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:

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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

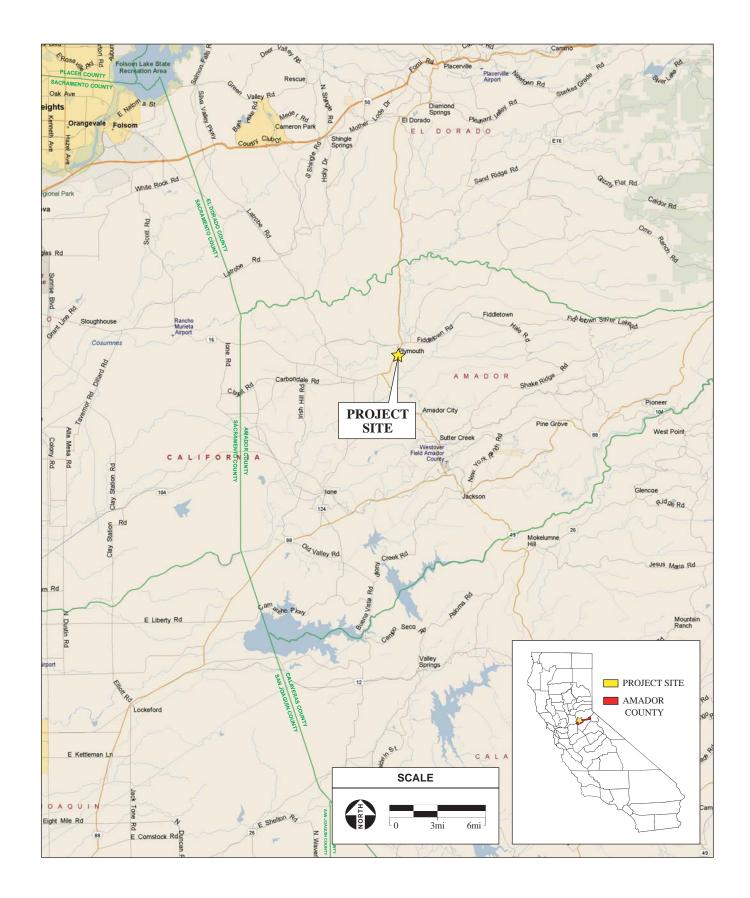
1.0 INTRODUCTION

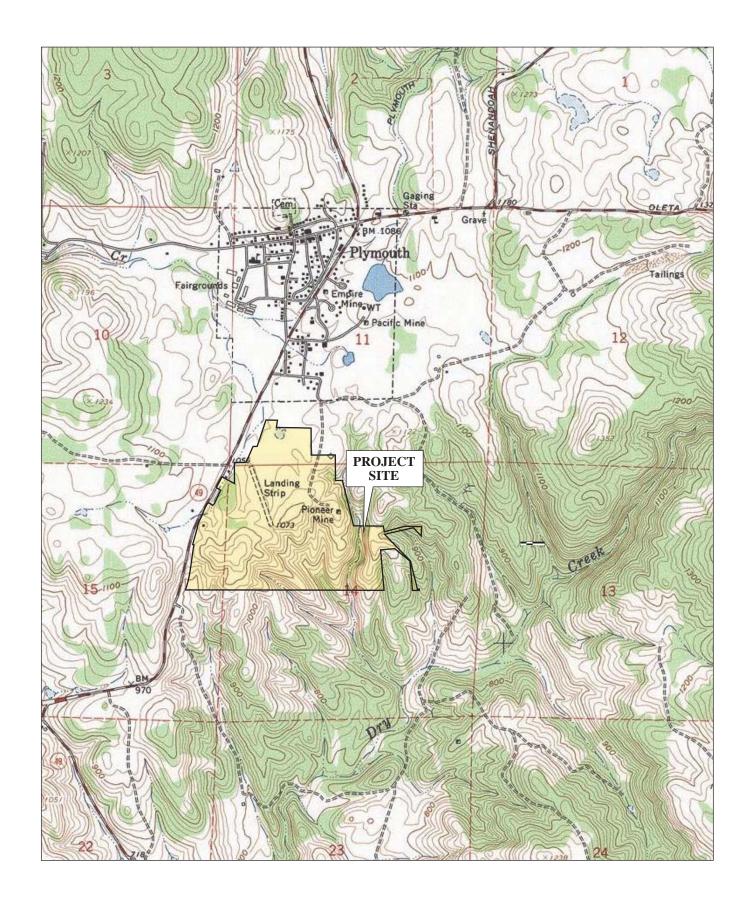
Analytical Environmental Services (AES) has conducted a formal delineation of "waters of the U.S." occurring within the 230 ± acre Ione Casino study area. The study area includes 10±-acres of land located within the City of Plymouth, while the remaining acres are located on unincorporated land within 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**.

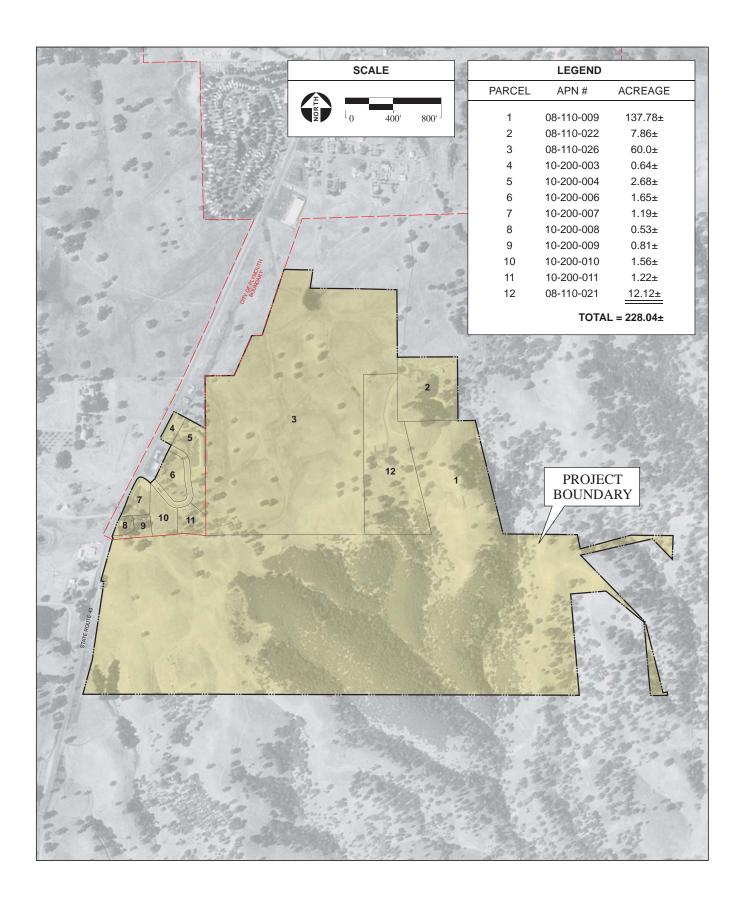
2.0 ENVIRONMENTAL SETTING

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 **S**AVANNA

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).

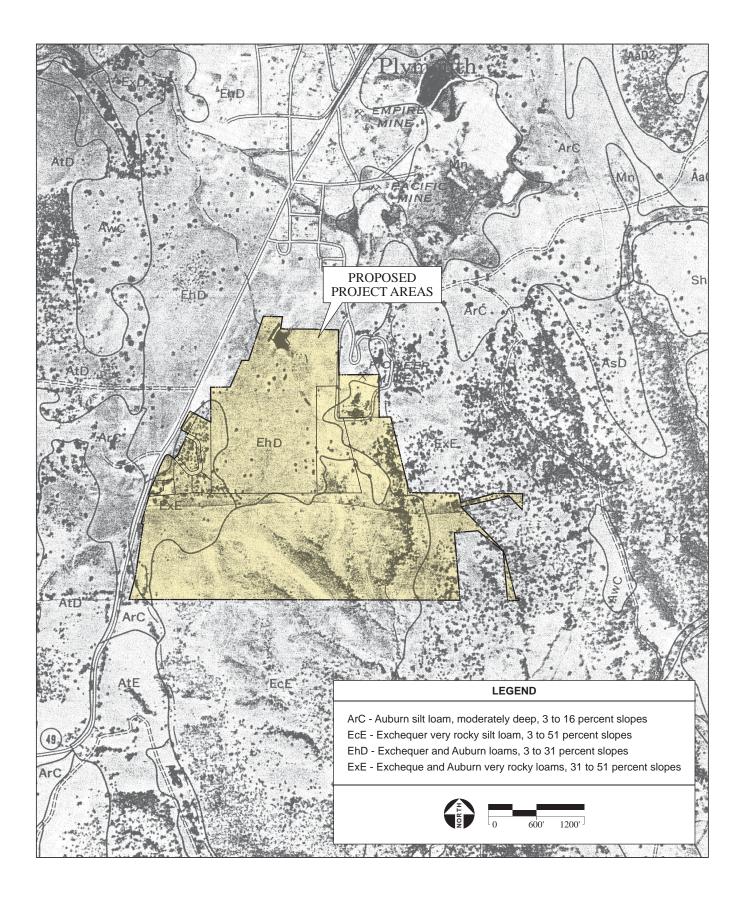
RIPARIAN WOODLAND

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

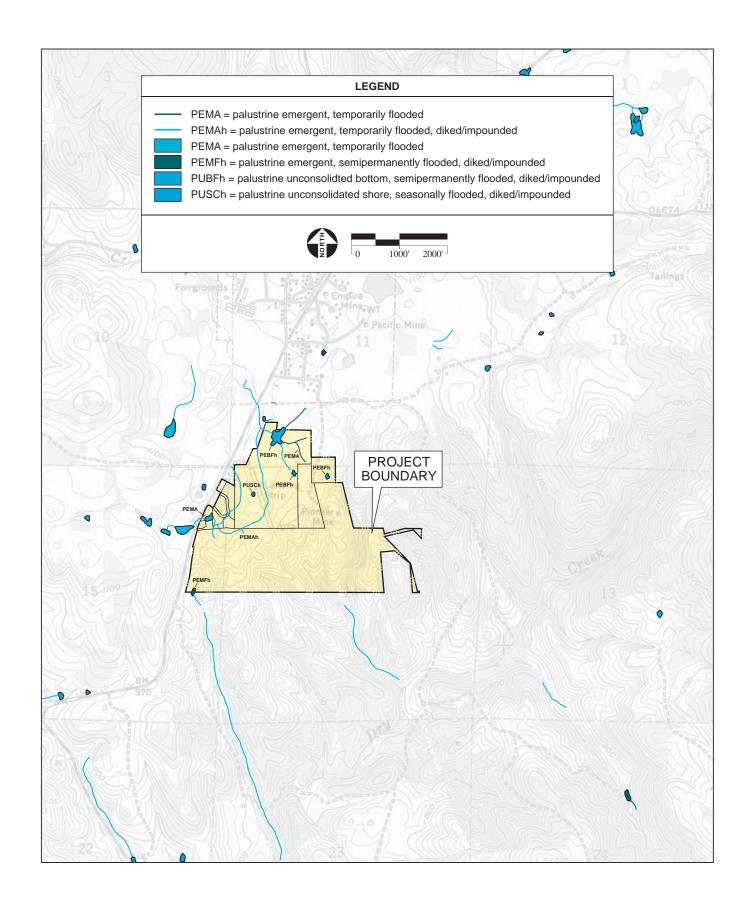
Four cattle ponds occur on the project site. A cattle pond was observed near the southwest corner of Parcel 1. This feature is fed by two swales that capture runoff from nearby Highway 49 and the surrounding landscape. The pond and its perimeter are devoid of vegetation, except for scattered willow weed (*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.



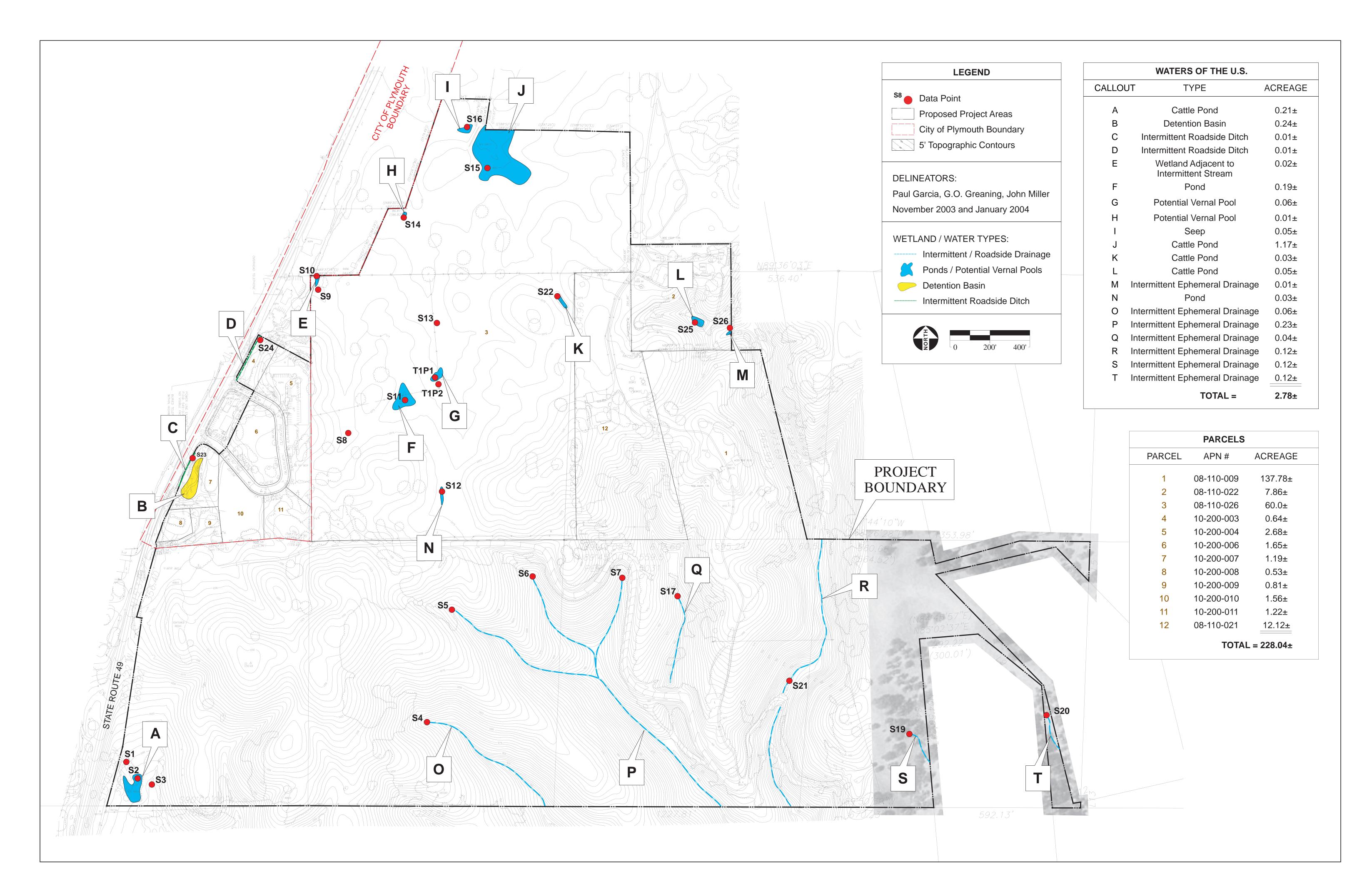
Photograph 6
Vernal pond and swale.



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
T01	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

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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.
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APPENDIX

DELINEATION DATA SHEETS

(1987 COE Wetlands Delineation Manual)

	no Proj	PLF		Date	11/1	9/03	
Applicant / Owner				County	Amo	ador	
Investigator G.O. Graining,	John Hou	e, John	Miller	State	CA		
Do Normal Circumstances exist on t			VES NO	Community	/ ID		
Is the site significantly disturbed (Aty	pical Situati	on)?	YES NO	Transect ID	Swale	Sof Hw	v.49
Is the area a potential Problem Area	? (If needed, e	explain on revers	e) YES (NO)	Plot ID	5		
EGETATION							Mark St. Ch. commun va., Taxa at Sweet
Dominant Plant Species	Stratum	Indicator	Dominant F	Plant Species	T	Stratum	Indicato
Quercus douglasii	T	NOL	9				
Toxico dendron diversilosum	5	NOL	10				
3		1 40 12	11				
1			12				
5			13				
3			14				
7			15				
3	-		16				
Percent of Dominant Species that ar	OBL EAC	'M or EAC (valuding EAC \	0/2	= 0	9	
CrHeria	not n	net.					
	not n	net.					
Remarks Criteria IYDROLOGY	not n	net.					
Criteria IYDROLOGY Recorded Data (Describe in Stream, Lake, or Tide G	Remarks)	net.	Primary Indic	AND HYDRO)LOGY I	INDICATOR	RS
YDROLOGY Recorded Data (Describe in Stream, Lake, or Tide G	Remarks)	net.	Primary Indic	AND HYDRO ators: nundated)LOGY I	INDICATOR	RS
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No indicators

	eries and Phase):	Exchequer # Ai	abarn Very rocky	Drainage Class:	essively diamed		
Taxonomy (Subgro	oup)		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, Concretion Structure, etc.		
		HYDRIC	SOIL INDICATORS:		1		
Reducing	sture Regime Conditions Low-Chroma Cold	are	Listed o	n Local Hydric Soils List n National Hydric Soils I Explain in Remarks)			
Remarks:	pit excavade		La Other (L	- April 11 Normanie			
Remarks: ### Mo	pit excavate	d here.	La Other (L				
Remarks: ### Control ### Cont	pit excavate ERMINATION tation Present?	l here.		Point Within a Wetland?	YES (NO)		
Remarks: //CO /ETLAND DET Hydrophytic Veget Wetland Hydrolog Hydric Soils Prese	pit excavate ERMINATION tation Present? y Present?	d here.			YES NO		
Remarks: //CO /ETLAND DET Hydrophytic Veget Wetland Hydrolog Hydric Soils Prese Remarks	pit excavate ERMINATION tation Present? y Present? ent?	YES NO	Is this Sampling P		YES NO		
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(1987 COE Wetlands Delineation Manual)

Project/Site Ione Cas	1. D.	()	abilitatili kus ku kin she su isan Ashi sakasa ka kin a hiri a she sa ka s	Date //	/19/03	
Applicant / Owner	10.0 1 10	160.7		- 1		
Investigator G.O. Graening,	Tol. 41.	Tolu	Miller	State	CA	
Do Normal Circumstances exist on		we Junn	(YES) NO	Community ID		
Is the site significantly disturbed (At		on)?	YES (NO)	Transect ID 5	fact pands	S.I U. A
Is the area a potential Problem Area				Plot ID	SZ	or Huly
VEGETATION						
Dominant Plant Species	Stratum	Indicator	Dominant P	lant 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 (e	xcluding FAC-)	1/1 =1	00%	
HYDROLOGY				-		
П В	- D		WETL	AND HYDROLO	GY INDICATOR	RS
Recorded Data (Describe in			Primary Indica	ators:		
Stream, Lake, or Tide	Gauge			nundated		
☐ Aerial Photographs☐ Other				aturated in Uppe	r 12 Inches	
U Other			_	/ater Marks		
No Recorded Data Availab	nle.			rift Lines		
				ediment Deposit		
FIELD OBSERV				ediment Depositi Prainage Patterns		
		Ø (ir	Secondary Inc		in Wetlands	r 12 Inches
FIELD OBSERV	ATIONS	Ø (ir > 1 8 (ir	Secondary Inc	rainage Patterns	in Wetlands re Required): annels in Uppe aves	r 12 Inches

Criteria met. Site is a maintained stock watering pond.

SOILS				loam, 31 + 65	1 perant slipe > C
Map Unit Name (S	eries and Phase)	Exchequer & A	Juburn Very rock)	Drainage Class: ሂላ ር	estively drained
Taxonomy (Subgro		V		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	80% dull	clav
12-18	C	2.5 Y 7/6			insted with SYR.
					Clay
		HYDRIC	SOIL INDICATORS:		
Reducing Company Compa	ture Regime Conditions Low-Chroma Colo	it of the surfa	Listed o Listed o Other (E	Streaking in Sandy Son Local Hydric Soils List National Hydric Soils Explain in Remarks)	st List
VETLAND DETE					
Hydrophytic Vegeta Wetland Hydrology Hydric Soils Preser	ation Present?	YES NO YES NO	Is this Sampling P	oint Within a Wetland?	YES NO
Remarks	e is a	man-made	stock pond	with wetland	7
	haracterist		,		

(1987 COE Wetlands Delineation Manual)

Discussion of the second secon							
Project/Site Ione Cas	ino Proj	ret		Date	11/	19/03	
Applicant / Owner				County	Ami	ador	
Investigator 6.0. Graening, John Howe, John Miller					CA	***	
Do Normal Circumstances exist on the site? (YES) NO					y ID		
Is the site significantly disturbed (Atypical Situation)?				Transect I	Transact ID Swale SE of Hwy 49		
Is the area a potential Problem Area	3? (If needed, e	xplain on revers	e) YES (NO)	Plot ID		S3	
VEGETATION	11						
Dominant Plant Species	Stratum	Indicator	Dominant P	lant Species	6	Stratum	Indicator
1 Quercus douglasii	T	NOL	9				
2 Claytonia parviflora	H	FAC	10				
3 Avena fatua	Н	NOL	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-)	1/3	= 3	3%	
Criteria not met	•						
HYDROLOGY							
Recorded Data (Describe i Stream, Lake, or Tide Aerial Photographs Other		enterior de la Constitución de l	Primary Indic		Upper 1	/ INDICATOR	RS
No Recorded Data Availab	ole			orift Lines Sediment De	posits		
FIELD OBSERV	ATIONS			rainage Pat	tterns in	Wetlands	
Depth of Surface Water		Ø (i	Secondary In			Required): nels in Uppe	r 12 Inches
Depth to Free Water in Pit	1	1/A (i	n) L	Vater-Staine ocal Soil Su	rvey Da		
Depth to Saturated Soil	N	/A (i		AC-Neutral Other (Expla		emarks)	

No indicators.

Map Unit Name (Se	eries and Phase)	Exchange \$ 1.	John, 31 to 51 percent slopes 5 Auburn very rocky Drainage Class: excessively drained				
Taxonomy (Subgro		- X Chequer - Fall	Field Observations Confirm Mapped Type? YES NO DFILE DESCRIPTION				
, axeriering (e angre		PROFIL					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions Structure, etc.		
	·	HYDDIC	SOIL INDICATORS:				
		TITERIO					
☐ Histosol			☐ Concret				
☐ Histic Epip			-	ganic Content in Surface			
☐ Sulfidic Od	*S			Streaking in Sandy Soil			
	ture Regime			n Local Hydric Soils List			
Reducing (Conditions		Listed o	n National Hydric Soils I	ist		
☐ Gleyed or I	Low-Chroma Cold	ors	☐ Other (E	Explain in Remarks)			
Remarks:		12					
11. 00	+ was exc	auded here.					
Na pr	1 1023 010	applica in C					
HER TOTAL CONTROL OF THE STATE							
ETLAND DET	ERMINATION		8				
Hydrophytic Vegeta	ation Present?	YES NO			ASSESSED AND ASSESSED AND ASSESSED ASSESSEDA ASSESSED ASSESSED ASSESSED ASSESSED ASSESSED ASSESSED ASSESSEDA ASSESSED ASSESSED ASSESSED ASSESSED ASSESSED ASSESSED ASSESSEDA ASSESSED ASSESSED ASSESSED ASSESSED ASSESSEDANCE ASSESSEDANCE ASSESSED ASSESSED ASSESSED ASSESSED ASSESSED ASSESSED ASSESSEDANC		
Wetland Hydrology	Present?	YES NO	Is this Sampling F	Point Within a Wetland?	YES NO		
Hydric Soils Prese	nt?	YES NO					
Remarks							
		13	4 4				
/-	Vo indicato	rs. No er	idence of flo	w.			

ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

- /	1)					2 1 /	,	
Project/Site Ione Casino	Project.				Date	11/	19/03	
Applicant / Owner					County	Amo	ador	
Investigator G.O. Graening	John H	lowe, Jo	hn Mill	ir	State	CA		
Do Normal Circumstances exist on		-	(YE		Communit	ty ID		
Is the site significantly disturbed (At	ypical Situati	on)?	YE	s NO	Transect I	DNV	U DryCr.T	tib w bro
Is the area a potential Problem Area	3? (If needed, e	explain on revers	e) YE	s NO	Plot ID	5	4	
POSICIO DE LOS DE COMO DE CAMBRIO DE CAMBRIO DE COMO D								
/EGETATION	01.1		T					
Dominant Plant Species	Stratum	Indicator		minant P	lant Species	5	Stratum	Indicator
1 Quercus Wislitenii		NOL	9					
2 Toxicodendron diversilibum		NOL	10					
3 Heteromeles arbutifolia	<u>S</u> S	NOL	11					
4 Adenstina tasciculatura		NOL.	12					
5 Artostaphyloc Manzanita	5	NOL	13					
6			14					
7			15					
8			16					
0					1/1	- 4	0/	
Percent of Dominant Species that a Remarks Criferia hot h		W, or FAC (e	excluding F	FAC-)	0/5	=0	/8	
Percent of Dominant Species that a Remarks		W, or FAC (e	excluding F	FAC-)	0/5	- 0	/8	
Percent of Dominant Species that a Remarks		W, or FAC (e	excluding F	FAC-)	0/5	- 0	/8	
Percent of Dominant Species that a Remarks Criferia hot h	net.	W, or FAC (e		WETLA			/X	RS
Percent of Dominant Species that a Remarks Criferia hot	n Remarks)	W, or FAC (e		WETLA	ators:			RS
Percent of Dominant Species that a Remarks Criferia hot hot hot Market and the Criferia hot	n Remarks)	W, or FAC (e		WETLA	ators: lundated	OLOGY	/ INDICATOR	RS
Percent of Dominant Species that an Remarks Crific hot	n Remarks)	W, or FAC (e		WETLA	ators: lundated aturated in l	OLOGY	/ INDICATOR	
Percent of Dominant Species that as Remarks Criferia hot ho HYDROLOGY Recorded Data (Describe in Stream, Lake, or Tide (Aerial Photographs	n Remarks)	W, or FAC (e		WETLA	ators: lundated aturated in l	OLOGY	/ INDICATOR	
Percent of Dominant Species that as Remarks Criferia hot ho HYDROLOGY Recorded Data (Describe in Stream, Lake, or Tide (Aerial Photographs	n Remarks)	W, or FAC (e		WETLA ary Indica In Sa W Do	ators: nundated aturated in l ater Marks rift Lines	OLOGY Jpper 1	/ INDICATOR	
Percent of Dominant Species that all Remarks Criferia hot	n Remarks) Gauge	W, or FAC (e		WETLA ary Indica In Sa W Di S. Se	ators: nundated aturated in l /ater Marks	OLOGY Jpper 1 Oh posits	INDICATOR	
Percent of Dominant Species that a Remarks Critic hot	n Remarks) Gauge	(ir	Prima	WETLA ary Indica In Sa W Do Se Do ndary Ind	ators: nundated aturated in U ater Marks rift Lines ediment Dep rainage Pati	DLOGY Jpper 1 Oh posits terns in	INDICATOR Inches State fra Wetlands Required):	agments
Percent of Dominant Species that all Remarks Critica hot	n Remarks) Gauge	**	Prima Seco	WETLA ary Indica In Sa W Se In On	ators: nundated aturated in U ater Marks rift Lines ediment Dep rainage Pati	DLOGY Jpper 1 Oh posits terns in r more t Chani d Leave	INDICATOR Inches Sale from Wetlands Required): nels in Upper	agments

Downcutting apparent.

SOILS			10	am, 31 to 51 pe	runt slopes. De		
Map Unit Name (S	eries and Phase):	Exchequer ve	ry rocky silt	Drainage Class: θχα	cessively 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.		
-							
		HYDRIC	SOIL INDICATORS:				
Reducing (Gleyed or L Remarks:	or ture Regime		Organic Listed or	ons ganic Content in Surface Streaking in Sandy Soils I Local Hydric Soils List In National Hydric Soils L Explain in Remarks)	S		
VETLAND DETE Hydrophytic Vegeta Wetland Hydrology Hydric Soils Prese	ation Present?	YES NO YES NO	Is this Sampling P	oint Within a Wetland?	YES NO		
Remarks 5; drainage	He is at in an ep	or hear the hemeral char	upper end nnel. Wea	of an intermi k indicator+	Hent of flow.		

(1987 COE Wetlands Delineation Manual)

Project/Site Ione Cas	ino Pro	ject		Date //	/19/03	
Applicant / Owner				County A	mader	
Investigator 6.0 Graching,		A				
Do Normal Circumstances exist on	Community ID					
Is the site significantly disturbed (Aty	ypical Situati	on)?	YES NO	Transect ID A	JW Dry Cr.	Trib. WAL
Is the area a potential Problem Area	? (If needed, e	explain on reve	se) YES NO	Plot ID	S5	
EGETATION						
Dominant Plant Species	Stratum	Indicator	Dominant	Plant Species	Stratum	Indicator
1 Quercul Wislizenii	T	NOL	9			
2 Toxico dendron diversilobum	5	NOL	10			
3 Cynosurus echinatus	H	NOL	11			
4			12			
5			13			
6			14			
7			15			
8			16			
		CW, or FAC	excluding FAC-)	0/3 = 0	o %	
Percent of Dominant Species that all Remarks Critica not be		CW, or FAC	excluding FAC-)	0/3 = 0	5 %	
Remarks		CW, or FAC	excluding FAC-)	0/3 = 0	5 %	
Remarks Criteria not n	n Remarks)	CW, or FAC	WETI Primary India	_AND HYDROLO cators: nundated Saturated in Uppe Water Marks	GY INDICATOR	RS
Critica not by HYDROLOGY Recorded Data (Describe in Stream, Lake, or Tide (Aerial Photographs	n Remarks)	CW, or FAC	WETI Primary India	LAND HYDROLO cators: nundated Saturated in Uppe	GY INDICATOR	RS
Remarks Critica not be HYDROLOGY Recorded Data (Describe in Stream, Lake, or Tide of Aerial Photographs Other	n Remarks) Gauge	CW, or FAC	WETI Primary India	LAND HYDROLO cators: nundated Saturated in Upper Water Marks Drift Lines	GY INDICATOR er 12 Inches ts	RS
Remarks Critica not be IYDROLOGY Recorded Data (Describe in Stream, Lake, or Tide of Aerial Photographs Other No Recorded Data Availab	n Remarks) Gauge	7	WETI Primary India	LAND HYDROLO cators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposit	er 12 Inches ts s in Wetlands ore Required):	
Remarks Critica not be HYDROLOGY Recorded Data (Describe in Stream, Lake, or Tide of Aerial Photographs Other No Recorded Data Availabe FIELD OBSERV	n Remarks) Gauge	Ø	WETI Primary India	LAND HYDROLO cators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposit Drainage Patterns	er 12 Inches ts s in Wetlands ore Required): nannels in Uppe	

Beginnings of channel incision; sorting of fines.

Map Unit Name (S	eries and Phase):	Exchequer very	rocky silt leam,	Drainage Class: פֿאָנוֹ	essively drained		
Taxonomy (Subgro		/	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, Concretion Structure, etc.		
		HYDRIC	SOIL INDICATORS:				
Histosol Histic Epip Sulfidic Od		THE N	Concreti	ons ganic Content in Surface Streaking in Sandy Soil:	and the second state of the second se		
p	ture Regime			Local Hydric Soils List	5		
Reducing (Conditions			n National Hydric Soils L	ist		
Gleyed or	Low-Chroma Colo	rs	Other (E	xplain in Remarks)			
Remarks: No p	it was exco	wated here.					

Hydrophytic Vegetation Present?	YES (NO)	
Wetland Hydrology Present?	(YES) NO	Is this Sampling Point Within a Wetland? YES (NO)
Hydric Soils Present?	YES NO	
Remarks		
Site is at the to ephemeral flo	, A	of a drainage with intermittent
i opinioni i	h. Me	

ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

	(1907 C						
Project/Site Ione Casino	Project			Date	11/10	1/03	
Applicant / Owner				County	Amao	lor	
Investigator G.O. Graening,	John Hou	ce, Joh	n Miller	State	CA		
Do Normal Circumstances exist on		,	(YES) NO	Community	ID		
Is the site significantly disturbed (A	typical Situati	on)?	YES (NO)	Transect ID	NW	Dry Cr.T	rib. NWb
Is the area a potential Problem Are	a? (If needed, e	xplain on rever	se) YES NO	Plot ID	SI	7	
ECETATION			and the second section of the second	A STATE OF THE STA		The state of the s	
ZEGETATION Dominant Plant Species	Stratum	Indicator	Dominant D	lant Chasin	T	011	1 1 1
4 1	otratum	-	9	lant Species		Stratum	Indicator
CONCREME DOISTICEMIT		NOL					
2 Toxicodendron diversilibun	S	NOL	10				
3 Cynosurus echinostus		NOL	11				
5			12				
6			14				
7			15				
1							
9			16				
Percent of Dominant Species that a		W, or FAC (excluding FAC-)	0/3 =	= 07	ž	
8 Percent of Dominant Species that a Remarks Criteria hot		W, or FAC (excluding FAC-)	0/3 =	= 07	č č	
Percent of Dominant Species that a		W, or FAC (excluding FAC-)	0/3 =	= 07	č	
Percent of Dominant Species that a Remarks Criteria hod IYDROLOGY	met.	W, or FAC (O/3 =			RS
Percent of Dominant Species that a Remarks Criteria hot IYDROLOGY Recorded Data (Describe i	met.	W, or FAC (AND HYDROI			RS
Percent of Dominant Species that a Remarks Criteria hot IYDROLOGY Recorded Data (Describe i Stream, Lake, or Tide	met.	W, or FAC (WETLA Primary Indica	AND HYDROI itors: undated	LOGYI	NDICATOR	RS
Percent of Dominant Species that a Remarks Criteria hot IYDROLOGY Recorded Data (Describe i Stream, Lake, or Tide Aerial Photographs	met.	W, or FAC (WETLA Primary Indica	AND HYDROI itors: undated aturated in Up	LOGYI	NDICATOR	RS
Percent of Dominant Species that a Remarks Criteria hot IYDROLOGY Recorded Data (Describe i Stream, Lake, or Tide	met.	W, or FAC (WETLA Primary Indica In Sa	AND HYDROI itors: undated aturated in Up	LOGYI	NDICATOR	RS
Percent of Dominant Species that a Remarks Criteria hot YDROLOGY Recorded Data (Describe i Stream, Lake, or Tide Aerial Photographs Other	met. In Remarks) Gauge	W, or FAC (WETLA Primary Indica In Sa	AND HYDROI itors: undated aturated in Up ater Marks rift Lines	LOGY I	NDICATOR	RS
Percent of Dominant Species that a Remarks Criteria hod YDROLOGY Recorded Data (Describe i Stream, Lake, or Tide Aerial Photographs Other No Recorded Data Availab	med. in Remarks) Gauge	W, or FAC (WETLA Primary Indica In Sa W D SS	AND HYDROI stors: undated aturated in Up ater Marks rift Lines ediment Depo	LOGY I	NDICATOR	RS
Percent of Dominant Species that a Remarks Criteria hot IYDROLOGY Recorded Data (Describe i Stream, Lake, or Tide Aerial Photographs Other	med. in Remarks) Gauge	W, or FAC (WETLA Primary Indica In Sa W D SS	AND HYDROI itors: undated aturated in Up ater Marks rift Lines	LOGY I	NDICATOR	RS
Percent of Dominant Species that a Remarks Criteria hod YDROLOGY Recorded Data (Describe i Stream, Lake, or Tide Aerial Photographs Other No Recorded Data Availab	med. in Remarks) Gauge	✓	WETLA Primary Indica In Secondary Inc	AND HYDROI tors: undated aturated in Up ater Marks rift Lines ediment Depo	LOGY I pper 12 psits erns in V	NDICATOR Inches Vetlands Required):	
Percent of Dominant Species that a Remarks Criteria hot YDROLOGY Recorded Data (Describe i Stream, Lake, or Tide Aerial Photographs Other No Recorded Data Availate FIELD OBSERV	met. In Remarks) Gauge Ole VATIONS	Ø (i	WETLA Primary Indica In Secondary Inc O W	AND HYDROI utors: undated aturated in Up ater Marks rift Lines ediment Deporainage Patte	Doper 12 Dosits Firms in V More R Channe	NDICATOR Inches Vetlands Lequired):	

Incised Channel 3 teet deep; Sorting of times

SOILS				314, 51 percent	-slopes, 56
Map Unit Name (S	Series and Phase):	Exchaquer very	rocky sill lum	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.
	,				
Reducing Gleyed or Remarks:			Organic Listed o Listed o	ganic Content in Surface Streaking in Sandy Soil n Local Hydric Soils List n National Hydric Soils L Explain in Remarks)	S
WETLAND DET		VES (III)	1		
Wetland Hydrolog	y Present?	YES NO	Is this Sampling P	oint Within a Wetland?	YES NO
		V	end of a o	trainage with 1	intermittent
10 epn	omero 100	······································			

DATA FORM - ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Decimal/Site T. C.	. P	. 1		Date	11//	9/03	
Project/Site Ione Casi	no Proj	PCF		County	11/1	1	
Applicant / Owner	111	1 1	i k / / // .	-	Amo	eder	
Investigator G.O. Braining		towe, Jo	hh Miller	State	CA		
Do Normal Circumstances exist on			(YES) NO	Commun		100	T 1 111
Is the site significantly disturbed (Al			YES NO	Transect	ID NW	Dry Ct.	Trib. Nbi
Is the area a potential Problem Are	a? (If needed, e	explain on revers	e) YES (NO)	Plot ID		>+	
EGETATION							
Dominant Plant Species	Stratum	Indicator	Dominant P	lant Specie	s	Stratum	Indicator
1 Quereus Wislizenii	T	NOL-	9				
2 Heteromeles arbutifolia	S	NOL	10				
3 Cyhosurus echinatus	H	NOL	11				
4			12				
5			13				
6			14				
7			15				
8			16				
Percent of Dominant Species that a	re OBL, FAC	CW, or FAC (excluding FAC-)	0/3 =	=0%		

HYDROLOGY							
Recorded Data (Describe Stream, Lake, or Tide Aerial Photographs Other			Primary Indic	ators: nundated Saturated in	Upper 1	'INDICATOR	RS
No Recorded Data Availa	ble			Vater Marks Drift Lines Sediment De			
FIELD OBSER\	/ATIONS			Drainage Pa		Wetlands	
Depth of Surface Water		Ø (i	Secondary In			Required):	r 12 Inches
Depth to Free Water in Pit		N/A	n)	Water-Stain Local Soil S	ed Leave	es	
Depth to Saturated Soil		N/A	-\	FAC-Neutra Other (Expla		marks)	
D 1	1 /		, ,	^			THE PARTY OF THE P

Beginning + of channel formation; sorting of fines -

0	7
	+

Map Unit Name (S	Series and Phase)	: Exchequer very	rocky sill ham,	Drainage Class: ₹γ	cessively drained
Taxonomy (Subgre		Ç ,		Confirm Mapped Type?	
		PROFIL	E DESCRIPTION		
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
		HYDRIC	SOIL INDICATORS:		
☐ Histosol		HIDRIC	Concreti		
Histic Epip	pedon			ons ganic Content in Surface	e Laver in Sandy Soils
☐ Sulfidic Oc				Streaking in Sandy Soil	
☐ Aquic Mois	sture Regime		process.	Local Hydric Soils List	
Reducing	Conditions		Listed or	n National Hydric Soils L	ist
☐ Gleyed or	Low-Chroma Colo	ors	U Other (E	xplain in Remarks)	
Remarks:		,			
No	pit was ex	cavated here.			
			taa ja ja valteisen ja ja viiteleisen taa allaksia korren on on allaksia saatuusia korren ja ja ja ja ja ja ja	molecular control com de material a control con a control mande de control de control de control de control de	
VETLAND DET	ERMINATION				

Hydrophytic Vegetation Present?	YES NO	
Wetland Hydrology Present?	(YES) NO	Is this Sampling Point Within a Wetland? YES (NO)
Hydric Soils Present?	YES NO	
Remarks		
Site is at 1	he head at	an intermittent channel in the
		in micronition t channel in the
Zone of ephemera	1 1/on.	
/		

(1987 COE Wetlands Delineation Manual)

	THE RESERVE OF THE PARTY OF THE	COMPANY THE REAL PROPERTY AND ADDRESS.	OF THE RESERVE AND PERSONS IN	AND COLUMN DESIGNATION OF THE PARTY OF THE P	WHEN SHOWING THE PARTY		A NAME OF TAXABLE PARTY OF TAXABLE PARTY.		
Project/Site Ione Casin	o Proj	pet				Date	11/	19/03	
Applicant / Owner						County	Am	nador	-
Investigator						State	CH		
Do Normal Circumstances exist on	the site?			YES) NO	Commun	ity ID		
Is the site significantly disturbed (At	ypical Situati	on)?		YES	NO	Transect	ID SI	wale behin	2 motel
Is the area a potential Problem Area	a? (If needed, e	explain on re	verse)	YES	MO	Plot ID		58	
TOTATION.								2000	
/EGETATION	Stratum	Indicate		Domi	nont Di	lant Chasia		T Charles	I to all a d
Dominant Plant Species	Stratum			Domi	Hant Pi	ant Specie		Stratum	Indicator
MEMICUNIA TASTICATOR	H	NOU)					
2 Etemocarpuz Setigeruz	[7]	NOU	111						
4			12						
5			13						
6			14						
			15					-	
7			16						
0)					
Percent of Dominant Species that a Remarks Chileria hot I		L CW, or FA			.C-)	0/2	= 0%	3	
Percent of Dominant Species that a Remarks		L CW, or FA			.C-)	0/2	= 0%	3	
Percent of Dominant Species that a Remarks		L CW, or FA			C-)	0/2	= 0%		
Percent of Dominant Species that a Remarks Chileria hot I	n Remarks)	L CW, or FA		uding FA	WETLA / Indics	AND HYDF ators: undated	ROLOGY	Y INDICATO	RS
Percent of Dominant Species that a Remarks Chileria hot i HYDROLOGY Recorded Data (Describe in Stream, Lake, or Tide of	n Remarks)	L CW, or FA		uding FA	WETLA / Indica	AND HYDF	ROLOG` Upper	Y INDICATO	RS
Percent of Dominant Species that a Remarks Chileria hot HYDROLOGY Recorded Data (Describe in Aerial Photographs Other	n Remarks)	L CW, or FA		uding FA	WETLA / Indica In Si W D	AND HYDF ators: undated aturated in ater Marks rift Lines	ROLOG` Upper	Y INDICATO	RS
Percent of Dominant Species that a Remarks Chileria hot I HYDROLOGY Recorded Data (Describe in Aerial Photographs Other No Recorded Data Availab	n Remarks) Gauge	L CW, or FA		uding FA	WETLA / Indica In Si W D S	AND HYDF ators: undated aturated in later Marks rift Lines ediment De	COLOG` Upper s eposits	Y INDICATO	RS
Percent of Dominant Species that a Remarks Chileria hot HYDROLOGY Recorded Data (Describe in Aerial Photographs Other	n Remarks) Gauge	L CW, or FA		uding FA	WETLA / Indica In Si W D S	AND HYDF ators: undated aturated in later Marks rift Lines ediment De	COLOG` Upper s eposits	Y INDICATO	RS
Percent of Dominant Species that a Remarks Chileria hot HYDROLOGY Recorded Data (Describe in Stream, Lake, or Tide of Aerial Photographs Other No Recorded Data Availab	n Remarks) Gauge	CW, or FA		Primary	WETLA / Indica In Si W D So D dary Inc	AND HYDF ators: undated aturated in later Marks rift Lines ediment Derainage Paradicators (2	COLOGY Upper s eposits atterns in	Y INDICATO	
Percent of Dominant Species that a Remarks Chileria hot HYDROLOGY Recorded Data (Describe in Stream, Lake, or Tide of Aerial Photographs Other No Recorded Data Availab FIELD OBSERV	n Remarks) Gauge ole ATIONS	DW, or FAI	C (excli	Primary	WETLA / Indica In Si W D So D dary Inc	AND HYDF ators: undated aturated in later Marks rift Lines ediment Derainage Paradicators (2	Upper s eposits atterns in or more	Y INDICATO 12 Inches Netlands Required): nnels in Uppe	

Criteria not met.

Map Unit Name (S	eries and Phase):	Exchequer and f	Juburn loam, 3	Drainage Class: (7)	esinely drained
Taxonomy (Subgro		U .		Confirm Mapped Type?	
		PROFIL	E DESCRIPTION		
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-14	Ą	2.5 Y 4/3	10 YR 4/4	20% dull	silt learn
14-16	A	2.5 Y 4/3	N/A	holit	clay loam
	9				
		HYDRIC S	SOIL INDICATORS:		
Reducing 0	or ture Regime	6	Organic Listed or Listed or	ons ganic Content in Surface Streaking in Sandy Soils n Local Hydric Soils List n National Hydric Soils L xplain in Remarks)	S
Criteri	ia not met				
WETLAND DETE	RMINATION				
Hydrophytic Vegeta		YES (NO)			
Wetland Hydrology		YES (NO)	Is this Sampling Po	oint Within a Wetland?	YES NO

Hydrophytic Vegetation Present?	YES	NO		***************************************		
Wetland Hydrology Present?	YES	NO	Is this Sampling Point Within a Wetland?	YES	(NO)	
Hydric Soils Present?	YES	NO				
Remarks			·			

Criteria not met.

(1987 COE Wetlands Delineation Manual)

Project/Site Ione Cas	in. Di .	ject		Date	11/1	9 /03	·
Applicant / Owner	ino Ira	Jaca		County	Λ.		1
Investigator G.O. Graening	Tab. 1	lowe, Jo	hn Miller	State	Amao	A	
Do Normal Circumstances exist on		owe, Jo	(YES) NO	Community	CH		
Is the site significantly disturbed (At		on\2				1 1 0	11 111
							itel at dita
Is the area a potential Problem Area	a? (If needed, e	xplain on reverse	YES (NO	Plot ID	S	9	
/EGETATION							
Dominant Plant Species	Stratum	Indicator	Dominant P	Plant Species	5	Stratum	Indicator
1 Paspalum dilatatum	H	FAC	9				
2 Lythrum hyssepitolium	Ĥ	FACW	10				
3 Cynodon dastylon	H	FAC	11				
4			12				
5			13				
6			14			-	
7			15				
8			16				
Percent of Dominant Species that a	re OBL FAC	W or FAC (e		3/3 =/	100%		
HYDROLOGY							
			WETL	AND HYDRO	LOGY IN	DICATOR	RS
Recorded Data (Describe in			Primary Indica	ators:			
☐ Stream, Lake, or Tide (Gauge		☐ Ir	nundated			
☐ Aerial Photographs				aturated in U	pper 12 la	nches	
☐ Other				Vater Marks			
No Recorded Data Availab	le.			rift Lines			
				Sediment Dep			
FIELD OBSERV	ATIONS			rainage Patte	erns in VV	etlands	
Depth of Surface Water		Ø (ir		dicators (2 or Oxidized Root			12 Inches
Depth to Free Water in Pit	***	>8 (ir)	Vater-Stained ocal Soil Sur	Leaves	, ,	
Depth to Saturated Soil	-	> 8 (ir		AC-Neutral T	est	rks)	
	۸			- I (Expiditi	ili i voilla	· 110)	

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

00120						
Map Unit Name (S	Series and Phase)	: Exchequer and f	Juhun leam, 3 to	Drainage Class: θγ(estively drained	
Taxonomy (Subgr	oup)	•	Field Observations Confirm Mapped Type? YÉS 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	5Y4/1	N/A	hone	clay loan	
2-8	B	2.5 Y 4/Z	10 YR 4/4	60% dull	Clay han	
				,		
		HYDRIC	SOIL INDICATORS:			
☐ Histosol ☐ Histic Epip	pedon		☐ Concret☐ High Or	ions ganic Content in Surface	e Layer in Sandy Soils	
Sulfidic O	dor		☐ Organic	Streaking in Sandy Soil	S	
	sture Regime			n Local Hydric Soils List		
	Conditions			n National Hydric Soils L	ist	
	Low-Chroma Colo	ors	☐ Other (E	Explain in Remarks)		
	-ock at 8 deria met.	depth-				
AND OF THE PARTY O	s constitute de constitute de la proposition della proposition del				ACT OF SECURE AND SECURE OF SECURE AS A SECURE OF SECURE OF SECURE AS A SECURE OF SECURE OF SECURE AS A SECURE OF SECURE OF SECURE AS A SECURE OF SECURE AS A SECURE OF SECURE OF SECURE OF SECURE AS A SECURE OF SECURE	
WETLAND DET	ERMINATION					
Hydrophytic Veget	tation Present?	(YES) NO				

Hydrophytic Vegetation Present?	(YES) NO	
Wetland Hydrology Present?	(YES) NO	Is this Sampling Point Within a Wetland? (YES) NO
Hydric Soils Present?	(YES) NO	
Remarks		
Criteri	ia met.	

(1987 COE Wetlands Delineation Manual)

Project/Site Ione Cas	sino Pro	iect		Date	11	/19/03	
Applicant / Owner		J		County	An	nador	
Investigator 6.0. Graening,	State	CA	10.0.07				
Investigator 6.0. Graening, John Howe, John Miller Do Normal Circumstances exist on the site? YES) NO					/ ID		
Is the site significantly disturbed (Atypical Situation)? YES					Fid o	ch behind	State
Is the area a potential Problem Are	ea? (If needed, e	explain on rever	se) YES NO	Plot ID	211	510	. 0 10/0
						, ,	H-10-11-1-11-11-11-11-11-11-11-11-11-11-1
/EGETATION	Ţ	T					
Dominant Plant Species	Stratum	Indicator		lant Species		Stratum	Indicator
1 Rubus discolor	5	FACW *	9				
2 Paspalum dilutatum	H	FAC	10				
3 Cynodon dactylon	H	FAC	11				
4			12				
5			13				
6			14				
7			15				
			16	,			
Percent of Dominant Species that a Remarks Criferia Met		I CW, or FAC (excluding FAC-)	3/3	= /	100%	
Percent of Dominant Species that		CW, or FAC (excluding FAC-)	3/3	= /	100%	
Percent of Dominant Species that Remarks		CW, or FAC (excluding FAC-)	3/3	= /	100%	
Percent of Dominant Species that Remarks Criferia met		CW, or FAC (3/3			RS
Percent of Dominant Species that Remarks Criferia met HYDROLOGY Recorded Data (Describe	in Remarks)	CW, or FAC (AND HYDRO			RS
Percent of Dominant Species that Remarks Criferia met HYDROLOGY Recorded Data (Describe Stream, Lake, or Tide	in Remarks)	CW, or FAC (WETL. Primary Indica	AND HYDRO	DLOGY	INDICATOR	RS
Percent of Dominant Species that Remarks Criferia met HYDROLOGY Recorded Data (Describe Stream, Lake, or Tide Aerial Photographs	in Remarks)	CW, or FAC (WETL, Primary Indica	AND HYDRO ators: nundated aturated in U	DLOGY	INDICATOR	RS
Percent of Dominant Species that Remarks Criferia met HYDROLOGY Recorded Data (Describe Stream, Lake, or Tide	in Remarks)	CW, or FAC (WETL. Primary Indica	AND HYDRO ators: nundated aturated in U vater Marks	DLOGY	INDICATOR	RS
Percent of Dominant Species that Remarks Criferia met HYDROLOGY Recorded Data (Describe Stream, Lake, or Tide Aerial Photographs Other	in Remarks) Gauge	CW, or FAC (WETL/ Primary Indica	AND HYDRO ators: nundated aturated in U vater Marks wrift Lines	DLOGY	INDICATOR	RS
Percent of Dominant Species that Remarks Criferia met HYDROLOGY Recorded Data (Describe Stream, Lake, or Tide Aerial Photographs	in Remarks) Gauge ble	CW, or FAC (WETL/ Primary Indica In X.s	AND HYDRO ators: nundated aturated in U vater Marks wrift Lines ediment Dep	DLOGY opper 12	INDICATOR	RS
Percent of Dominant Species that Remarks Criferia met HYDROLOGY Recorded Data (Describe Stream, Lake, or Tide Aerial Photographs Other No Recorded Data Availa FIELD OBSERV	in Remarks) Gauge ble	~	WETL. Primary Indica In X.s	AND HYDRO ators: nundated aturated in U vater Marks wrift Lines ediment Dep	DLOGY pper 12 posits perns in 1	INDICATOR 2 Inches Wetlands	RS
Percent of Dominant Species that Remarks Criferia met HYDROLOGY Recorded Data (Describe Stream, Lake, or Tide Aerial Photographs Other No Recorded Data Availa	in Remarks) Gauge ble	~	WETL/ Primary Indica In Secondary Inc	AND HYDRO ators: nundated aturated in U vater Marks wrift Lines ediment Dep	DLOGY Opper 12 Oosits erns in 1	INDICATOR Inches Wetlands Required):	
Percent of Dominant Species that Remarks Criferia met HYDROLOGY Recorded Data (Describe Stream, Lake, or Tide Aerial Photographs Other No Recorded Data Availa FIELD OBSERV	in Remarks) Gauge ble	Ø (i	WETL, Primary Indica In	AND HYDRO ators: nundated aturated in U vater Marks wrift Lines ediment Dep brainage Patte	DLOGY DEPOSITS DESCRIPTION OF THE PROPERTY OF	INDICATOR Inches Wetlands Required): els in Upper	

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

Map Unit Name (S	eries and Phase	Evolument and A	Lelin lan 3to	Drainage Class: المرد	and did of
Taxonomy (Subgro	oup)	SACHEGIEF WORLD		Confirm Mapped Type?	
- Laxononny (Gabgre		DDOFU	1	Commit Mapped Type	TLS NO
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions Structure, etc.
0-3	1	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	30/0 , dull	tocky clay
	V. *				
Reducing 0	or ture Regime	ors	Organic Listed or	ions ganic Content in Surface Streaking in Sandy Soil n Local Hydric Soils List n National Hydric Soils L xplain in Remarks)	s
Remarks: Críter	ia met.	Slate bedroc	k encountered a	at 8"depth.	
VETLAND DETE		and the same of th			
Hydrophytic Vegeta	ation Present?	(YES) NO			
	D 10	150	1 1 11 1 0 11 5		/

Hydrophytic Vegetation Present?	YES NO	
Wetland Hydrology Present?	(YES) NO	Is this Sampling Point Within a Wetland? (YES) NO
Hydric Soils Present?	(YES) NO	
Remarks	- Second	
Criteria me	et.	

(1987 COE Wetlands Delineation Manual)

		1			11./	
Project/Site Ione Casin	Date	11/19/03				
Applicant / Owner			. 1 .	County	Amador	
Investigator 6.0- Graening, Ja	State	CA				
Do Normal Circumstances exist on	(YÉS) NO	Community I	D			
Is the site significantly disturbed (Aty	/pical Situati	on)?	YES (NO)	Transect ID	Vernal Swale	Wot landi
Is the area a potential Problem Area	? (If needed, e	explain on revers	se) YES NO	Plot ID	511	
VEGETATION						
Dominant Plant Species	Stratum	Indicator	Dominant P	Plant Species	Stratum	Indicator
1 Eleocharis Macrostachya	Н	OBL	9			
2			10			
3			11			
4			12			
5			13	-		
6			14			
7			15			
8			16			
Percent of Dominant Species that ar	ORI EAC	IN or EAC (L	1/1 -1	00%	
	CHICAGO CHICA AGUNUN CHICAGO C					
HYDROLOGY						
			WETL	AND HYDROL	OGY INDICATOR	RS
Recorded Data (Describe in			Primary Indica			
Stream, Lake, or Tide G	Bauge		☐ In	nundated		
☐ Aerial Photographs ☐ Other			process.	aturated in Upp	per 12 Inches	
□ Other				Vater Marks		
No Recorded Data Availab	0			rift Lines		
FIELD OBSERVA				ediment Depos		
FIELD OBSERVA	4110115			ramage Patter	ns in Wetlands	
Depth of Surface Water		Ø (ir	1/1		nore Required): Channels in Upper	12 Inches
Depth to Free Water in Pit		716 (in		Vater-Stained L ocal Soil Surve	eaves	
Depth to Saturated Soil	60	>16 (in	□ F	AC-Neutral Te	st	
1/200 500 605	7,	1 1 1	11/1/1	/ /	1 1 .	WATER BOOK OF THE PROPERTY OF THE

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

OILS		÷	1 1 = 1	31 perunt stopes.	
		Exchequer and A	/	Drainage Class: ピス(
Taxonomy (Subgro	up)		Field Observations	Confirm Mapped Type?	YEŚ NO
		PROFIL	LE DESCRIPTION		
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretion Structure, etc.
0-2	A	2.5 Y 4/2		10% faint	clayloan
2-16	В	2.54 4/3			clay loan
		HYDRIC	SOIL INDICATORS:		
Reducing C Gleyed or L emarks:	ture Regime Conditions .ow-Chroma Color		Listed or Listed or Other (E	Streaking in Sandy Soils I Local Hydric Soils List I National Hydric Soils L IXPlain in Remarks) OTL APL Weak	ist
OFITE	the the	artace layer	- Ohlu		,
Осси	r in inc	arioux layer			
ETLAND DETE	RMINATION				
Hydrophytic Vegeta	tion Present?	(YES) NO			
Wetland Hydrology	Present?	(YES) NO	Is this Sampling Po	oint Within a Wetland?	YES (NO)
Hydric Soils Preser	nt?	YES (NO)			
Remarks This	s feature 1	s a man-h	made, artin	ficial pond h	1744
hydroph	1		/	/	

ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

					0 1	/ /	
Project/Site Ione Cas	Date	11/	19/03				
Applicant / Owner				County	A	mador	
Investigator G.O. Graening	, John +	lowe J	shu Miller	State	CA	Te i e	
Do Normal Circumstances exist of	/	/	(YES) NO	Commun	ity ID		
Is the site significantly disturbed (Atypical Situati	on)?	YES NO	Transect	ID Vern	nal swale a	1 Sendat 1
Is the area a potential Problem Ar	ea? (If needed, e	explain on rever	se) YES NO	Plot ID		12	
	D and Control of the			-			
/EGETATION		7					
Dominant Plant Species	Stratum	Indicator	Dominant F	lant Specie	es	Stratum	Indicator
1 Eryngium Castrense	H	FACW	9				
2 Agrostis Stolonitera	H	FACW	10				
3			11				
4			12				
5			13				
6			14				
7			15				
			16				
8							
Percent of Dominant Species that Remarks Crifichia Mer		I CW, or FAC (2/2	= 10	0%	
Percent of Dominant Species that Remarks Critical Me		I CW, or FAC (2/2	= 10	0%	
Percent of Dominant Species that Remarks		I CW, or FAC (2/2	= 10	0%	
Percent of Dominant Species that Remarks Crifichia Mer	+ .	I CW, or FAC (excluding FAC-)			INDICATOR	RS
Percent of Dominant Species that Remarks CHACHIA MC HYDROLOGY Recorded Data (Describe	in Remarks)	I CW, or FAC (excluding FAC-) WETL	AND HYDR			RS
Percent of Dominant Species that Remarks Crifichia Me: HYDROLOGY Recorded Data (Describe	in Remarks)	I CW, or FAC (excluding FAC-) WETL Primary Indica	AND HYDR ators: nundated	ROLOGY	INDICATOR	RS
Percent of Dominant Species that Remarks CHACHIA MC HYDROLOGY Recorded Data (Describe	in Remarks)	I CW, or FAC (WETL Primary Indica	AND HYDRators: nundated aturated in	ROLOGY Upper 1	INDICATOR	RS
Percent of Dominant Species that Remarks CHACHIA MC HYDROLOGY Recorded Data (Describe Stream, Lake, or Tide Aerial Photographs	in Remarks)	J CW, or FAC (WETL. Primary Indica Ir	AND HYDR ators: nundated aturated in /ater Marks	ROLOGY Upper 1	INDICATOR	RS
Percent of Dominant Species that Remarks CHACHIA MC HYDROLOGY Recorded Data (Describe Stream, Lake, or Tide Aerial Photographs	e in Remarks)	I CW, or FAC (WETL. Primary Indica	AND HYDRators: nundated aturated in /ater Marks	COLOGY Upper 1	INDICATOR	RS
Percent of Dominant Species that Remarks CHACHIA MC HYDROLOGY Recorded Data (Describe Stream, Lake, or Tide Aerial Photographs Other	in Remarks) e Gauge	L CW, or FAC (WETL. Primary Indica Ir	AND HYDR ators: nundated aturated in /ater Marks rift Lines ediment De	COLOGY Upper 1	INDICATOR 2 Inches	RS
Percent of Dominant Species that Remarks CHACHIA ME HYDROLOGY Recorded Data (Describe Stream, Lake, or Tide Aerial Photographs Other No Recorded Data Availa	in Remarks) e Gauge		WETL Primary Indica Ir S S Secondary Ind	AND HYDR ators: nundated aturated in /ater Marks rift Lines ediment De rainage Pa	COLOGY Upper 1 seposits tterns in	INDICATOR 2 Inches Wetlands Required):	
Percent of Dominant Species that Remarks CHACHIA ME HYDROLOGY Recorded Data (Describe Stream, Lake, or Tide Aerial Photographs Other No Recorded Data Availa	in Remarks) Gauge Able VATIONS) (i	WETL Primary Indica Ir S S S S S S O N O O O O O O O O O O O O	AND HYDR ators: nundated aturated in /ater Marks rift Lines ediment De rainage Pa	Upper 1 seposits tterns in or more ot Chanred Leave	INDICATOR 2 Inches Wetlands Required): nels in Upperes	

Seasonal ponding.

Man Unit Name (Se	rice and Phase):	E	11 / 21	Drainage Class; Dr.		
		Exchequer and to	Field Observations Confirm Mapped Type? YES NO			
Taxonomy (Subgroup)						
			E DESCRIPTION			
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions Structure, etc.	
0-14	A	2.5 Y 5/3	10 YR 4/4	40% dull	clay luan	
				,	/	
		LIVERIO	SOIL INDICATORS:			
Reducing C Gleyed or L Remarks:	or ure Regime		Organic Listed o	ganic Content in Surface Streaking in Sandy Soils n Local Hydric Soils List n National Hydric Soils L Explain in Remarks)	s	
VETLAND DETE	RMINATION					
Hydrophytic Vegeta		(YES) NO	The second secon			
Wetland Hydrology		(YES) NO	Is this Sampling P	oint Within a Wetland?	YES (NO)	
Hydric Soils Presen	t?	YES (NO)				
Remarks						
S	ite is a	vernal Swa	le at its	head.		

DATA FORM - ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Project/Site Ione Casi	Date	11/19/03)			
Applicant / Owner		County	Amador			
nvestigator G.O. Graening	State	CA				
Do Normal Circumstances exist on	Miller YES NO	Community II	D			
Is the site significantly disturbed (At	YES NO	Transect ID	Vernal Swale E	of landin		
ls the area a potential Problem Area	Plot ID	- 1 ni	27			
EGETATION Deminant Plant Species	Stratum	Indicator	Dominant B	lant Species	Stratum	Indicator
Dominant Plant Species	11		9	iant opecies	Stratum	mulcator
Eleocharis macrostachya-	H	DBL	10			
Eryngium Castrense	H	FACW				
Etemocurpus setigerus	H	HOL	11			
4			12			
5			13			
5			14	± 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 100		
7			15			
Percent of Dominant Species that a		CW, or FAC (e	16 excluding FAC-)	2/3 =	67%	
Percent of Dominant Species that a Remarks CHAPIA Met		CW, or FAC (e		2/3 =	67%	
Percent of Dominant Species that a Remarks CHAPIA Met		CW, or FAC (e		2/3 =	67%	
Percent of Dominant Species that a Remarks CHAPIA Met	v	CW, or FAC (e	excluding FAC-) WETL	AND HYDROL	67% OGY INDICATOR	RS
Percent of Dominant Species that a Remarks CHARIA Met IYDROLOGY Recorded Data (Describe i	n Remarks)	CW, or FAC (e	wetl Primary Indica	AND HYDROL		RS
Percent of Dominant Species that a Remarks CHARIA Met IYDROLOGY Recorded Data (Describe i Stream, Lake, or Tide	n Remarks)	CW, or FAC (e	WETL Primary Indica	AND HYDROLO	OGY INDICATOR	RS
Percent of Dominant Species that a Remarks Chileria met	n Remarks)	CW, or FAC (e	WETL Primary Indicates In Section 1	AND HYDROLG ators; nundated saturated in Upp	OGY INDICATOR	RS
Percent of Dominant Species that a Remarks CHARIA Met IYDROLOGY Recorded Data (Describe i Stream, Lake, or Tide Aerial Photographs	n Remarks)	CW, or FAC (e	WETL Primary Indicates In Section 1	AND HYDROLG ators: nundated saturated in Upp Vater Marks	OGY INDICATOR	RS
Percent of Dominant Species that a Remarks CHARIA Met IYDROLOGY Recorded Data (Describe i Stream, Lake, or Tide Aerial Photographs	n Remarks) Gauge	CW, or FAC (e	WETL Primary Indicates In Section 1	AND HYDROLG ators: nundated saturated in Upp Vater Marks Orift Lines	OGY INDICATOR	RS
Percent of Dominant Species that a Remarks CHACLIA Met IYDROLOGY Recorded Data (Describe i Stream, Lake, or Tide i Aerial Photographs Other	n Remarks) Gauge	W, or FAC (e	WETL Primary Indicate In Section 1.	AND HYDROLG ators: nundated saturated in Upp Vater Marks	OGY INDICATOR	RS
Percent of Dominant Species that a Remarks CHARIA Met IYDROLOGY Recorded Data (Describe i Stream, Lake, or Tide i Aerial Photographs Other No Recorded Data Availab	n Remarks) Gauge	SW, or FAC (e	WETL Primary Indicate In Section 1	AND HYDROLG ators: nundated saturated in Upp Vater Marks Orift Lines Sediment Depos Orainage Patter	OGY INDICATOR per 12 Inches sits ns in Wetlands	RS
Percent of Dominant Species that a Remarks CHACTIA Met IYDROLOGY Recorded Data (Describe i Aerial Photographs Other No Recorded Data Availab	n Remarks) Gauge	EW, or FAC (e	WETL Primary Indicate In Secondary In Secon	AND HYDROLO ators; nundated raturated in Upp Vater Marks Orift Lines Sediment Depos Orainage Patter	OGY INDICATOR per 12 Inches sits ns in Wetlands nore Required):	
Percent of Dominant Species that a Remarks CHACTIA Met IYDROLOGY Recorded Data (Describe i Stream, Lake, or Tide of Aerial Photographs Other No Recorded Data Availate FIELD OBSERV Depth of Surface Water	n Remarks) Gauge ble	Ø (ir	WETL Primary Indicates Secondary In Secondary II Secondary In Secondary In Secondary In Secondary In Secondary II Second	AND HYDROLO ators; nundated raturated in Upp Vater Marks Orift Lines Sediment Depos Orainage Patter	OGY INDICATOR per 12 Inches sits ns in Wetlands hore Required): Channels in Uppe	
Percent of Dominant Species that a Remarks CHARIA Met IYDROLOGY Recorded Data (Describe i Stream, Lake, or Tide i Aerial Photographs Other No Recorded Data Availate FIELD OBSERV	n Remarks) Gauge ble	<i>i</i> ×	WETL Primary Indicate Secondary In Secondary In O O O O O O O O O O O O O	AND HYDROLG ators: nundated saturated in Upp Vater Marks Orift Lines Sediment Depos Orainage Pattern dicators (2 or modulized Root C	OGY INDICATOR per 12 Inches sits ns in Wetlands nore Required): Channels in Uppe	
Recorded Data (Describe i Stream, Lake, or Tide Aerial Photographs Other No Recorded Data Availate FIELD OBSERV Depth of Surface Water	n Remarks) Gauge ble	Ø (ir	WETL Primary Indicate Secondary In Secondary In O Secondary In O Secondary In O O O O O O O O O O O O O	AND HYDROLO ators: nundated raturated in Upp Vater Marks Orift Lines Sediment Depos Orainage Pattern dicators (2 or monoxidized Root Control Vater-Stained L	OGY INDICATOR per 12 Inches sits ns in Wetlands nore Required): Channels in Uppe	

Criteria met.

(1987 COE Wetlands Delineation Manual)

Project/Site Ione Casi	inn Prof	ect	The state of the s		Date	11	/19/03	3	
Applicant / Owner					County	An	ador		
Investigator G.O. Graening	. John	Howe, J.	sho Mille	2	State	CA	Dictor		
Do Normal Circumstances exist or			(YES)	NO	Commu	40 1 1			
Is the site significantly disturbed (A	typical Situati	ion)?	YES	(OM)	Transec	tID Ve	no Swal	o F	of landin
Is the area a potential Problem Are	ea? (If needed, e	explain on reverse	e) YES	NO	Plot ID	TH	P7_		28
									~ 0
VEGETATION									
Dominant Plant Species	Stratum	Indicator		nant Pl	ant Speci	es	Stratur	m	Indicator
1 Hemizonia tasciculada	H	NOL	9				-	_	
2 Vulpia myutes	H	FACU*	10						
3	-		11						
4			12				-	_	
5			13						
6			14						
7			15						
			16						
Percent of Dominant Species that a Remarks Criteria not m		L CW, or FAC (e	xcluding FA0	D-)	0/2	=0	%		
Percent of Dominant Species that a Remarks		L CW, or FAC (e	xcluding FA0	D-)	0/2	=0	16		
Percent of Dominant Species that a Remarks		L CW, or FAC (e	xcluding FA0	G-)	0/2	=0	%		
Percent of Dominant Species that a Remarks Chitchia not he HYDROLOGY Recorded Data (Describe Stream, Lake, or Tide	in Remarks)	L CW, or FAC (e		VETLA Indicat	ND HYDI		Y INDICAT	TOR	S
Percent of Dominant Species that a Remarks Chitchia hot ho HYDROLOGY Recorded Data (Describe Stream, Lake, or Tide Aerial Photographs	in Remarks)	CW, or FAC (e	V	VETLA Indicat	ND HYDI tors: undated	ROLOG			S
Percent of Dominant Species that a Remarks Chitchia not he HYDROLOGY Recorded Data (Describe Stream, Lake, or Tide	in Remarks)	L CW, or FAC (e	V	VETLA Indicat Inu Inu Sa Wi	ND HYDI tors: undated uturated ir ater Mark	ROLOG	Y INDICAT		S
Percent of Dominant Species that a Remarks Chitchia hot ha HYDROLOGY Recorded Data (Describe Stream, Lake, or Tide Aerial Photographs Other	in Remarks)	L CW, or FAC (e	V	VETLA Indicat Included Include	ND HYDI tors: undated uturated in ater Mark ift Lines	ROLOG n Upper	Y INDICAT		S
Percent of Dominant Species that a Remarks Chileria not he HYDROLOGY Recorded Data (Describe Stream, Lake, or Tide Aerial Photographs Other No Recorded Data Availa	in Remarks) Gauge	L CW, or FAC (e	V	VETLA Indicat Inu Sa Wi Dr	ND HYDI tors: undated uturated in ater Mark ift Lines ediment D	ROLOG n Upper s eposits	Y INDICAT		S
Percent of Dominant Species that a Remarks Chitchia hot ha HYDROLOGY Recorded Data (Describe Stream, Lake, or Tide Aerial Photographs Other	in Remarks) Gauge	CW, or FAC (e	V	VETLA Indicat Included Sa With the sa Dr Dr Dr Dr	ND HYDI tors: undated iturated in ater Mark ift Lines ediment D ainage Pa	ROLOG n Upper s eposits atterns in	Y INDICAT	S	S
Percent of Dominant Species that a Remarks Chileria not he HYDROLOGY Recorded Data (Describe Stream, Lake, or Tide Aerial Photographs Other No Recorded Data Availa	in Remarks) Gauge	EW, or FAC (e	Primary	VETLA Indicat Inu Sa Wi Dr Se Dr	ND HYDI tors: undated uturated in ater Mark ift Lines ediment D ainage Pa	ROLOG Deposits eposits atterns in	Y INDICAT	s)):	
Percent of Dominant Species that a Remarks Chiteria not he HYDROLOGY Recorded Data (Describe Stream, Lake, or Tide Aerial Photographs Other No Recorded Data Availa FIELD OBSERV	in Remarks) Gauge ble /ATIONS	<i>F</i>	Vi Primary Seconda	VETLA Indicat Inu Sa VETLA Inu Sa VETL	ND HYDI tors: undated uturated in ater Mark ift Lines ediment D ainage Pa	ROLOG Deposits atterns in or more bot Char	Y INDICAT 12 Inches a Wetlands Required anels in Up	s)):	

No indicators apparent.

Map Unit Name (Serie Taxonomy (Subgroup) Depth (inches)		- CACHERMEN Chil	And in Late Par I A A M.				
Depth (inches))	U	Field Observations Confirm Mapped Type? YES NO				
(inches)				Committi Mapped Type	P TES INO		
(inches)			ILE DESCRIPTION	NA - 441	T		
0-8	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretion Structure, etc.		
	A	2.5 Y 5/4	N/A	hone	Elay loam		
		HYDRIC	SOIL INDICATORS:				
☐ Gleyed or Low Remarks:				Explain in Remarks)			
Criteri	a hot m	it. Slate	bedrack is	near the grow	nd surface.		
			bedrack is	near the grow	nd surface.		
/ETLAND DETER	MINATION		bedrack is	near the grow	nd surface.		
VETLAND DETER Hydrophytic Vegetatio Wetland Hydrology Pr	MINATION on Present?			near the gran			

(1987 COE Wetlands Delineation Manual)

	CONTRACTOR OF THE PARTY OF THE		The second secon	1000000	The state of the s	THE RESERVE THE PERSON NAMED IN	7	
Project/Site Ione Casino Project					Date	11/	19/03	
Applicant / Owner					County	An	nador	
Investigator 6.0. Graening	John Ho	we, John	Milk	h-	State	Cf		
Do Normal Circumstances exist on		,	(YES	S) NO	Community	ID		
s the site significantly disturbed (Atypical Situation)?					Transect ID	Ver	nal Swale	Notl
Is the area a potential Problem Are	ne area a potential Problem Area? (If needed, explain on reverse)			s (NO)	Plot ID		513	
								C DANKET HAT AND AND AND THE STREET
'EGETATION	T	T						
Dominant Plant Species	Stratum	Indicator		minant P	lant Species		Stratum	Indicator
1 Etyngium Castrense	H	FACW	9					
2 Lythrum hyssopifolium	H	FACW	10					
3 Hemizonia fasciculada	H	NOL	11					
4 Vulpia myutos	14	FACUX	12					
5			13					
6			14					
_			15					
7								
8 Percent of Dominant Species that a Remarks Criferia			16 xcluding F	FAC-)	2/4	13	50%	
8 Percent of Dominant Species that a Remarks				FAC-)	2/4	=	50%	
8 Percent of Dominant Species that a Remarks				FAC-)	2/4	3	50%	
Percent of Dominant Species that a Remarks Criferia. HYDROLOGY Recorded Data (Describe i Stream, Lake, or Tide Aerial Photographs Other	no I me I		xcluding F	WETLA ary Indica In Si W	undated aturated in U /ater Marks rift Lines	LOGY	INDICATOR	RS
Percent of Dominant Species that a Remarks Criferia. HYDROLOGY Recorded Data (Describe in Aerial Photographs Other No Recorded Data Available	hod med in Remarks) Gauge		xcluding F	WETLA ary Indica In Si W D S	ators: undated aturated in U ater Marks rift Lines ediment Dep	DLOGY	INDICATOR 2 Inches	RS
Percent of Dominant Species that a Remarks Criferia. HYDROLOGY Recorded Data (Describe i Stream, Lake, or Tide Aerial Photographs Other	hod med in Remarks) Gauge		xcluding F	WETLA ary Indica In Si W D S	ators: undated aturated in U ater Marks rift Lines	DLOGY	INDICATOR 2 Inches	RS
Percent of Dominant Species that a Remarks Criferia. HYDROLOGY Recorded Data (Describe in Aerial Photographs Other No Recorded Data Available	hod med in Remarks) Gauge		Prima	WETLA ary Indica In Si W D Si D ndary Ind	ators: undated aturated in U ater Marks rift Lines ediment Dep	pper 12 osits erns in more F	INDICATOR 2 Inches Wetlands Required):	
Percent of Dominant Species that a Remarks Criferia. HYDROLOGY Recorded Data (Describe in Lake, or Tide Lake) Aerial Photographs Other No Recorded Data Availal FIELD OBSERV	nofmet in Remarks) Gauge ble /ATIONS		Prima	WETLA ary Indica In Si Si Si O O O O O O O O O O O O O O O	ators: undated aturated in U ater Marks rift Lines ediment Dep rainage Patte	osits erns in the more F Chann Leave	INDICATOR 2 Inches Wetlands Required): tels in Upper	

Criteria not met.

-	
(,	1.7
.)	1 3
-	

Taxonomy (Subgr Depth (inches)		- Exchequer and A	when loan; 3to	Drainage Class: 心水(estively oftained
	roup)	C		Confirm Mapped Type	? YES NO
		PROFIL	E DESCRIPTION		
(11101103)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-8	A	2.5 Y 5/4	N/A	hone	Sandy loan
8-10	B	2.5 Y 4/4	N/f)	nine	Clay loan
					/
		HYDRIC	SOIL INDICATORS:		
Reducing		ors	Organic Listed or	ganic Content in Surfact Streaking in Sandy Soin Local Hydric Soils List In National Hydric Soils Ixplain in Remarks)	ds t
<i>UF1</i> +1	eria hot m	£7			
A STATE OF THE PARTY OF THE PAR	TERMINATION				
Hydrophytic Vege		YES (NO)			
Wetland Hydrolog		YES (NO)	Is this Sampling P	oint Within a Wetland?	YES (NO)
Hydric Soils Pres	ent?	YES (NO)			
Remarks					

(1987 COE Wetlands Delineation Manual)

Project/Site Ione Casin		Date	1/19/03			
Applicant / Owner		County	1 mador			
Investigator 6.0. Graening, John Howe, John Miller				State CA		
Do Normal Circumstances exist on the site? YES NO				Community ID		
Is the site significantly disturbed (Atypical Situation)?				Transect ID V	ernal poil E	of Hur 4
s the area a potential Problem Area? (If needed, explain on reverse)) YES (NO)	Plot ID	514	
					THE CHICAGO OF TAXABLE AND	
EGETATION						
Dominant Plant Species	Stratum	Indicator	Dominant F	Plant Species	Stratum	Indicator
1 Eleocharis macro stackya.	H	OBL	9			
2 Etynglum Castrense	H	FACW	10			
3			11			
4			12			
5			13	Ta.		
6			14			
7			15			
8			16			
Percent of Dominant Species that ar Remarks Criteria, met.	e OBL, FAC	CW, or FAC (excluding FAC-)	2/2 = 10	00%	
Percent of Dominant Species that ar Remarks	e OBL, FAC	CW, or FAC (excluding FAC-)	2/2 = 10	00%	
Percent of Dominant Species that ar Remarks	e OBL, FAC	CW, or FAC (excluding FAC-)	2/2 = 10	00%	
Percent of Dominant Species that ar Remarks Criteria met HYDROLOGY		CW, or FAC (2/2 = /1		RS
Percent of Dominant Species that ar Remarks Criteria met HYDROLOGY Recorded Data (Describe in	n Remarks)	CW, or FAC (AND HYDROLO		RS
Percent of Dominant Species that ar Remarks Criferia met HYDROLOGY Recorded Data (Describe in Stream, Lake, or Tide C	n Remarks)	CW, or FAC (WETL Primary Indic	.AND HYDROLO eators: nundated	OGY INDICATO	RS
Percent of Dominant Species that ar Remarks Criteria met HYDROLOGY Recorded Data (Describe in Stream, Lake, or Tide Control Aerial Photographs	n Remarks)	CW, or FAC (WETL Primary Indic	AND HYDROLO ators: nundated Saturated in Uppe	OGY INDICATO	RS
Percent of Dominant Species that ar Remarks Criteria met HYDROLOGY Recorded Data (Describe in Stream, Lake, or Tide Compared	n Remarks)	CW, or FAC (WETL Primary Indic	AND HYDROLO ators: nundated Saturated in Uppe Water Marks	OGY INDICATO	RS
Percent of Dominant Species that ar Remarks Criteria met HYDROLOGY Recorded Data (Describe in Aerial Photographs Other	n Remarks) Sauge	CW, or FAC (WETL Primary Indic	AND HYDROLO ators: nundated Saturated in Upper Water Marks Drift Lines	OGY INDICATO	RS
Percent of Dominant Species that ar Remarks Criteria met HYDROLOGY Recorded Data (Describe in Stream, Lake, or Tide Control Aerial Photographs	n Remarks) Sauge Ie	CW, or FAC (WETL Primary Indic	AND HYDROLO ators: nundated Saturated in Uppe Water Marks	OGY INDICATO	RS
Percent of Dominant Species that ar Remarks Criteria met HYDROLOGY Recorded Data (Describe in Aerial Photographs Other No Recorded Data Availab FIELD OBSERVA	n Remarks) Sauge Ie		WETL Primary Indic	AND HYDROLO ators: nundated Saturated in Upper Water Marks Drift Lines	er 12 Inches	RS
Percent of Dominant Species that ar Remarks Criteria met HYDROLOGY Recorded Data (Describe in Aerial Photographs Other No Recorded Data Availab	n Remarks) Sauge Ie		WETL Primary Indic	AND HYDROLO cators: nundated Saturated in Upper Water Marks Drift Lines Sediment Deposit Drainage Patterns adicators (2 or mo	er 12 Inches its s in Wetlands ore Required): nannels in Uppe	
Percent of Dominant Species that ar Remarks Criteria met HYDROLOGY Recorded Data (Describe in Aerial Photographs Other No Recorded Data Availab FIELD OBSERVA	n Remarks) Gauge Ie	Ø (i	WETL Primary Indic	AND HYDROLO cators: nundated Saturated in Upper Water Marks Drift Lines Sediment Deposit Drainage Patterns	er 12 Inches its s in Wetlands ore Required): nannels in Uppe	

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

SOILS	8			to 31 percent slop	12 S14		
Map Unit Name (S	eries and Phase):	Exchequer and	Auburn loan, 3	Drainage Class: (X)	essively drained		
Taxonomy (Subgro		V	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	2.5Y 4/3	N/A	hohe	Clay loam		
					,		
		LIVERIC	SOIL INDICATORS:				
		HYDRIC	SOIL INDICATORS:				
☐ Histosol			☐ Concret				
☐ Histic Epip				ganic Content in Surface			
☐ Sulfidic Oc				Streaking in Sandy Soil			
	ture Regime			n Local Hydric Soils List			
Reducing (n National Hydric Soils L	ist		
	Low-Chroma Colo	rs	Uther (E	Explain in Remarks)			
Remarks:	ĵ	1					
67-14	lería not m	et.					
01	1 1 . 1 . 1	is hear sur	ľ				
210	te bedrock	15 Mear Sur	-tad_				
AVETI AND DET	EDMINIATION.						
WETLAND DET		(FO) NO					
Hydrophytic Veget		(FES) NO	_ la Maia O annullia a F) - 1 - 1 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	VF0 (110)		
Wetland Hydrology		(YES) NO	is this Sampling P	Point Within a Wetland?	YES (NO)		
Hydric Soils Prese	nt?	YES (NO)					
Remarks							
	- \	7	j				
	site is a	a vernal q	2001-				
		J					

(1987 COE Wetlands Delineation Manual)

Project/Site Tone Cacina	Date 11/	19/03				
Applicant / Owner				County Amador		
Investigator G.O. Grathing, J	ab Halso	John	Willer	State C.A	MAMOR	
Do Normal Circumstances exist on	the site?	1 0000	(YES) NO	Community ID		
Is the site significantly disturbed (At		on)?	YES NO		orth stici	4 00 1
Is the area a potential Problem Area? (If needed, explain on reverse)					515	c pond
is the died a potential i resistant resistant	1. (1111000001, 0	mpiani on rovoro			313	
VEGETATION						
Dominant Plant Species	Stratum	Indicator	Dominant F	Plant Species	Stratum	Indicator
1 Eleocharis macrostachya	H	OBL	9			
2	1		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 (excluding FAC-)	1/1 = 100	%	
Criteria met.						
HYDROLOGY						
D Beauted Data (Describe i	n Domorko)		WETL	AND HYDROLOG	Y INDICATOR	RS
Recorded Data (Describe in			Primary Indic	ators:	100ff from	515
Stream, Lake, or Tide	Gauge			ilulidated >		, 515
☐ Aerial Photographs ☐ Other				Saturated in Upper	12 Inches	
Li Other				Water Marks		
No Recorded Data Availab	ole			Orift Lines Sediment Deposits		
FIELD OBSERV				Drainage Patterns i	n Wetlands	
TILLE CHOLING	A110110	12 *	-	1 2		
Depth of Surface Water		12 (ii	1)	ndicators (2 or more Oxidized Root Cha		r 12 Inches
Depth to Free Water in Pit		>12 (ii	2)	Water-Stained Lea Local Soil Survey D		
Depth to Saturated Soil	,	> 12. (i		FAC-Neutral Test Other (Explain in R	emarks)	

Criteria met.

SOILS				to 31 percent slope	5 515
Map Unit Name (S	eries and Phase):	Exchequer and	Auburn Joan, 3	Drainage Class: ()%	cessively drained
Taxonomy (Subgro		V		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.
0-12	A	2.5 Y 5/4	2.5 Y 4/4	faint	clay loam
					/
	(4)	HYDDIC	SOIL INDICATORS:		
П		HIDRIC			
☐ Histosol			☐ Concret		
☐ Histic Epip				ganic Content in Surface	
Sulfidic Od			☐ Organic	Streaking in Sandy Soil	s
☐ Aquic Mois	sture Regime		Listed o	n Local Hydric Soils List	t
Reducing (Conditions		☐ Listed o	n National Hydric Soils I	List
☐ Gleyed or I	Low-Chroma Colo	rs	Other (E	Explain in Remarks)	
CIP	Heria hot n				
ETLAND DET	ERMINATION				
Hydrophytic Veget	ation Present?	YES NO			
Wetland Hydrology	y Present?	(YES) NO	Is this Sampling P	oint Within a Wetland?	YES (NO)
Hydric Soils Prese	nt?	YES NO			
Remarks					
7	his is a	. Stock p	ond with h	ydrophylic U	regetation_

(1987 COE Wetlands Delineation Manual)

Project/Site Ione Casin	Pinie	r+		Date /	19/03	
Applicant / Owner	County Ar	nador				
Investigator 6.0. Graening	John	Howe, J	ohn Miller	State CA	7	
Do Normal Circumstances exist on		1000 / -	(YES) NO	Community ID	1	
Is the site significantly disturbed (Aty		on)?	YES (NO)	Transect ID Se	en at lasse	of dan
Is the area a potential Problem Area				Plot ID	516	UT VIVIA
		CONTROL OF THE PARTY OF THE PAR			370	
VEGETATION			¥			
Dominant Plant Species	Stratum	Indicator	Dominant P	lant Species	Stratum	Indicator
1 Eleocharis macrostachya	H	OBL	9			
2 Juneus baltieus	H	OBL	10			
3 Mentha pulegiana	H	OBL_	11			
4			12			
5			13			
6			14			
7			15			
8			16			
Percent of Dominant Species that a	re OBL FAC	CW or FAC (excluding FAC-)	3/3 = 100	10/	
		***************************************				BLACK SOFT OF SORT OF SORT AND ADDRESS OF SORT
HYDROLOGY						
	D 1.		WETL	AND HYDROLOG	GY INDICATOR	RS
Recorded Data (Describe in	•		Primary Indic	ators:		
☐ Stream, Lake, or Tide	Gauge		Ir	nundated		
☐ Aerial Photographs				Saturated in Upper	r 12 Inches	
☐ Other				Vater Marks		
No Recorded Data Availab	alo.			Orift Lines		
				Sediment Deposits		
FIELD OBSERV	ATIONS			Orainage Patterns	in Wetlands	
Depth of Surface Water		Ø (i	11)	dicators (2 or mo		r 12 Inches
Depth to Free Water in Pit		>12 (1	n)	Water-Stained Lea		
Depth to Saturated Soil		>12 (FAC-Neutral Test Other (Explain in F		
	77				· · · · · · · · · · · · · · · · · · ·	

OBL species suggest that hydrology is present at other times in the year.

OILS				or percent stopes	. 0
Map Unit Name (Se	eries and Phase)	Exchequir and A	uburn loam, 3 to	Drainage Class: 270	estively drained
Taxonomy (Subgro				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.
0-12	A	2.5Y 5/4	N/A	none	clay loam
		-			
		-			
		HYDRIC	SOIL INDICATORS:		
Reducing 0	or ture Regime	ors	Organic Listed of	ions ganic Content in Surface Streaking in Sandy Soil n Local Hydric Soils List n National Hydric Soils I Explain in Remarks)	s
	via not me ound level-	t. Slate	bedrock is to	and 1-foot b	elow the
/ETLAND DETE	ERMINATION				The second of th
			1		

Hydrophytic Vegetation Present?	YES NO	
Wetland Hydrology Present?	(YES) NO	Is this Sampling Point Within a Wetland? YES (NO)
Hydric Soils Present?	YES NO	
OBL Specie. Present, however, a recent origin-	Lindicate the lack for this s	that forcing hydrology is of hydric Soils suggest seep.

(1987 COE Wetlands Delineation Manual)

Project/Site Ione Ca		Date /	11/25	103			
Applicant / Owner		7-3-7-		County	Amad	or	
nvestigator John Howe	, John	Miller		State	CA		
Do Normal Circumstances exist on			(YES) NO	Community	ID		
s the site significantly disturbed (At	ypical Situati	on)?	YES NO	Transect ID	NWT	rib Dry	Cr. NNE 6
s the area a potential Problem Are	a? (If needed, e	xplain on revers	se) YES (NO)	Plot ID	51	7	
		Andrew State of State		THE PARTY OF THE P	-		
EGETATION		-			поставления устания		
Dominant Plant Species	Stratum	Indicator	Dominant P	lant Species	S	stratum	Indicator
1 Aesculus californica	S	NOL	9				
Claytonia parviflora	H	FAC	10				
3			11				
1			12				
5			13				
3			14				
7			15				
8			16				
)							
Percent of Dominant Species that a		W, or FAC (excluding FAC-)	1/2 = 9	50%		
Percent of Dominant Species that a Remarks Chiteria hot		CW, or FAC (excluding FAC-)	1/2 = 9	50%		
Percent of Dominant Species that a Remarks Chiteria hot		CW, or FAC (excluding FAC-)	1/2_ = 9	50%		
Percent of Dominant Species that a Remarks Chiteria hot YDROLOGY	met.	EW, or FAC ($1/2_{-} = 9$ AND HYDROL		DICATOR	RS
Percent of Dominant Species that a Remarks Chiteria hot YDROLOGY Recorded Data (Describe)	med.	SW, or FAC (WETL,	AND HYDROL		DICATOR	RS
Percent of Dominant Species that a Remarks Chiteria hot YDROLOGY Recorded Data (Describe i	med.	EW, or FAC (WETL.	AND HYDROL ators: nundated	LOGY IN		RS
Percent of Dominant Species that a Remarks Chiteria hot YDROLOGY Recorded Data (Describe i Stream, Lake, or Tide Aerial Photographs	med.	EW, or FAC (WETL. Primary Indica	AND HYDROL ators: nundated saturated in Up	LOGY IN		RS
Percent of Dominant Species that a Remarks Chiteria hot YDROLOGY Recorded Data (Describe i	med.	EW, or FAC (WETL. Primary Indica Ir	AND HYDROL ators: nundated saturated in Up Vater Marks	LOGY IN		RS
Percent of Dominant Species that a Remarks Chiteria hot YDROLOGY Recorded Data (Describe i Stream, Lake, or Tide Aerial Photographs Other	med.	EW, or FAC (WETL/ Primary Indica Ir	AND HYDROL ators: nundated saturated in Up Vater Marks Orift Lines	LOGY IN		RS
Percent of Dominant Species that a Remarks Chiteria hot IYDROLOGY Recorded Data (Describe in Aerial Photographs Other No Recorded Data Availa	med. n Remarks) Gauge	EW, or FAC (WETL. Primary Indica Ir	AND HYDROL ators: nundated saturated in Up Vater Marks Orift Lines Sediment Depo	LOGY IN	nches	RS
Percent of Dominant Species that a Remarks Chiteria hot YDROLOGY Recorded Data (Describe i Stream, Lake, or Tide Aerial Photographs Other	med. n Remarks) Gauge	EW, or FAC (WETL. Primary Indica Ir	AND HYDROL ators: nundated saturated in Up Vater Marks Orift Lines	LOGY IN	nches	RS
Percent of Dominant Species that a Remarks Chiteria hot YDROLOGY Recorded Data (Describe in Aerial Photographs Other No Recorded Data Availant	med. n Remarks) Gauge	·×	WETL. Primary Indica Ir S V S O O O O O O O O O O O O O O O O O	AND HYDROL ators: nundated in Up Vater Marks Orift Lines Sediment Depo	LOGY IN oper 12 In osits rns in We	etlands	
Percent of Dominant Species that a Remarks Chiteria hot YDROLOGY Recorded Data (Describe in Aerial Photographs Other No Recorded Data Availant	med. n Remarks) Gauge	·×	WETL. Primary Indica Ir S V S O O O O O O O O O O O O O O O O O	AND HYDROL ators: nundated saturated in Up Vater Marks orift Lines sediment Deporationage Patter dicators (2 or reconstitution of the control	DOGY INDOSits This in Westerns in Western	etlands	
Percent of Dominant Species that a Remarks Chiteria hoteleter in hote	med. n Remarks) Gauge	Ø (i	WETL. Primary Indica Ir S V S O S O O O O O O O O O O	AND HYDROL ators: nundated in Up Vater Marks Oriff Lines Sediment Deporainage Patter dicators (2 or red)	Doper 12 In Dosits In Sin We work the Channels Leaves	etlands	
Percent of Dominant Species that a Remarks Chiteria hot IYDROLOGY Recorded Data (Describe in Aerial Photographs Other No Recorded Data Availa	med. n Remarks) Gauge	Ø	WETL. Primary Indica In S V S V C N Secondary In V C V C N C C C C C C C C C C C C C C C	AND HYDROL ators: nundated saturated in Up Vater Marks Orift Lines Sediment Depo Orainage Patter dicators (2 or red) available Root (3 or red) available Root (4 or red) available Root (4 or red) available Root (5 or red) available Root (6 or red) available Root (6 or red) available Root (7 or red) available Root (8 or red) avail	Doper 12 In Dosits In The Channels Leaves The Channels Leaves The Channels The Chan	etlands	
Percent of Dominant Species that a Remarks Chitchia hoteletic hot	med. n Remarks) Gauge	Ø (I	WETL. Primary Indica Ir S V In S V In S C In Secondary In C In C In	AND HYDROL ators: nundated in Up Vater Marks Oriff Lines Sediment Deporainage Patter dicators (2 or red)	Doper 12 In Doper	etlands quired): s in Uppe	

Map Unit Name (Se	eries and Phase)	Exchequer very	rocky sill leam,	1 to 51 perant sto	
Taxonomy (Subgro		- Longitt V - 1		Confirm Mapped Type?	
		PROFIL	_E DESCRIPTION		
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions Structure, etc.
		8			
		HYDRIC	SOIL INDICATORS:		
	ture Regime			Streaking in Sandy Soils Local Hydric Soils List	
Gleyed or L	Conditions Ow-Chroma Colo Opit Was	ors Excavaled he	Listed or Other (E	n National Hydric Soils Lix (xplain in Remarks)	
Gleyed or L	ow-Chroma Colo	excavaled he	Listed or Other (E	n National Hydric Soils L	
Gleyed or Leading Gleyed Gleyed or Leading Gleyed Gleyed or Leading Gleyed Gley	ow-Chroma Cold o pit was ERMINATION tion Present? Present?		Listed on Other (E	n National Hydric Soils L	
Gleyed or Leading Semarks: ETLAND DETENDED STATES	eRMINATION tion Present? Present?	YES NO	Listed on Other (E	n National Hydric Soils L Explain in Remarks)	List
Gleyed or Leading Semarks: ETLAND DETENDED STATES	eRMINATION tion Present? Present?	YES NO YES NO	Listed on Other (E	n National Hydric Soils L Explain in Remarks)	List
Gleyed or Leading Semarks: ETLAND DETENDED STATES	eRMINATION tion Present? Present?	YES NO YES NO	Listed on Other (E	n National Hydric Soils L Explain in Remarks)	ist

(1987 COE Wetlands Delineation Manual)

Project/Site Ione Cas	ino Proj	Pet		Date	125/03	
Applicant / Owner	V			County	Amador	
Investigator John How	ve , Joh	In Mille	·	State	CA	
Do Normal Circumstances exist on	/		(YES) NO	Community ID		
Is the site significantly disturbed (At	typical Situati	on)?	YES NO	Transect ID N	WTrib Dryl	Cr. main
Is the area a potential Problem Area	a? (If needed, e	xplain on reverse	YES NO	Plot ID	518	
/EGETATION						
Dominant Plant Species	Stratum	Indicator	Dominant	Plant Species	Stratum	Indicator
1 Aesculus Californica	5	NOL	9			
2 Carduus pychocephaluz	Ц	NOL	10			
3 Claytonia parviflora	H	FAC	11			
4 Bromus Carinalus	H	NOL	12			
5 Avena fatua	H	NOL	13			
6 Anthrisinz Caucaliz	H	NOL	14			
7			15			
8			16	4		
Percent of Dominant Species that a	re OBL, FAC	W, or FAC (e	xcluding FAC-)	1/6 =	17%	
Remarks				17	•	
HYDROLOGY		and the second second second second				5-00-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
	MONTH PROPERTY CONTRACTOR OF THE PARTY OF TH		WETI	_AND HYDROLO	GY INDICATOR	RS
Recorded Data (Describe i	n Remarks)		Primary India		011101011101	
Stream, Lake, or Tide	Gauge			nundated		
Aerial Photographs				Saturated in Uppe	er 12 Inches	
☐ Other				Water Marks		
No Recorded Data Availab	nle			Drift Lines		
FIELD OBSERV		***************************************	- Innered	Sediment Deposit Drainage Patterns		
FIELD OBSERV	ATIONS		_	Drainage Patterns	s in vveuands	
Depth of Surface Water		\emptyset (in		ndicators (2 or mo		
		1		Oxidized Root Ch		r 12 Inches
Depth to Free Water in Pit		N/A (in		Water-Stained Le Local Soil Survey		
				FAC-Neutral Test		
		. 1		FAC-Neural lesi		
Depth to Saturated Soil		N/A (ir		Other (Explain in		

Map Unit Name (Se	eries and Phase): 🕻	Exchequer very i	ocky siltlam,	Drainage Class: @x	cessively drained
Taxonomy (Subgro		1	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:		
Reducing Gleyed or Remarks:	sture Regime Conditions Low-Chroma Color	excavatil her	Listed on Listed on Other (E	Streaking in Sandy Soil n Local Hydric Soils List n National Hydric Soils L Explain in Remarks)	
VETLAND DET	THE RESERVE OF THE PERSON OF T	YES NO			
Wetland Hydrology Hydric Soils Prese		YES NO	Is this Sampling P	oint Within a Wetland?	YES NO
Remarks	ite is an	intermitte	nt channel.	à	

(1987 COE Wetlands Delineation Manual)

Project/Site Ione C	asino Pr	-oiect		Date	11/	25/03	
Applicant / Owner		- J		County	Am	ador	
Investigator Joh	n Howe	, John A	Miller	State		CA	
Do Normal Circumstances exist or		/	(YES) NO	Communit			
Is the site significantly disturbed (A	typical Situati	ion)?	YES (NO	Transect I	DNW	Trib Dry C	r. NESW
Is the area a potential Problem Are	a? (If needed, e	explain on revers	YES NO	Plot ID		519	
FOFTATION		remail y agrames Could have removed for pattern and the could have considered the could be considered to considered the considered the considered to considered the considered to considered the cons		and the second s			
EGETATION Dominant Plant Species	Stratum	Indicator	Dominant F	Plant Species	e	Stratum	Indicator
Λ Ο Ι	- II		9	Tant Opecies	3	Ottatum	Indicator
TIVENIA TATAK	H	NOL	10				
2 Taensatherum Caput-medus	il H	HOL	11				
3 Vulpia myuroL	H	FACU*	12				
5			13				
	-		14				
6							
7			15				
0			1 10				
Percent of Dominant Species that		L CW, or FAC (0/3	= 07	, б	
Percent of Dominant Species that Remarks		L CW, or FAC (0/3	= 07	δ	
Percent of Dominant Species that Remarks Criferia hof		L CW, or FAC (0/3	= 07	δ	
Percent of Dominant Species that Remarks Criferia hof HYDROLOGY	met-	LCW, or FAC (excluding FAC-)	∆/3 _AND HYDR			RS
Percent of Dominant Species that Remarks Criferia hof HYDROLOGY Recorded Data (Describe	met - in Remarks)	LCW, or FAC (WETL	_AND HYDR			RS
Percent of Dominant Species that Remarks Criftin hot HYDROLOGY Recorded Data (Describe Stream, Lake, or Tide	met - in Remarks)	L CW, or FAC (WETL Primary Indic	_AND HYDR cators: nundated	OLOGY	'INDICATOI	RS
Percent of Dominant Species that Remarks Criferia hof YDROLOGY Recorded Data (Describe Stream, Lake, or Tide Aerial Photographs	met - in Remarks)	LCW, or FAC (WETL Primary Indic	_AND HYDR cators: nundated Saturated in	OLOGY Upper 1	'INDICATOI	RS
Percent of Dominant Species that Remarks Criftin hot HYDROLOGY Recorded Data (Describe Stream, Lake, or Tide	met - in Remarks)	CW, or FAC (WETL Primary Indic	_AND HYDR cators: nundated Saturated in Water Marks	OLOGY Upper 1	'INDICATOI	RS
HYDROLOGY Recorded Data (Describe Stream, Lake, or Tide Aerial Photographs	met - in Remarks) Gauge	LCW, or FAC (WETL Primary Indic	AND HYDR cators; nundated Saturated in Water Marks Drift Lines	OLOGY Upper 1	'INDICATOI	RS
Percent of Dominant Species that Remarks Criferia hof HYDROLOGY Recorded Data (Describe Stream, Lake, or Tide Aerial Photographs Other	met - in Remarks) Gauge	CW, or FAC (WETL Primary Indic	_AND HYDR cators: nundated Saturated in Water Marks	OLOGY Upper 1	INDICATOR	RS
Percent of Dominant Species that Remarks Criftin hot HYDROLOGY Recorded Data (Describe Stream, Lake, or Tide Aerial Photographs Other No Recorded Data Availa	met - in Remarks) Gauge	CW, or FAC (i	WETL Primary Indic	AND HYDR cators: nundated Saturated in Water Marks Drift Lines Sediment De Drainage Patendicators (2 conditions)	OLOGY Upper 1 eposits tterns in	INDICATOR Inches Wetlands Required):	
Percent of Dominant Species that Remarks Criferia hof HYDROLOGY Recorded Data (Describe Stream, Lake, or Tide Aerial Photographs Other No Recorded Data Availa	met - in Remarks) Gauge	Ø (i	WETL Primary Indic Secondary Ir	AND HYDR cators: nundated Saturated in Water Marks Drift Lines Sediment De	OLOGY Upper 1 eposits tterns in or more ot Chan	2 Inches Wetlands Required): nels in Uppe	

No indicators apparent -

A THE RESIDENCE OF THE PARTY OF			leams, 31 to 51 percent slepu. SIC					
Map Unit Name (S	eries and Phase)	: Exchequir and A	Auburn very rocky Drainage Class: excessively drained					
Taxonomy (Subgro	oup)	V	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, Concretion Structure, etc.			
Name of the Control o								
		HYDRIC	SOIL INDICATORS:					
☐ Histosol		THERIO						
	a dan		☐ Concret					
☐ Histic Epip				ganic Content in Surface				
				Streaking in Sandy Soils				
	sture Regime			n Local Hydric Soils List				
	Conditions		Listed o	n National Hydric Soils L	ist			
			011 /5					
Remarks:	Dif lugs			xplain in Remarks)				
Remarks:	pit was e	exeavated here		xplain in Remarks)				
Remarks: No	pit was e	exeavated here		xplain in Remarks)				
Remarks: \(\int \(\right) \) \(\text{ETLAND DET} \) Hydrophytic Veget	pit was e	exeavated here						
Remarks: \(\int \(\right) \) \(\text{ETLAND DET} \) Hydrophytic Veget	pit was e	exeavated here		explain in Remarks)	YES NO			
Remarks: VETLAND DET Hydrophytic Veget Wetland Hydrology Hydric Soils Prese	Pit was e ERMINATION ation Present? y Present?	exeavated here			YES NO			
Remarks: VETLAND DET Hydrophytic Veget Wetland Hydrology Hydric Soils Prese	Pit was e ERMINATION ation Present? y Present?	exeavated here YES NO YES NO			YES NO			
Remarks: Do ETLAND DET Hydrophytic Veget Wetland Hydrology Hydric Soils Prese	Pid was e ERMINATION ation Present? y Present? nt?	exeavated here YES NO YES NO	Is this Sampling P		YES NO			
Remarks: Do ETLAND DET Hydrophytic Veget Wetland Hydrology Hydric Soils Prese	Pid was e ERMINATION ation Present? y Present? nt?	exequated here YES NO YES NO YES NO	Is this Sampling P		YES NO			
Remarks: Do ETLAND DET Hydrophytic Veget Wetland Hydrology Hydric Soils Prese	Pid was e ERMINATION ation Present? y Present? nt?	exequated here YES NO YES NO YES NO	Is this Sampling P		YES NO			
Remarks: VETLAND DET Hydrophytic Veget Wetland Hydrology	Pid was e ERMINATION ation Present? y Present? nt?	exequated here YES NO YES NO YES NO	Is this Sampling P		YES NO			
ETLAND DET Hydrophytic Veget Wetland Hydrology	Pid was e ERMINATION ation Present? y Present? nt?	exequated here YES NO YES NO YES NO	Is this Sampling P		YES NO			
Remarks: Do ETLAND DET Hydrophytic Veget Wetland Hydrology Hydric Soils Prese	Pid was e ERMINATION ation Present? y Present? nt?	exequated here YES NO YES NO YES NO	Is this Sampling P		YES NO			

(1987 COE Wetlands Delineation Manual)

						11/2		
Project/Site Ione Casi	no Proj	Done casmo 170 year						
Applicant / Owner					County	Ama	dor	
Investigator John Hou	we, J	Ohn Mi	ller		State	C	A	
Do Normal Circumstances exist on	the site?		(YES NO	Community	y ID		
Is the site significantly disturbed (Aty	ypical Situatio	on)?		YES NO	Transect I	NW	Trib Dry	CH. ENE
Is the area a potential Problem Area	a? (If needed, e	xplain on rever	se)	YES NO	Plot ID	S	20	
/FOFTATION						COURSE AND THE SPECIAL PROPERTY.		
/EGETATION Dominant Plant Species	Stratum	Indicator	T	Dominant D	ont Chooling		Charles	1
^ /	T		9	Dominant P	ant species		Stratum	Indicator
1 Pinus Sabiniana	11	NOL	10					
2 Carduus pychocephalus 3 Taeniatherum caput-medusae	-H	NOL	-					
	H	NOL	11	***				
4 Cynosurus echinatus	H	NOL	12					
5 Vulpia myutos	H	FACUX						
6			14					
7			15					
8			16					
	001 -10	1A/ EAO			HIE	=01	/,	
Percent of Dominant Species that an Remarks Chileria No		VV, OF FAC	exclud	ing FAC-)	0/3	- 01	6	
Remarks CHARFIA No-		vv, or FAC (exclud	ing FAC-)	0/3	- 07	6	
CHARIA no		vv, or FAC (exclud	ing FAC-)	0/3	- 07	6	
Remarks Chileria no	t met.	vv, or FAC (exclud		ND HYDRO			RS
Remarks Chileria hor HYDROLOGY Recorded Data (Describe in	i Met.	vv, or FAC (WETLA	AND HYDRO			RS
HYDROLOGY Recorded Data (Describe in Stream, Lake, or Tide C	i Met.	vv, or FAC (WETLA	AND HYDRO tors: undated	DLOGY I	NDICATOR	RS
HYDROLOGY Recorded Data (Describe in Data Aerial Photographs	i Met.	vv, or FAC (WETLA Primary Indica ☐ In ☐ Sa	AND HYDRO tors: undated aturated in U	DLOGY I	NDICATOR	RS
HYDROLOGY Recorded Data (Describe in Stream, Lake, or Tide C	i Met.	vv, or FAC (WETLA Primary Indica In Sa	AND HYDRO tors; undated aturated in U	DLOGY I	NDICATOR	RS
HYDROLOGY Recorded Data (Describe in Data Aerial Photographs	n Remarks)	vv, or FAC (WETLA Primary Indica In Sa W D	AND HYDRO tors: undated aturated in U ater Marks	DLOGY I Jpper 12	NDICATOR	RS
HYDROLOGY Recorded Data (Describe in Stream, Lake, or Tide Carriel Photographs Other No Recorded Data Availab	i Mei . n Remarks) Gauge	vv, or FAC (WETLA Primary Indica In Sa W D SS	AND HYDRO tors; undated aturated in U ater Marks rift Lines ediment Dep	DLOGY I Jpper 12	NDICATOR	RS
HYDROLOGY Recorded Data (Describe in Stream, Lake, or Tide Carriel Photographs Other	i Mei . n Remarks) Gauge	vv, or FAC (P	WETLA Primary Indica In Sa U Di	AND HYDRO tors: undated aturated in U ater Marks rift Lines ediment Dep	DLOGY I Jpper 12 posits erns in V	NDICATOR Inches	RS
HYDROLOGY Recorded Data (Describe in Stream, Lake, or Tide Carriel Photographs Other No Recorded Data Availab	i Mei . n Remarks) Gauge	~	P	WETLA Primary Indica In Sa W D Secondary Inc	AND HYDRO tors; undated ater Marks rift Lines ediment Deprainage Patt	DLOGY I Jpper 12 posits erns in V	NDICATOR Inches Vetlands Required):	
HYDROLOGY Recorded Data (Describe in Aerial Photographs Other No Recorded Data Availab FIELD OBSERVA	i Mei . n Remarks) Gauge	~	P	WETLA Primary Indica In Sa In Di Scoondary Inc	AND HYDRO tors: undated aturated in U ater Marks rift Lines ediment Deprainage Patt licators (2 or	DLOGY I Deprison of the property of the proper	NDICATOR Inches Vetlands Required):	
HYDROLOGY Recorded Data (Describe in Aerial Photographs Other No Recorded Data Availab	i med. Remarks) Gauge	Ø (1	P	WETLA Primary Indica In Sa U W D Secondary Inc	AND HYDRO tors: undated aturated in L ater Marks rift Lines ediment Deprainage Patt licators (2 or xidized Roof dater-Stained	DLOGY I Deprison of the control of t	NDICATOR Inches Vetlands Required): els in Upper	
HYDROLOGY Recorded Data (Describe in Stream, Lake, or Tide Canada Photographs Other No Recorded Data Availab FIELD OBSERVA	i med. Remarks) Gauge	Ø (i	n) S	WETLA Primary Indica In Sa Di Secondary Inc U C U C C C C C C C C C C C C C C C C	AND HYDRO tors: undated aturated in Usater Marks rift Lines ediment Deprainage Patt licators (2 or xidized Roof ater-Stained ocal Soil Sur	DLOGY I DDDGY I DDDGY I DDDGY I DDDGY I DDGY	NDICATOR Inches Vetlands Required): els in Upper	
HYDROLOGY Recorded Data (Describe in Stream, Lake, or Tide Canada Photographs Other No Recorded Data Availab FIELD OBSERVA Depth of Surface Water	i med.	Ø (1)	n) S	WETLA Primary Indica In Sa U W D Secondary Inc U W I D F	AND HYDRO tors: undated aturated in L ater Marks rift Lines ediment Deprainage Patt licators (2 or xidized Roof dater-Stained	DLOGY I Deposits Depo	NDICATOR Inches Vetlands Required): els in Upper	

	orige and Dhanal	E 1	Autor Drainage Class: a variety of 1				
		Exchequer and t	Auburn very rocky Drainage Class: excessively drained				
Taxonomy (Subgro	oup)		Field Observations Confirm Mapped Type? YES NO				
			E DESCRIPTION				
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions		
(IIICHES)		(Midisell Moist)	(Mulisell Moist)	Abditidatice/Contrast	Structure, etc.		
		LIVERIC	L SOIL INDICATORS:				
		HIDRIC					
☐ Histosol			☐ Concret				
☐ Histic Epip			☐ High Or	ganic Content in Surface	e Layer in Sandy Soils		
☐ Sulfidic Od			☐ Organic	Streaking in Sandy Soil	S		
☐ Aquic Mois	ture Regime		Listed o	n Local Hydric Soils List			
☐ Aquic Moisture Regime			processor .				
Reducing (Conditions		Listed o	n National Hydric Soils L	ist		
Reducing (Conditions Low-Chroma Cold	prs		n National Hydric Soils L Explain in Remarks)	List		
Reducing (ors		•	List		
Reducing (Gleyed or I Remarks:	Low-Chroma Colo		Other (E	•	ist		
Reducing (Gleyed or I Remarks:	Low-Chroma Colo	xeauded here	Other (E	•	List		
Reducing (Gleyed or I Remarks:	Low-Chroma Colo		Other (E	•	ist		
Reducing (Gleyed or I Remarks:	Low-Chroma Colo		Other (E	•	List		
Reducing Gleyed or I	Low-Chroma Colo		Other (E	•	ist		
Reducing C Gleyed or I Remarks:	pit was e		Other (E	•	List		
Reducing C Gleyed or I Remarks:	pit was e	xeavaled here	Other (E	•	ist		
Reducing C Gleyed or I Remarks:	ERMINATION ation Present?	xeaualed here	Other (E	explain in Remarks)			
Reducing C Gleyed or I Remarks: // D /ETLAND DETE Hydrophytic Vegeta Wetland Hydrology	ERMINATION ation Present?	Xeauched here YES NO	Other (E	•	YES NO		
Reducing C Gleyed or I Remarks: VETLAND DETE Hydrophytic Vegeta Wetland Hydrology Hydric Soils Preser	ERMINATION ation Present?	xeaualed here	Other (E	explain in Remarks)			
Reducing C Gleyed or I Remarks: // D /ETLAND DETE Hydrophytic Vegeta Wetland Hydrology Hydric Soils Preser Remarks	ERMINATION ation Present?	YES NO YES NO YES NO	Other (E	explain in Remarks)	YES NO		
Reducing C Gleyed or I Remarks: // D /ETLAND DETE Hydrophytic Vegeta Wetland Hydrology Hydric Soils Preser Remarks	ERMINATION ation Present?	YES NO YES NO YES NO	Other (E	explain in Remarks)	YES NO		
Reducing C Gleyed or I Remarks: // D /ETLAND DETE Hydrophytic Vegeta Wetland Hydrology Hydric Soils Preser Remarks	ERMINATION ation Present?	YES NO YES NO YES NO	Other (E	explain in Remarks)	YES NO		
Reducing C Gleyed or I Remarks: // D /ETLAND DETE Hydrophytic Vegeta Wetland Hydrology Hydric Soils Preser Remarks	ERMINATION ation Present?	YES NO YES NO YES NO	Other (E	explain in Remarks)	YES NO		
Reducing C Gleyed or I Remarks: // D /ETLAND DETE Hydrophytic Vegeta Wetland Hydrology Hydric Soils Preser Remarks	ERMINATION ation Present?	YES NO YES NO YES NO	Other (E	explain in Remarks)	YES NO		
Reducing C Gleyed or I Remarks: // D /ETLAND DETE Hydrophytic Vegeta Wetland Hydrology Hydric Soils Preser Remarks	ERMINATION ation Present?	YES NO YES NO YES NO	Other (E	explain in Remarks)	YES NO		
Reducing C Gleyed or I Remarks: // D /ETLAND DETE Hydrophytic Vegeta Wetland Hydrology Hydric Soils Preser Remarks	ERMINATION ation Present?	YES NO YES NO YES NO	Other (E	explain in Remarks)	YES NO		
Reducing C Gleyed or I Remarks: // D /ETLAND DETE Hydrophytic Vegeta Wetland Hydrology Hydric Soils Preser Remarks	ERMINATION ation Present?	YES NO YES NO YES NO	Other (E	explain in Remarks)	YES NO		

(1987 COE Wetlands Delineation Manual)

			-				
Project/Site Ione Ca.	sino Pro	ject			Date 11	125/03	
Applicant / Owner					County	mader	
Investigator John H	owe, J	ohn Mill	er-		State	CA	
Do Normal Circumstances exist on	YES NO	Community ID	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Is the site significantly disturbed (Atypical Situation)?					Transect ID N	W DryCt. T	til NE b
Is the area a potential Problem Area	a? (If needed, e	explain on reverse	e)	YES (NO)		521	
VEGETATION					And the state of t		
Dominant Plant Species	Stratum	Indicator		Dominant Pl	ant Species	Stratum	Indicator
1 Aesculus Californica	S	NOL	9				
2 Toxico dendron diversileham	S	NOL	10				
3 Cynosurus echinatus	H	NOL	11				
4 Trifolium angustifolium	H	NOL	12				
5 Avena fatua	1-1	NOL	13				
6			14				
7			15				
8			16				
Percent of Dominant Species that a	re OBL, FAC	W, or FAC (e	xclud	ding FAC-)	0/5 =	0%	
Remarks					•		
			Section 2000				
HYDROLOGY	THE STREET STREET, SHE SAN THE STREET, SHE STREET, SHE STREET, SHE	EXENCES SERVICES CONTRACTOR OF THE	many and an				
Recorded Data (Describe in	n Remarks)			WETLA	AND HYDROLOG	SY INDICATOR	RS
	*			Primary Indica	tors:		
Stream, Lake, or Tide (Jauge				undated		
☐ Aerial Photographs☐ Other				and the same of th	aturated in Upper	12 Inches	
				-	ater Marks		
No Recorded Data Availab	le				rift Lines ediment Deposits		
FIELD OBSERV	ATIONS				rainage Patterns		
Depth of Surface Water		Ø (in			licators (2 or mor		
Depart of Carrage Water	-	(in			xidized Root Cha		12 Inches
Depth to Free Water in Pit	1	1/A (in		\square w	ater-Stained Lea	ives	
- Transfer of the transfer of		7/CJ (III	/		ocal Soil Survey [Data	
Depth to Saturated Soil	ì	1/0			AC-Neutral Test		
Deptil to Saturated SOII		J/A (in)	0	ther (Explain in R	Remarks)	
Rounded fragments c	of slate	in the	5+	trambel	indicates	flow.	

DILS	10	51	perant	Sluga	J
The state of the s			-		

S21	
trained	
NO	

SOILS				o 51 perant slopes	
Map Unit Name (S	Series and Phase): [Xchiquer very no	kysiHlam, 31	Drainage Class: (2x(.)	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.
			4		
			200 200 200 200 200 200 200 200 200 200		
		HYDRIC	SOIL INDICATORS:		
Reducing (dor sture Regime		Organic Listed or	ions ganic Content in Surface Streaking in Sandy Soils n Local Hydric Soils List n National Hydric Soils L xplain in Remarks)	S
Remarks:	,	101	-		
No	pit was ex	cavaled here.	•		
	,				
VETLAND DETI	ERMINATION		And the second s		The second secon
Hydrophytic Vegeta	ation Present?	YES (NO)		NATIONAL STREET, THE RANGE OF STREET,	-
101-41	D 10		1		

Hydrophytic Vegetation Present?	YES (NO)	
Wetland Hydrology Present?	(YES) NO	Is this Sampling Point Within a Wetland? YES (NO)
Hydric Soils Present?	YES (NO)	
Remarks		
Site is an	intermitten	tly-flowing channels

(1987 COE Wetlands Delineation Manual)

Project/Site Zone Ca	sino Pro	iect		Date	11/25/03	3
Applicant / Owner		County	Amador			
Investigator John Hol	r	State	CA			
Do Normal Circumstances exist or	,	h Mille	(YES) NO	Community		
Is the site significantly disturbed (A	Atypical Situati	on)?	YES (NO)	Transect ID	Contral Star	L pand
Is the area a potential Problem Are	ea? (If needed, e	xplain on revers	e) YES NO	Plot ID	Central Stoc 522	- pond
EGETATION	7					
Dominant Plant Species	Stratum	Indicator	Dominant F	Plant Species	Stratum	Indicator
1 Juneus balticus	<u> </u>	OBL	9			
2			10			
3			11			
4			12			
5			13			
6	-		14			
7			15			
8			16			
		W, or FAC (e	excluding FAC-)		= /00%	
Percent of Dominant Species that Remarks CHACHIAN		W, or FAC (e	excluding FAC-)		= 108%	
Remarks CHHeria M		W, or FAC (e	excluding FAC-)	1/1	= 108%	
Remarks Criteria 1 IYDROLOGY	me-f.	W, or FAC (e			= /08 %	RS
IYDROLOGY Recorded Data (Describe	me√ in Remarks)	W, or FAC (e		AND HYDROL		RS
Remarks Chilehia h IYDROLOGY Recorded Data (Describe Stream, Lake, or Tide	me√ in Remarks)	W, or FAC (e	WETL Primary Indic	AND HYDROL ators: nundated	.OGY INDICATOR	RS
Remarks Critchia r IYDROLOGY Recorded Data (Describe Stream, Lake, or Tide Aerial Photographs	me√ in Remarks)	W, or FAC (e	WETL Primary Indic	AND HYDROL ators: nundated Saturated in Up	.OGY INDICATOR	RS
Remarks Chilehia h IYDROLOGY Recorded Data (Describe Stream, Lake, or Tide	me√ in Remarks)	W, or FAC (e	WETL Primary Indic	AND HYDROL ators: nundated Saturated in Up	.OGY INDICATOR	RS
Remarks Critchia r HYDROLOGY Recorded Data (Describe Stream, Lake, or Tide Aerial Photographs	me√ in Remarks) • Gauge	W, or FAC (e	WETL Primary Indic	AND HYDROL ators: nundated Saturated in Up Vater Marks Orift Lines	OGY INDICATOR	RS
Remarks Critchia M IYDROLOGY Recorded Data (Describe Stream, Lake, or Tide Aerial Photographs Other No Recorded Data Availa	me√ in Remarks) Gauge	W, or FAC (e	WETL Primary Indic	AND HYDROL ators: nundated Saturated in Up Vater Marks Orift Lines	OGY INDICATOR per 12 Inches sits	RS
Remarks Critchia r IYDROLOGY Recorded Data (Describe Stream, Lake, or Tide Aerial Photographs Other	me√ in Remarks) Gauge	W, or FAC (e	WETL Primary Indic	AND HYDROL ators: nundated Saturated in Up Vater Marks Orift Lines Sediment Depo	OGY INDICATOR per 12 Inches sits rns in Wetlands	RS
Remarks Critchia M IYDROLOGY Recorded Data (Describe Stream, Lake, or Tide Aerial Photographs Other No Recorded Data Availa	me√ in Remarks) Gauge	W, or FAC (e	WETL Primary Indic	AND HYDROL ators: nundated Saturated in Up Vater Marks Orift Lines Sediment Deporationage Patter dicators (2 or no	OGY INDICATOR per 12 Inches sits rns in Wetlands more Required):	
Remarks Critchia I IYDROLOGY Recorded Data (Describe Stream, Lake, or Tide Aerial Photographs Other No Recorded Data Availa FIELD OBSERY	me√ in Remarks) Gauge	Ø (ir	WETL Primary Indic In S S S Secondary In C O O O O O O O O O O O O O O O O O O	AND HYDROL ators: nundated Saturated in Up Vater Marks Orift Lines Sediment Deporationage Patter dicators (2 or no	OGY INDICATOR per 12 Inches sits rns in Wetlands more Required): Channels in Upper	

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

SO	115
20	LO

31 perant slipes.

S22

	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.	
0-4	B	5Y4/Z	N/A	none	clay loam	
		HYDRIC	SOIL INDICATORS:			
Reducing	sture Regime Conditions Low-Chroma Colo	rs	Listed or	Streaking in Sandy Soil n Local Hydric Soils List n National Hydric Soils I xplain in Remarks)		
Sla	ate bedrock Heria hot	near or at	surface.			
SIA CA ETLAND DET	iteria hot	met.	surface.			
Sla Ch ZETLAND DET Hydrophytic Vege	ERMINATION tation Present?			oint Within a Wetland?	YES (NO)	
Sla	ERMINATION tation Present?	met.		oint Within a Wetland?	YES (NO)	

(1987 COE Wetlands Delineation Manual)

Applicant / Owner	Project/Site Ione Casino Project					Date 11/25/03		
: : : : : : : : : : : : : : : : : :						County Amador		
Investigator John Hou	we , Joh	h Miller		State C	A			
Do Normal Circumstances exist or			YES NO	Community ID				
Is the site significantly disturbed (A	typical Situati	on)?	YES NO	Transect ID)	tch at det	ention pond		
Is the area a potential Problem Are	ea? (If needed, e	xplain on reverse	YES NO	Plot ID	523	,		
VEGETATION								
Dominant Plant Species	Stratum	Indicator	Dominant F	Plant Species	Stratum	Indicator		
1 Populus fremontii	5	FACW	9					
2 Rubus discolor	5	FACW*	10					
3 Typha latifolia	H	OBL	11					
4			12					
5			13					
6			14					
7			15					
8			16					
Percent of Dominant Species that	are OBL. FAC	CW. or FAC (e	xcluding FAC-)	3/3 = 1	00%			
Criteria n	net-							
OTTICITAL T	ne t -							
HYDROLOGY	ne+ -							
HYDROLOGY				AND HYDROLOG	Y INDICATOR	RS		
HYDROLOGY Recorded Data (Describe	in Remarks)		Primary Indic	ators:	Y INDICATOR	RS		
HYDROLOGY Recorded Data (Describe Stream, Lake, or Tide	in Remarks)		Primary Indic	ators: nundated		RS		
HYDROLOGY Recorded Data (Describe	in Remarks)		Primary Indic	ators: nundated Saturated in Upper		RS		
HYDROLOGY Recorded Data (Describe Stream, Lake, or Tide Aerial Photographs	in Remarks)		Primary Indic	ators: nundated		RS		
HYDROLOGY Recorded Data (Describe Stream, Lake, or Tide Aerial Photographs	in Remarks) Gauge		Primary Indic	ators: nundated Saturated in Upper Water Marks Drift Lines	12 Inches	RS		
HYDROLOGY Recorded Data (Describe Stream, Lake, or Tide Aerial Photographs Other	in Remarks) Gauge		Primary Indic	ators: nundated Saturated in Upper Water Marks	12 Inches	RS		
HYDROLOGY Recorded Data (Describe Stream, Lake, or Tide Aerial Photographs Other No Recorded Data Availa	in Remarks) Gauge	Ø (ir	Primary Indic	eators: nundated Saturated in Upper Water Marks Drift Lines Sediment Deposits	12 Inches in Wetlands e Required):			
HYDROLOGY Recorded Data (Describe Stream, Lake, or Tide Aerial Photographs Other No Recorded Data Availa	in Remarks) Gauge	Ø (ir	Primary Indic	nundated Saturated in Upper Water Marks Drift Lines Sediment Deposits Drainage Patterns in	12 Inches in Wetlands e Required): nnels in Uppe			

Criteria met -

Map Unit Name (Se	eries and Phase):	Excheginer and Aus	Lun loans 340	Drainage Class: ₽x(:	couls drawed
Taxonomy (Subgro	up)	- North Man Comment	Field Observations	Confirm Mapped Type?	
		PROFIL	E DESCRIPTION		
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretion Structure, etc.
0-16	Α	5 Y 4/1	N/A	none	Sitty sand in
					foreign plastic
					debris
	.,				
		HYDRIC S	SOIL INDICATORS:		
Reducing C Gleyed or L Remarks:	ture Regime conditions ow-Chroma Color ria Met	rs	Listed on	Streaking in Sandy Soils n Local Hydric Soils List n National Hydric Soils L explain in Remarks)	
/ETLAND DETE	A ROMAN MARKET ALIVE AND A STATE OF THE STAT	(F2) NO			
Hydrophytic Vegeta		YES NO	-		
Wetland Hydrology		YES NO	is this Sampling P	oint Within a Wetland?	(YES) NO
Hydric Soils Presen		(YES) NO			
Remarks	L.	Criteria	met.	4	

(1987 COE Wetlands Delineation Manual)

Project/Site Ione Cas	ino Pro	iect		Date	11/25/03			
Applicant / Owner					Amador			
Investigator John Howe	, John	h Miller		State	CA			
	Do Normal Circumstances exist on the site?					Community ID		
Is the site significantly disturbed (At	ypical Situation	on)?	YES NO	Transect ID	Ditch in from	L of motel		
Is the area a potential Problem Area	a? (If needed, e	xplain on revers	YES NO	Plot ID	524			
VECETATION	or and the second secon							
Dominant Plant Species	Stratum	Indicator	Dominant P	Plant Species	Stratum	Indicator		
1 Salix lasiolepis	S	FACW	9					
2 Typha latifolia	H	OBL	10					
3 Epilehium Cilia-lum	H	FACW	11					
4 Cyperus cragnistis	i.i	FACW	12					
5 Cynodon dactylon	14	FAC	13					
6		(1)	14					
7			15					
8			16					
Percent of Dominant Species that a	re OBL. FAC	W. or FAC (excluding FAC-)	5/5 :	=100%			
Crítería i	7701							
HYDROLOGY								
Described Data (Described)	n Domorko)		WETL	AND HYDRO	LOGY INDICATOR	RS		
Recorded Data (Describe i			Primary Indic					
Stream, Lake, or Tide	Gauge			nundated				
☐ Aerial Photographs☐ Other					pper 12 Inches			
Other				Vater Marks Orift Lines				
No Recorded Data Availal	ole			onit Lines Sediment Dep	oeite			
FIELD OBSERV			_		erns in Wetlands			
D II (0 ())		d	Secondary In	idicators (2 or	more Required):			
Depth of Surface Water		p (ii	1)		Channels in Uppe	r 12 Inches		
Depth to Free Water in Pit		4 (i	2)	Water-Stained ₋ocal Soil Sur				
Depth to Saturated Soil		Ø (i		FAC-Neutral T Other (Explair	est n in Remarks)			

Criteria met.

OILG		r , , , , ,	1 1 10	percent ortycz	
		: Exchequer = flui			xcessively drained
Taxonomy (Subgr	roup)			s Confirm Mapped Typ	pe? YES NO
			LE DESCRIPTION		
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contra	Texture, Concretion st Structure, etc.
0-8	Α	2.5 Y 4/3	N/A	none	silty sand
		mixed with			1
		5 Y 4/1			silty clay
					7
		HYDRIC	SOIL INDICATORS:		
☐ Histosol			☐ Concre	tions	
☐ Histic Epi	pedon		☐ High Or	ganic Content in Surf	ace Layer in Sandy Soils
☐ Sulfidic O	dor		parameter	Streaking in Sandy S	
☐ Aquic Moi	isture Regime			on Local Hydric Soils L	
Reducing	Conditions			on National Hydric Soil	
☐ Gleyed or	Low-Chroma Col	ors	parameter 1	Explain in Remarks)	
Remarks:			,		
~ 1	1 / 1	k near bas	1 / 1		
210.1	te bedroci	k hear bas	e of ditch.		
ETLAND DET	ERMINATION				
Hydrophytic Vege		(YES) NO	-		
Wetland Hydrolog	gy Present?	YÉS NO	Is this Sampling F	Point Within a Wetland	d? (YES) NO
Hydric Soils Prese	ent?	(YES) NO			
Remarks					
	1.	.1 . 1			
	Chi	teria met.			

Project/Site

ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Casino Project	Date 1/16/04
	County Amador
ia, John Miller	State CA

10/18 CASTAG 176/861			1/10/01	
Applicant / Owner		County	Amador	
Investigator Paul García, John Miller		State	CA	
Do Normal Circumstances exist on the site?	(YES) NO	Community	ID	
Is the site significantly disturbed (Atypical Situation)?	YES 🐠	Transect ID	Stock peal head Dr	11 (1-1)
Is the area a potential Problem Area? (If needed, explain on reverse)	YES NO	Plot ID	S25	

VEGETATION

	Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1	Typha latitulia	H	OBL	9		
2	Juneus balliens	H	OBL	10		
3	Cyperus eragrostis	H	FACW	11		
4	7)			12		
5				13		
6				14		
7				15		
8				16		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 3/3 = 100%

Remarks

Criteria met.

HYDROLOGY

Recorded Data (Describe i Stream, Lake, or Tide Aerial Photographs Other	Gauge	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	(in)	Secondary Indicators (2 or more Required): Oxidized Root Channels in Upper 12 Inches	
Depth to Free Water in Pit	Ø	(in)	☐ Water-Stained Leaves ☐ Local Soil Survey Data	
Depth to Saturated Soil	Ø	(in)	FAC-Neutral Test Other (Explain in Remarks)	

CrAeria met.

SOILS			3 +0 3	31 percent slopes	S2
Map Unit Name (S	eries and Phase):	Exchequer a	THE RESIDENCE AND ADDRESS OF THE PROPERTY OF THE PROPERTY OF THE PARTY	Drainage Class: Cx (
Taxonomy (Subgro	oup)	0	Field Observations	Confirm Mapped Type	? YES NO
		PROFIL	E DESCRIPTION		
Depth	Horizon	Matrix Color	Mottle Colors	Mottle	Texture, Concretions
(inches)	B	(Munsell Moist)	(Munsell Moist)	Abundance/Contrast	Structure, etc.
1 2	0	546/Z	41/1	hone	rocky clay
6-8		516/6	N/f)	Mone	rocky clay
Reducing Gleyed or Remarks:	lor sture Regime Conditions Low-Chroma Color	near or at	Organic Listed or Listed or Other (E	ganic Content in Surface Streaking in Sandy Soil n Local Hydric Soils List n National Hydric Soils I Explain in Remarks)	s
ETLAND DET		(F2) 110			
Hydrophytic Veget		(YES) NO			(50)
Wetland Hydrology		(YES) NO	is this Sampling P	oint Within a Wetland?	YES NO
Hydric Soils Prese Remarks	nt?	(YES) NO			
	riteria mo	et. 514	le is a h	nan-made sto	ock watering

DATA FORM - ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Project/Site Ione Casino Project				Date	1/16/0-		
Applicant / Owner				County	Amador		
Investigator Paul Garcia, John Miller				State	CA		
Do Normal Circumstances exist on the site? MES NO				Community	ID		
Is the site significantly disturbed (Atypical Situation)?				Transect ID	Head of Dr	y Creek Trib.	
Is the area a potential Problem Area? (If needed, explain on reverse)) YES NO	Plot ID	526		
			TO A SECURITION OF PRICE AND A SECURITION OF	ALL PROPERTY OF THE PARTY OF TH			
VEGETATION		T					
Dominant Plant Species	Stratum	Indicator	Dominant P	lant Species	Stratur	n Indicator	
1 Claytonia pertiliata	H	FAC	9				
2 Cynesuras echinatus 3 Stellaria media	H	NOL	10				
3 Stellaria media	H	FACU	11				
4			12				
5			13				
6			14			+	
7			15				
8			16				
Percent of Dominant Species that a	re OBL, FAC	CW, or FAC (excluding FAC-)	1/3 =	33%		
Criteria ho	t met.						
HYDROLOGY							
			WETL	AND HYDROL	LOGY INDICA	TORS	
	Recorded Data (Describe in Remarks)			Primary Indicators:			
Stream, Lake, or Tide	Gauge			Inundated			
☐ Aerial Photographs				Saturated in Upper 12 Inches			
Other				☐ Water Marks			
No Recorded Data Availab	ole			orift Lines	!4-		
FIELD OBSERVATIONS				Sediment Deposits Drainage Patterns in Wetlands			
FIELD OBSERV	ATIONS	,	_	ramage r atte	iiis iii vvetiaiic	3	
Depth of Surface Water	Depth of Surface Water (in)			Secondary Indicators (2 or more Required): Oxidized Root Channels in Upper 12 Inches			
Depth to Free Water in Pit	Ø	/ (ii	1)	☐ Water-Stained Leaves ☐ Local Soil Survey Data			
Depth to Saturated Soil (in)				FAC-Neutral Test			
		puta secretar active hada took both one open on the			,		

Criteria met.

SO	15

3 to 31 perant slepe -

526

Map Unit Name (S	Series and Phase):	Exchequer and	Aubum leams,	Drainage Class: PM	essively durined
Taxonomy (Subgr		ν		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.
0-16	A	2.5Y 3/Z	N/A	hone	rocky clay
					/ /
		HYDRIC S	SOIL INDICATORS:		
☐ Histosol			☐ Concreti	ons	
Histic Epi	nedon			ganic Content in Surface	Laver in Sandy Soils
Sulfidic O	• 00.0000000000			Streaking in Sandy Soil	
	isture Regime			n Local Hydric Soils List	
	Conditions			n National Hydric Soils L	
	Low-Chroma Color	'S		ixplain in Remarks)	
Remarks:					
				•	
C	ritersa not	met-			
				<i>i</i>	
VETLAND DET	ERMINATION				
Hydrophytic Vege	tation Present?	YES (NO)		Extra service and a service service and the service and a service serv	
Wetland Hydrolog	gy Present?	(YES) NO	Is this Sampling P	oint Within a Wetland?	YES NO
		-			1 /
	ent?	YES (NO)			
Hydric Soils Pres	ent?	YES (NO)			
Hydric Soils Pres Remarks	la To			1	
Hydric Soils Pres Remarks	la To		MS ad	the beadingler	
Hydric Soils Pres Remarks	la To		U.S. at	the headwater	Va
Hydric Soils Pres Remarks	la To		U.S. at	the headwaters	
Hydric Soils Pres Remarks	la To		U.S. at	the headwaters	
Hydric Soils Pres Remarks	la To		U.S. at	the headwaters	~
Hydric Soils Pres Remarks	la To		U.S. at	the headwaters	
Hydric Soils Pres Remarks	la To		U.S. at	the headwater	
Hydric Soils Pres Remarks	la To		U.S. at	the headwaters	