGY Deposits terns in r more of Chanr d Leave	INDICATOR  2 Inches  Wetlands  Required): nels in Uppe	
Remarks  Criferia no  AYDROLOGY  Recorded Data (Describe in  Stream, Lake, or Tide of Aerial Photographs Other  No Recorded Data Availabe  FIELD OBSERV  Depth of Surface Water	n Remarks) Sauge	Ø (11 1/A (11	n) S	WETL Primary Indic Secondary In C C C C C C C C C C C C C C C C C C C	ators; nundated laturated in L Vater Marks Orifi Lines Sediment Dep Orainage Patt dicators (2 o Oxidized Roo Vater-Staine	DLOGY Doosits terns in r more of Chanre d Leave rvey Da Test	INDICATOR  2 Inches  Wetlands  Required): hels in Uppeles ta	

Map Unit Name (Se	eries and Phase): E	Yelonia hasanind		Drainage Class: Exc.	
Taxonomy (Subgro		Vella met both sees		Confirm Mapped Type?	
	-	PROFIL	E DESCRIPTION		
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions Structure, etc.
Section 1		-			
			SOIL INDICATORS:		
Reducing (  Gleyed or I  Remarks:	ture Regime Conditions Low-Chroma Colors  Pit Was ex		☐ Listed o	n Local Hydric Soils List n National Hydric Soils L Explain in Remarks)	ist
VETLAND DET	ERMINATION	-	THE STATE OF THE S		
Hydrophytic Vegeta	ation Present?	YES NO			
Wetland Hydrology	Present?	(YES) NO	Is this Sampling P	oint Within a Wetland?	YES (NO)
- Tydrology	nt?	YES (NO)			
Hydric Soils Preser Remarks					

Project/Site Ione. Ca	Date i	125/03				
Applicant / Owner		/ ( )		County A	mador	
Investigator John Hot	uc. Jol	h Mille	r	State	CA	
Do Normal Circumstances exist or			(YES) NO	Community ID		
Is the site significantly disturbed (A	typical Situati	YES (NO)	Transect ID /	entral Stoc	K pond	
Is the area a potential Problem Are	a? (If needed, e	se) YES NO	Plot ID	CHHAI StOC 522	- June	
					-	
EGETATION	1	1			7	
Dominant Plant Species	Stratum	Indicator		lant Species	Stratum	Indicator
1 Juneus balticus	<u> </u>	OBL.	9			200
2		_	10		}	
3			11			
4			12			
5			13			
6			14			
7			15		-	
8 Percent of Dominant Species that			16	1/1 =	100%	-
					THE VIEW	
HYDROLOGY		Carry Construction of the				
Recorded Date (Deparths	in Domarka)		WETL	AND 11\/DDOLOG		
Recorded Data (Describe				AND HYDROLOG	Y INDICATOR	RS
Stream, Lake, or Tide			Primary Indic		SY INDICATOR	RS
Acriel Obelegrenbe	Gauge		<u> </u>	ators: nundated		RS
☐ Aerial Photographs ☐ Other	e Gauge			ators: nundated saturated in Upper		RS
Aerial Photographs  Other	e Gauge			ators: nundated saturated in Upper Vater Marks		RS
_	·			ators: nundated saturated in Upper Vater Marks Orift Lines	12 Inches	RS
. Other	able			ators: nundated saturated in Upper Vater Marks	12 Inches	RS
. Other	able	Ø (	Secondary In	ators: nundated saturated in Upper Vater Marks Orift Lines Sediment Deposits Orainage Patterns dicators (2 or mor	12 Inches in Wetlands e Required):	
Other  No Recorded Data Availa	able		n) Secondary In	ators: nundated saturated in Upper Vater Marks Orift Lines Sediment Deposits Orainage Patterns	12 Inches in Wetlands e Required): nnels in Upper	

Stock pond excavated to slate bedrock which traps water; tack is a

SOILS			3	1 perant slipis.	S22
	eries and Phase);	Exchrance and Aud	THE RESERVE THE PARTY OF THE PA	Drainage Class: 化(	essively depresal
Taxonomy (Subgro				Confirm Mapped Type	
		PROFILI	E DESCRIPTION		
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-4	B	5Y4/Z	N/A	hone	clay loan
					9
AVENT I					
		HYDRIC S	OIL INDICATORS:		
☐ Histosol			☐ Concret	ions	
☐ Histic Epip	edon			ganic Content in Surfac	e Layer in Sandy Soils
Sulfidic Od			_ `	: Streaking in Sandy Soi	• /
Aquic Mois	sture Regime			n Local Hydric Soils Lis	
☐ Reducing (	Conditions		Listed o	n National Hydric Soils	List
☐ Gleyed or	Low-Chroma Colo	rs	Other (	Explain in Remarks)	
Remarks:	· · · · · · · · · · · · · · · · · · ·				
Sla	ate bedrack	near or at	surface		
	the building	,,(0,1	3		
Cal	Heria not	ba of			
	1107760 7701	//// ×			
WETLAND DET	ERMINATION	······································			
Hydrophylic Veget	ation Present?	(YÉS) NO			
Wetland Hydrology	y Present?	(YES) NO	Is this Sampling F	Point Within a Wetland?	YES (NO)
Hydric Soils Prese	ent?	YES NO	]		<u> </u>
Remarks			-		
	<i>→</i> 1 ′		1 1	, ,	1
1	DHe 15	a man-mi	ade Stock	watering po	nd .
				0	

	Sino Pri	Project/Site I one Casino Project				
Applicant / Owner	County /	1/25/03 Imador				
Investigator John Hou	State	CA	(4			
Do Normal Circumstances exist or	Community ID	)				
Is the site significantly disturbed (A	typical Situati	on)?	YES NO	Transect ID	Ditch at det	ention pond
Is the area a potential Problem Are	ea? (If needed, e	xplain on reverse	YES NO	Plot ID	523	
/FOFTATION						
VEGETATION  Dominant Plant Species	Stratum	Indicator	Deminant F	Plant Species	Chrotum	Indicator
Α	C		9	Tant Species	Stratum	mulcator
TOPOTOS IFEMONTI	5	FACW	10			
10,000 000000	11	FACW*	11			
3 Typha latifolia	H	UBL.	12			
5			13			
6	<del>                                     </del>		14			
7			15			_
8			16			
	ara OBL EAC	(A) == EA C /-		3/3 =	100%	
Percent of Dominant Species that Remarks  Critchia h		vv, or FAC (e	Action of the state of the stat	<u> </u>	70018	
Remarks		vv, or FAC (e	Action of the state of the stat	<u> </u>	70018	
Remarks		vv, or FAC (e	Action of the second	<u> </u>	70018	
Remarks Crítería n	net.	vv, or FAC (e			DGY INDICATOR	२इ
Remarks  Chilehia h  HYDROLOGY  Recorded Data (Describe	net.	vv, or FAC (e	WETL Primary Indica	AND HYDROLO		२इ
HYDROLOGY  Recorded Data (Describe  Stream, Lake, or Tide	net.	W, or FAC (e	WETL Primary Indic	AND HYDROLO ators:	OGY INDICATOR	RS
Remarks  Chilehia h  HYDROLOGY  Recorded Data (Describe	net.	W, or FAC (e	WETL Primary Indicates Ind	AND HYDROLO ators: nundated Saturated in Upp	OGY INDICATOR	२इ
HYDROLOGY  Recorded Data (Describe  Stream, Lake, or Tide  Aerial Photographs	net.	W, or FAC (e	WETL Primary Indicate In Internation Internation In Internation Internat	AND HYDROLO alors: nundated saturated in Upp Vater Marks	OGY INDICATOR	RS
HYDROLOGY  Recorded Data (Describe  Stream, Lake, or Tide  Aerial Photographs	in Remarks)	vv, or FAC (e	WETL Primary Indicates In In Inc. In In In Inc. In In In Inc.	AND HYDROLO ators: nundated caturated in Upp Vater Marks Drift Lines	OGY INDICATOR	₹\$
HYDROLOGY  Recorded Data (Describe  Stream, Lake, or Tide Aerial Photographs Other	ne√ in Remarks) Gauge	vv, or FAC (e	WETL Primary Indicates In Internation Internation In Internation Interna	AND HYDROLO alors: nundated saturated in Upp Vater Marks	DGY INDICATOR	२इ
HYDROLOGY  Recorded Data (Describe Stream, Lake, or Tide Aerial Photographs Other  No Recorded Data Availa	ne√ in Remarks) Gauge	(In	WETL Primary Indicates of the secondary In	AND HYDROLO alors: nundated caturated in Upp Vater Marks Orift Lines Sediment Depositional Pattern dicators (2 or me	DGY INDICATOR  oer 12 Inches  its  as in Wetlands  ore Required):	
HYDROLOGY  Recorded Data (Describe Stream, Lake, or Tide Aerial Photographs Other  No Recorded Data Availa	ne√ in Remarks) Gauge	~	WETL Primary Indicates of the secondary In	AND HYDROLO alors: nundated caturated in Upp Vater Marks Orift Lines Sediment Depositional Pattern dicators (2 or me	ore Required): hannels in Uppe	

Criteria Mart.

$\subset$	.7	7
$\mathcal{O}$	4	S

Map Unit Name (S	eries and Phase):	Exchegirer and Aub	um lorus, 3to	Drainage Class: 0x(	carriely digited
Taxonomy (Subgro			Field Observations	Confirm Mapped Type?	
		PROFIL	E DESCRIPTION		
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-16	A	5 Y 4/1	N/A	none	Sitty sand with
					foreign plastic
					delaris
					2 300125 75-1
		HYDRIC S	SOIL INDICATORS:		
☐ Histosol			☐ Concreti		
Histic Epip				ganic Content in Surface	• ,
Sulfidic Od				Streaking in Sandy Soil	
	sture Regime			n Local Hydric Soils List	
Reducing (	Conditions Low-Chroma Cold	).cc		n National Hydric Soils t Explain in Remarks)	_IST
Remarks:				- Committee (Committee)	
CH	ería met.				
WETLAND DET	ERMINATION				W (ALL )
Hydrophytic Veget	ation Present?	(YES) NO			
Wetland Hydrolog	y Present?	(YES) NO	Is this Sampling P	oint Within a Wetland?	(YES) NO
Hydric Soils Prese	ent?	(YES) NO			
Remarks					
		Criteria	a met-		
1					
1					

Project/Site Ione Cas	Date ///	25/03				
Applicant / Owner	County Amador					
Investigator John Holwin		A				
Do Normal Circumstances exist on	Community ID					
	Do Normal Circumstances exist on the site?  Is the site significantly disturbed (Atypical Situation)?  YES NO					f of motel
	Is the area a potential Problem Area? (If needed, explain on reverse)  YES (NO)					- 1 sweet 1
				Plot ID	524	
VEGETATION						- Marie
Dominant Plant Species	Stratum	Indicator	Dominant P	lant Species	Stratum	Indicator
1 Sally lasiolepic	S	FACW	9			
2 Typha latifolia	H	OBL.	10			
3 Epilehium ciliatum	H	FACIN	11			A
4 Cyperus Cragnistis	1-1	FACW	12			
5 Cynodon ductylon	1	FAC	13			
6			14	the shirt lets		
7			15		1	
8			16			
Percent of Dominant Species that a	re OBL, FAC	W, or FAC (	excluding FAC-)	5/5 =10	0 %	
Criteria 1	ngets	· (W) to the control of				
HYDROLOGY						
Recorded Data (Describe in Stream, Lake, or Tide Aerial Photographs	•		Primary Indica	AND HYDROLOG ators: nundated Saturated in Upper		२ड
Other				Vater Marks		
No Decorded Date Assistant		Orift Lines				
				Sediment Deposits		
FIELD OBSERV	ATIONS			Orainage Patterns	in Wetlands	
Depth of Surface Water		Ø (ii	1) ]	dicators (2 or mor Dxidized Root Cha		r 12 Inches
Depth to Free Water in Pit		4 (i	\ <u>\</u>	Water-Stained Lea Local Soil Survey [		
Depth to Saturated Soil		Ø (i		FAC-Neutral Test Other (Explain in F	Regranks)	

Critoria met.

	oup)	, , , , ,		Drainage Class: θχ Confirm Mapped Type	
		PROFIL	LE DESCRIPTION		
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contras	Texture, Concretions Structure, etc.
0-8	A	2.5 Y 4/3	N/A	hone.	silty sand
		mixed Lith			
		5Y 4/1			silty clay
•					, ,
		3025			
		HYDRIC	SOIL INDICATORS:		
	isture Regime Conditions		Listed o	Streaking in Sandy So n Local Hydric Soils Li n National Hydric Soils	st
Remarks:		k near bas		Explain in Remarks)	
Remarks:  Sla-  VETLAND DE1  Hydrophytic Vege	FERMINATION etation Present?	k near bas	c of ditch.	<u> </u>	? (YES) NO
Remarks: S/a-	FERMINATION etation Present?	k near bas	c of ditch.		? (YES) NO

#### ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Project/Site Int	Date	1/16/04				
Applicant / Owner	County	Amedor				
Investigator Paul Gara	State	CA				
Do Normal Circumstances exist on	Community ID					
Is the site significantly disturbed (A	typical Situati	on)?	YES (10)	Transect ID	Stock park h	end Dry Ci-T
Is the area a potential Problem Area? (If needed, explain on reverse) YES (NO)					S25	1
		····				
EGETATION		1	1	-	I	1
Dominant Plant Species	Stratum	Indicator	1	lant Species	Stratum	Indicator
1 Typha latitulia	H	OBL	9			
2 Juneus ballions	H	OEL	10			
3 Cyptrus chagrostil	H	FACW	11			
4			12			
5			13			
6	or the second		14			
7			15			
8			16			
		VV, OF FAC (6	excluding FAC-)	3/3 =	100%	
Remarks		W, OF PAC (6	excluding FAC-)	5/3	70078	
		W, OF FAC (6	excluding FAC-)	5/3	70078	
Remarks Chileria h	net_	W, OF FAC (6		,	LOGY INDICATO	RS
Remarks  Chileria M  SYDROLOGY  Recorded Data (Describe)	n∈	W, OF FAC (6		AND HYDROL		RS
Remarks  Chileria M  HYDROLOGY  Recorded Data (Describe)  Stream, Lake, or Tide	n∈	W, OF FAC (6	WETL Primary Indica	AND HYDROL		RS
Remarks  Chileria M  SYDROLOGY  Recorded Data (Describe)  Stream, Lake, or Tide  Aerial Photographs	n∈	W, OF FAC (6	WETL Primary Indica	AND HYDROL ators: nundated aturated in Up		RS
Remarks  Chileria M  HYDROLOGY  Recorded Data (Describe)  Stream, Lake, or Tide	n∈	W, OF FAC (6	WETL Primary Indica	AND HYDROL ators: nundated aturated in Up Vater Marks	LOGY INDICATO	RS
Remarks  Chileria M  HYDROLOGY  Recorded Data (Describe in Stream, Lake, or Tide Aerial Photographs Other	nê di in Remarks) Gauge	W, OF FAC (6	WETL Primary Indica	AND HYDROLators: nundated aturated in Up Vater Marks	LOGY INDICATO	RS
Remarks  CFAFIA M  HYDROLOGY  Recorded Data (Describe in Stream, Lake, or Tide in Aerial Photographs in Other  No Recorded Data Availab	in Remarks) Gauge	W, OF FAC (6	WETL Primary Indica Ir	AND HYDROL ators: nundated aturated in Up Vater Marks wrift Lines ediment Depo	LOGY INDICATO oper 12 Inches	RS
Remarks  Chileria M  HYDROLOGY  Recorded Data (Describe in Stream, Lake, or Tide Aerial Photographs Other	in Remarks) Gauge	W, OF FAC (6	WETL Primary Indica Ir	AND HYDROL ators: nundated aturated in Up Vater Marks wrift Lines ediment Depo	LOGY INDICATO	RS
Remarks  Chileria M  HYDROLOGY  Recorded Data (Describe in Stream, Lake, or Tide in Aerial Photographs in Other  No Recorded Data Availal	in Remarks) Gauge	J (ir	WETL Primary Indica Ir S S Secondary Indica	AND HYDROL ators: nundated aturated in Up Vater Marks wift Lines ediment Deportainage Patte dicators (2 or incompared)	LOGY INDICATO oper 12 Inches	
Remarks  Chileria M  HYDROLOGY  Recorded Data (Describe in Stream, Lake, or Tide in Aerial Photographs Other  No Recorded Data Availal FIELD OBSERV	in Remarks) Gauge		WETL Primary Indica Ir Secondary Indica	AND HYDROL ators: nundated aturated in Up Vater Marks wift Lines ediment Deportainage Patte dicators (2 or incompared)	DOGY INDICATO  Deper 12 Inches  Desits  This in Wetlands  The more Required):  Channels in Upper  Leaves	

Cafferia mit.

SOILS			3403	31 penent slope	s . S2:
Map Unit Name (Se	eries and Phase).	Exchequer a	nd Auburn Icam	Drainage Class: (4)	crossively drained
Taxonomy (Subgro		0		Confirm Mapped Type	
		PROFIL	E DESCRIPTION		
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions Structure, etc.
0-6	B	2.5 Y 4/1	N/A	hone	rocky clay
6-8	C	546/2	N/A	Mone	tocky clay
		HYDRIC	SOIL INDICATORS:		
Reducing C Gleyed or L Remarks:	or ture Regime	near or at	Organic Listed o Listed o Other (E		st
WETLAND DET	ERMINATION				
Hydrophytic Vegeta Wetland Hydrology Hydric Soils Presen	Present?	YES NO YES NO	Is this Sampling P	ont Within a Wetland?	YES NO
		i. Si.	Acis a 1	man-made 57	tock watering
j	oond.				

#### ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Project/Site Inni Car	D.	: . 1.		Date 1/	11 /02	
Project/Site Tone Cas	County Amadon					
<u> </u>	1.111	_				
Investigator Paul Gal  Do Normal Circumstances exist on	State CA					
Is the site significantly disturbed (At		1.1 D. 1	1 +1			
Is the area a potential Problem Area	-		YES (NO)	Transect ID Him	26	VIEK IFIL
is the area a potential Problem Area	ir (ii needed, e	xpiain on reverse	) TES NO	FIOLID 5	26	
VEGETATION						
Dominant Plant Species	Stratum	Indicator	Dominant F	lant Species	Stratum	Indicator
1 Claytonia pertiliata	H	FAC	9			
	H	NOL	10			
2 Cynesurus echinatus 3 Stillaria media	H	FACU	11			
4			12			
5			13			
6			14			,
7			15			
8			16			
Percent of Dominant Species that a	re OBL, FAC	W, or FAC (6	xcluding FAC-)	1/3 = 33	3 1/4	
Criteria ho	1 11767 4				,	e
HYDROLOGY			U			
			WETL	AND HYDROLOG	Y INDICATOR	35
Recorded Data (Describe i			Primary Indic	ators:		ì
Stream, Lake, or Tide	Gauge		[ Inundated			
Aerial Photographs				Saturated in Upper	12 Inches	
U Other				Vater Marks		
No Recorded Data Availat	vie			Orift Lines		
				Sediment Deposits Orainage Patterns in	· Motlanda	
FIELD OBSERV	FIELD OBSERVATIONS				i va etiarios	
Depth of Surface Water	L	(ir	7	dicators (2 or more Oxidized Root Char		r 12 Inches
Depth to Free Water in Pit	Ø	, (ìı	1)	Valer-Stained Leav Local Soil Survey D		
Depth to Saturated Soil	Ø	(i)	-\\	FAC-Neutral Test Other (Explain in Re	emarks)	

Criteria met.

SOILS			3 16 31	priant sliper -	526		
Map Unit Name (Se	eries and Phase): 🧲	x chequer and	Aubum luems,	Drainage Class: Px	essialy durined		
Taxonomy (Subgroup)			Field Observations Confirm Mapped Type? YES NO				
		PROFIL	É DESCRIPTION				
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.		
0-16	A	2.54 3/Z	N/A	hone	rocky clay		
		100					
		HYDRIC S	SOIL INDICATORS:	<u> </u>	<u> </u>		
Reducing C Gleyed or L Remarks:	or ture Regime	c(1 -	Organic Listed o	tions  ganic Content in Surface  Streaking in Sandy Soil  on Local Hydric Soils List  on National Hydric Soils t  Explain in Remarks)	s		
WETLAND DETE	ERMINATION						
Hydrophytic Vegeta		YES (NO)					
Wetland Hydrology		MES NO	Is this Sampling F	Point Within a Wetland?	YES NO		
Hydric Soils Preser		YES (NO)					
Remarks	-		1. U.S. a.t	the headwater			