

Aquatic Resources Delineation Report

Carmenere Estates

Town of Loomis, Placer County, California

2 April 2025

Prepared for:

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1.0 INTRODUCTION

This report presents the results of a delineation of aquatic resources within the Carmenere Estates (Study Area) conducted by Madrone Ecological Consulting, LLC (Madrone). The approximately 97.9-acre Study Area is generally located west and east of Delmar Avenue, west of Bankhead Road, east of the Union Pacific Railroad right-of-way, and north of the Town of Loomis/City of Rocklin boundary. The Study Area is within Section 8, Township 11 North, Range 7 East (MDB&M) of the "Rocklin, California" 7.5-Minute Series USGS Topographic Quadrangle (USGS 2021) (Figure 1).

1.1 Contact Information

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2.0 METHODOLOGY

Madrone biologists Matthew Shaffer and Daria Snider conducted a delineation of aquatic resources within the Study Area on 16, 17, and 18 October and 28 November 2018 and 25-26 April and 19 July 2023. Water features and data points were mapped in the field with a GPS unit capable of sub-meter accuracy (Arrow 100). Three-parameter data (vegetation, soils, and hydrology) were collected at each data point, documenting wetland/waters or upland status, as appropriate. The delineation map was prepared in accordance with the *Updated Map and Drawing Standards for the South Pacific Division Regulatory Program* (USACE 2016a). The GPS data was overlaid on ortho-rectified aerial photographs (Maxar 2022).

The delineation was performed in accordance with the *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory 1987), the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0)* (USACE 2008a), *A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States* (USACE 2008b), and the Sacramento District's *Minimum Standards for Acceptance of Preliminary Wetlands Delineations* (USACE 2016b). U.S. Army Corps of Engineers (USACE) regulations (33 CFR 328) were used to determine the presence of Waters of the United States other than wetlands. The most recent *National Wetland Plant List* (USACE 2020) was used to determine the wetland indicator status of plants observed in the Study Area. The *Jepson eFlora* (Jepson Flora Project 2023) was used for plant nomenclature.

On behalf of our client, we are requesting an Approved Jurisdictional Determination for the Study Area (request form included as **Attachment D**).

3.0 EXISTING CONDITIONS

West of Delmar Avenue

The Study Area to the west of Delmar Avenue is generally characterized by annual brome grassland interspersed with seeps, seasonal wetland swales, an intermittent drainage, a seasonal pond, and a perennial unnamed tributary to Antelope Creek. A few small seasonal wetlands are present in depressional areas due to heavy cattle use. A rural residence is present in the northeastern portion of the site. Eucalyptus trees exist along several fence lines within the Study Area, primarily in the southern portion of the site. Isolated Valley oak (*Quercus lobata*) and other trees are scattered throughout the Study Area. The Study Area is bounded to the north by a private driveway and previously irrigated pasture nearly identical to that found within the study area, to the east by Delmar Avenue, to the south by rural residential parcels, and to the west by the Union Pacific Railroad.

The Study Area to the west of Delmar Avenue was irrigated for livestock grazing until approximately 2020. At that time, irrigation within the majority of the Study Area ceased, but some plant species [such as the dominance of Kentucky blue grass (*Poa pratensis*) in the uplands, and fowl blue grass (*P. palustris*) in the seasonal wetland swales] remain as evidence of this recent change. The northwestern field was an orchard in 1993, but the trees had been removed by 1999. Lastly, a perennial drainage and associated apparently constructed ponds were historically present within the Study Area but appear to have been undergrounded in 2004. The drainage now runs through much of the Study Area within a corrugated plastic culvert pipe that leaks in various locations, and as a result is mapped as a seasonal wetland swale.

The annual brome grassland within the Study Area is dominated by soft brome (*Bromus hordeaceus*), brome fescue (*Festuca bromoides*), valley tassels (*Castilleja attenuata*), greenstem filaree (*Erodium moschatum*), and Kentucky blue grass. Other common plant species occurring within the annual brome grasslands include clustered clover (*Trifolium glomeratum*), smooth cat's-ear (*Hypochaeris glabra*), and rattail fescue (*Festuca myuros*).

East of Delmar Avenue

The Study Area to the east of Delmar Avenue primarily consists of multiple fenced pastures along the center, southern, and eastern portions of the site. The pastures were being utilized for grazing by a free-ranging group of cattle during the survey. Although many plant species were unidentifiable at the time of the survey, generally the pastures support upland annual grassland and ruderal species, including greenstem filaree, yellow star-thistle (*Centaurea solstitialis*), English plantain (*Plantago lanceolata*), rose clover (*Trifolium hirtum*), cut-leaf geranium (*Geranium dissectum*), hairy hawkbit (*Leontodon saxatilis*), prickly lettuce (*Lactuca serriola*), turkey mullein (*Croton setiger*), field bindweed (*Convolvulus arvensis*), soft brome, Medusa head (*Elymus caput-medusae*), perennial ryegrass (*Festuca perennis*), wild oat (*Avena fatua*), and stinkwort (*Dittrichia graveolens*). Scattered valley oak, interior live oak (*Quercus wislizeni*), and blue oak (*Quercus douglasii*) are present throughout the pastures, along with several planted exotic species including black walnut (*Juglans nigra*), olive (*Olea europaea*), and white poplar (*Populus alba*).

The northeast fenced parcel has not been grazed recently and features robust vegetation that is dominated by yellow star-thistle, along with some greenstem filaree, prickly lettuce, common madia (*Madia elegans*), skeleton weed (*Chondrilla juncea*), and black mustard (*Brassica nigra*). The eastern portion of the parcel is predominantly robust perennial ryegrass.

The central portion of the Study Area features oak savanna on sloped terrain with rock outcroppings transitioning to interior live oak woodland and finally riparian vegetation along Antelope Creek. Several old remnant ditches are located along the slopes and appear to have been historically used for irrigation or mining purposes. Herbaceous vegetation within the oak savanna is similar to the pasture areas. Vegetation within the oak woodland is robust and consists of several grassland and ruderal species such as soft brome, English plantain, rose clover, hairy hawkbit, prickly lettuce, turkey mullein, perennial ryegrass, ripgut brome (Bromus diandrus), hedgehog grass (Cynosurus echinatus), California poppy (Eschscholzia californica), Italian thistle (Carduus pycnocephalus), bull thistle (Cirsium vulgare), Fitch's spikeweed (Centromadia fitchii), sticky willy (Galium aparine), woolly mullein (Verbascum thapsus), and moth mullein (Verbascum blattaria). Tree and shrub species include predominantly interior live oak, with valley oak, blue oak, green ash (Fraxinus pennsylvanica), grey pine (Pinus sabiniana), tree of heaven (Ailanthus altissima), black locust (Robinia pseudoacacia), California buckeye (Aesculus californica), poison oak (Toxicodendron diversilobum), and coyote brush (Baccharis pilularis).

An old orchard and remnant homestead are located in the southwest corner of the Study Area. This area is disturbed, and features several remnant ditches, cement foundations, soil spoils, and piles of pressed grapes. Many exotic trees in this area are associated with the old orchard, including black walnut, olive, Mediterranean cypress (*Cupressus sempervirens*), Canary Island date palm (*Phoenix canariensis*), common persimmon (*Diospyros virginiana*), pomegranate (*Punica granatum*), and Callery pear (*Pyrus calleryana*).

3.1 Hydrology

Surface water within the Study Area is primarily driven by rainfall and groundwater seepage. To the west of Delmar Avenue all water features flow generally from the north to the south. Most of the features (apart from SW-1 and Seep-1, which appear to be isolated, and the roadside ditches) are tributary to the Perennial Drainage either on-site or off-site to the south. To the east of Delmar Avenue, the Study Area is roughly convex along the west-east vector, and slopes downhill from north to south.

The perennial drainage and the roadside ditches along Del Mar Avenue and the central portion of the Study Area flows into Antelope Creek, while surface water on the eastern portion of the site flows via an existing storm drain system to Sucker Ravine. Sucker Ravine is a tributary to Secret Ravine, which flows into Miners Ravine, then Dry Creek, then Steelhead Creek, then Bannon Slough, and ultimately the Sacramento River. Antelope Creek is a tributary to Dry Creek, which empties into the Sacramento River as previously described. The Study Area is located in the *Dry Creek Watershed* in the *Lower American-Sacramento River Watershed* (HUC 18020111) (USGS 1984).

3.2 Soils

According to the Natural Resources Conservation Service (NRCS) Soil Survey Database (NRCS 2023), two soil mapping units occur within the Study Area (**Figure 2**): (106) Andregg course sandy loam, 2 to 9% slopes and (194) Xerofluvents, frequently flooded. Soil unit (194) consists of hydric components, while unit (106) may contain hydric inclusions (NRCS 2023).

3.3 Driving Directions

To access the Study Area from Sacramento, drive east on Interstate 80. Take exit 108 and head east on Rocklin Road. Turn right on Granite Drive and continue for 0.3 mile before turning left on Sierra Meadows Drive. In 0.7 mi, turn right on Pacific Street and continue for 0.4 mile before turning left onto Delmar Avenue. Take a left on Delmar Avenue to the Study Area.

4.0 RESULTS

A total of approximately 1.899 acres of aquatic resources were delineated within the Study Area, including approximately 1.704 acres of wetlands and 0.196 acre of other waters. Seasonal wetlands, seasonal wetland swales, seeps, intermittent drainages, perennial drainages, pond, and roadside ditches were delineated within the Study Area. A summary of the aquatic resources found on-site, and their acreages is shown in **Table 1** below.

Table 1. Aquatic Resources Delineated within the Study Area

Resource Type	Acreage
Wetlands	
Seasonal Wetland	0.003
Seasonal Wetland Swale	0.545
Seep	1.155
Other Waters	
Intermittent Drainage	0.025
Perennial Drainage	0.129
Pond	0.036
Roadside Ditch	0.006
Total	1.899

Data sheets are included in **Attachment A**. Maps of the aquatic resources within the Study Area are included as **Figure 3** and **Attachment B**, and a list of the plant species observed in the Study Area with their wetland indicator status is included in **Attachment C**. GIS Shapefiles and the *Aquatic Resources Excel Spreadsheet* for the aquatic resources shown on **Figure 3** and **Attachment B** will be digitally transmitted with this document when it is submitted. Each of the feature types are described below.

4.1 Seasonal Wetland

Two small seasonal wetlands occur within the western portion of the Study Area. Seasonal wetlands are depressional wetlands that pond water seasonally. The seasonal wetlands within the Study Area are largely dominated by low manna grass (*Glyceria declinata*), pennyroyal (*Mentha pulegium*), and hyssop loosestrife (*Lythrum hyssopifolia*).

DP-10 was collected within one of the seasonal wetlands. Wetland hydrology indicators at DP-10 included aquatic invertebrates, oxidized rhizospheres along living roots, and the presence of biotic crust. Soils were considered hydric based on the presence of Field Indicators F6 (Redox Dark Surface).

4.2 Seasonal Wetland Swale

The Study Area supports seven seasonal wetland swales. Seasonal wetland swales are sloping, linear seasonal wetlands that convey surface runoff, and may detain it for short periods of time. The dominant species occurring within the seasonal wetland swales include spiny fruit buttercup (*Ranunculus muricatus*), Carter's buttercup (*R. bonariensis*), annual blue grass (*Poa annua*), and fowl blue grass. Additional plant species common in these features within the Study Area include water chickweed (*Montia fontana*), mayweed (*Anthemis cotula*), annual rabbit's-foot grass (*Polypogon monspeliensis*), and Bermuda grass (*Cynodon dactylon*).

DP-6 was collected within the lowest part of SWS-1 (DP-6). Three additional points were collected in a more marginal fringe area of SWS-2 (DPs 1- 3). DP-12 was collected within SWS-3. Wetland hydrology indicators at these points included soil saturation, high water table, oxidized rhizospheres along living roots, and presence of biotic crust. Soils at points above were considered hydric based on the presence of Field Indicators F3 (Depleted Matrix) and F6 (Redox Dark Surface). DP-22 was taken in SWS-5 in the eastern portion of the Study Area. Wetland hydrology indicators observed at DP-22 included nonriverine drift deposits (B3), drainage patterns (B3), and saturation visible on aerial imagery (C9). Soils at DP-22 was considered hydric based upon F6 (Redox Dark Surface).

4.3 Seep

Four seeps were documented within the Study Area. Seeps are areas where groundwater reaches the surface through porous soil or cracks in rock. Seeps may form small pools on level or gently rolling terrain but generally result in seasonal or perennial soil saturation with minimal standing water and gentle flows in hilly to mountainous terrain. Four seeps were observed within the western portion of the Study Area. These features are dominated by perennial rye grass as well as common plant species such as Bird's-foot trefoil (Lotus corniculatus), pennyroyal, fowl blue grass, chicory (Cichorium intybus), Bermuda grass, tall fescue (Festuca arundinacea), Mediterranean barley (Hordeum marinum), Dallis grass (Paspalum dilatatum), and waterpepper (Persicaria hydropiper).

A data points 10, 15, and 18 were collected within the seeps. Wetland hydrology indicators at these points included soil saturation, high water table, saturation, oxidized rhizospheres along living roots, aquatic invertebrates, and presence of biotic crust. Soils at points above were considered hydric based on the presence of Field Indicators C3 (Oxidized Rhizospheres along Living Roots) and F6 (Redox Dark Surface).

4.3 Intermittent Drainage

One intermittent drainage has been mapped within the Study Area (ID-1). This feature flows out of a culvert under the railroad tracks and presumably conveys flow from west of the railroad tracks. The intermittent drainage is mostly unvegetated within the channel but supports a narrow hydrophytic fringe along the edges. Plant species within this hydrophytic fringe include tall nutsedge (*Cyperus eragrostis*), pennyroyal, needle spikerush (*Eleocharis acicularis*), rice cutgrass (*Leersia oryzoides*), and Australian rush (*Juncus usitatus*). The intermittent drainage was mapped at the OHWM, which was identified based on the extent of scour, topographic breaks, and changes in vegetation.

4.4 Perennial Drainage

Perennial drainages are streams or reaches of a stream that flows continuously during all of the calendar year as a result of ground water discharge or surface runoff. Two perennial drainages were identified within the Study Area. There is an unnamed perennial drainage within the southwestern portion of the Study Area and a portion of Antelope Creek located within the center portion of the Study Area. PD-1 occurs within the southwestern portion of the Study Area and is largely unvegetated within the channel, the water surface supports floating parrot's feather (*Myriophyllum aquaticum*), and waterpepper, pennyroyal, and low manna grass fringe the edges. The perennial drainage was mapped at the OHWM, which was identified based on the extent of scour, topographic breaks, and changes in vegetation.

Antelope Creek (PD-2 and PD-3), a perennial creek, travels from north to south through the center of the Study Area to the east of Delmar Avenue. Flows within the creek are perennial in nature, with steady-flowing water observed during the site visits. Vegetation within and along the banks of the creek is robust and includes tall flatsedge, curly dock, floating primrose willow (Ludwigia peploides), panicled willowherb (Epilobium brachycarpum), fringed willowherb (Epilobium ciliatum), common knotweed (Persicaria lapathifolia), common plantain (Plantago major), Johnsongrass (Sorghum halepense), cattail (Typha sp.), and rough cocklebur (Xanthium strumarium). Vegetation within the riparian corridor along Antelope Creek consists almost exclusively of Himalayan blackberry (Rubus armeniacus) thickets, with some pokeweed (Phytolacca americana). Tree cover includes valley oak, Oregon ash (Fraxinus latifolia), western sycamore (Platanus racemosa), Fremont cottonwood (Populus fremontii), sandbar willow (Salix exigua), Goodding's black willow (Salix gooddingii), and arroyo willow (Salix lasiolepis). In addition, black elderberry (Sambucus nigra), the host plant for the federally threatened valley elderberry longhorn beetle, was found within the riparian corridor. The creek is directly connected to the navigable Sacramento River, as previously described, and is therefore likely to be a jurisdictional water of the U.S. Data point DP-26 was collected within the creek; it contained hydrophytic vegetation, wetland hydrology, and was inundated with water. The creek

was mapped at the OHWM, which was identified based on sediment deposits, drift deposits, water marks, vegetation, topographic breaks, and aerial imagery.

4.5 Pond

There is one man-made pond within the eastern half of the Study Area. This pond was made by the placement of a small earthen dam across a swale. This pond is approximately two to three feet in depth and typically dries in the summer. At the time of the May 2024 survey the pond was two feet deep and contained abundant Sierran treefrog (*Pseudacris sierra*) tadpoles. This pond is grazed by cattle and is mostly unvegetated with scattered species occurring along the margins, such as common purslane (*Portulaca oleracea*), prostrate knotweed, and Bermuda grass. The OHWM of the pond was mapped based upon non-riverine water marks (B1).

4.6 Roadside Ditch

Two roadside ditches run along the western side of Delmar Avenue. The roadside ditches serve to convey stormwater runoff from the road into Antelope Creek to the south. These features are almost entirely unvegetated due to the scouring effects of water flow. These features were mapped at the OHWM, which was identified based on the extent of scour.

5.0 CONCLUSION AND ANALYSIS UNDER THE REVISED 2023 CLEAN WATER RULE

The all but one aquatic resource within the Study Area are jurisdictional Waters of the U.S. as they have a continuous surface connection to a relatively permanent paragraph (a)(2) jurisdictional tributary.

Seep 1 within the Study Area appears to be hydrologically isolated, as water does not noticeably drain from this feature. As such, Madrone is of the opinion that this seep is non-jurisdictional since it does not have a continuous surface connection to an a(1) Water, or a relatively permanent water (RPW) a(2) impoundment or a(3) tributary, and thus do not satisfy the definition of "adjacent" as defined in 33 CFR Section 328.3(c)(2).

The applicant is requesting an Approved Jurisdictional Determination of the Aquatic Resources Delineation Map of the Study Area included in **Attachment B**. A JD request form is provided in **Attachment D**.

6.0 REFERENCES

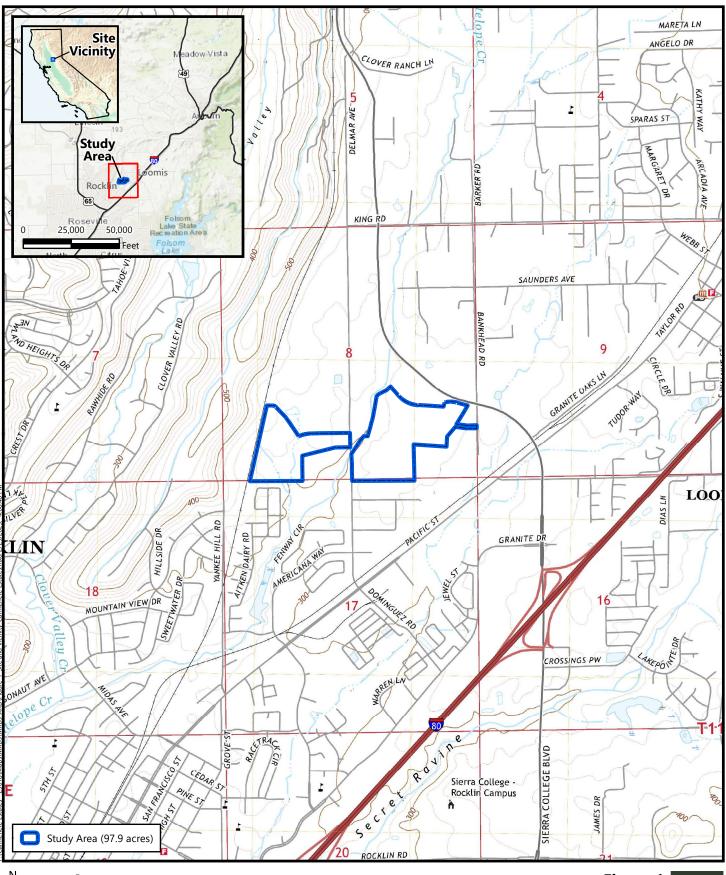
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Figures

Figure 1. Site and Vicinity

Figure 2. Natural Resources Conservation Service Soils

Figure 3. Aquatic Resources





Source: United States Geologic Survey, 2021
"Rocklin" California 7.5-Minute Topographic Quadrangle
Sections 8, 9, and 17 Township 11 North, Range 7 East, MDB&M
Latitude (NAD83): 38.812568°, Longitude (NAD83): -121.218772°

Figure 1 Site and Vicinity



Carmenere Estates Town of Loomis, Placer County, California

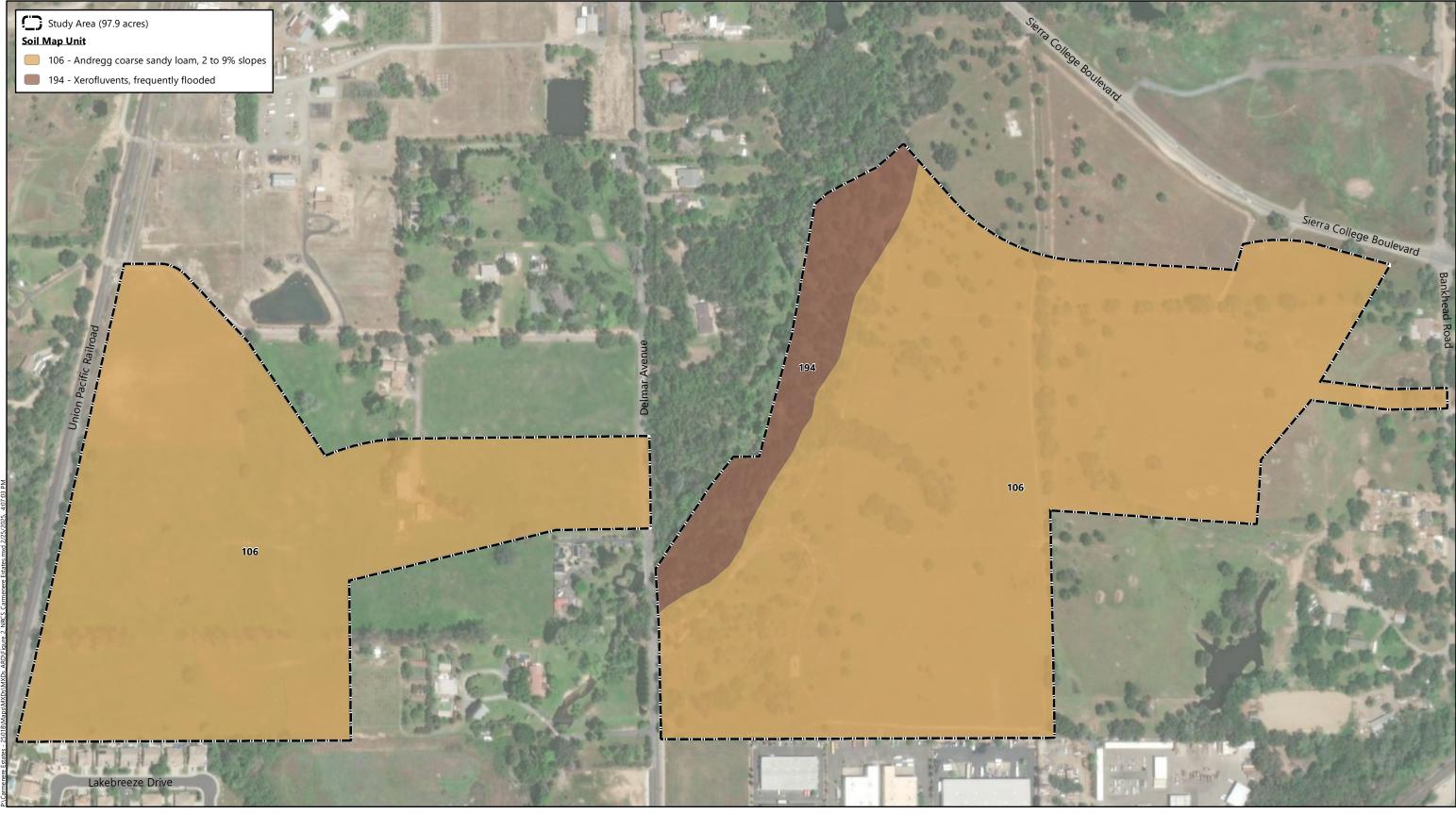




Figure 2 Natural Resources Conservation Service Soils





N Feet 0 150 30

Figure 3 Aquatic Resources



Attachments

Attachment A. Arid West Wetland Determination Data Forms

Attachment B. Aquatic Resources Delineation Map

Attachment C. Plant Species Observed within the Study Area

Attachment D. JD Request Form

Attachment A

Arid West Wetland Determination Data Forms

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site:	Carmenere Estate	S		City/County:	Town of Lo	omis, Pla	cer Cou	nty	_ San	npling Da	te:	04/25/23
Applicant/Owner:	Building Engineeri	ng and Managem	ent, Inc.					CA	San	npling Po	int: DP1	
Investigator(s):	Daria Snider			Section	n, Township	, Range:	Section	8,Townsh	ip 11 No	orth, Ran	ge 7 East	
Landform (hillslop	oe, terrace, etc.):	Topographic s	wale	Local re	elief (concav	/e, convex	, none):	Concave		;	Slope (%):	2-5
Subregion (LRR):	: Mediterranean Cal	ifornia (LRR C)	Lat:		38.8	1259973	Long:		-121.2	250406	Datum	n: NAD83
Soil Map Unit Nai	me: 106 - Andre	egg coarse sandy	loam, 2 to 99	% slopes		1	NWI Cla	ssification:	None			
Are climatic / hyd	rologic conditions or	the site typical fo	or this time of	year?	Yes		No	X	(If no,	explain ir	n Remarks	s.)
Are Vegetation	, Soil	, or Hydrology		significantly	disturbed?	Are "N	Normal C	ircumstand	es" pre	sent? `	Yes X	No
Are Vegetation		, or Hydrology		naturally pro	oblematic?	(If nee	ded, exp	lain any ar	iswers i	n Remarl	(s.)	<u> </u>
SUMMARY O	F FINDINGS – A			sampling	point loca	ations, t	ransec	ts, impo	rtant f	eatures	, etc.	
Hydrophytic Vege	etation Present?	Yes X I	No									
Hydric Soil Prese	nt?	Yes X	No		ampled Area a Wetland?	a	Yes	X	No			
Netland Hydrolog	gy Present?	Yes X	No	- WILIIIII a	i welland?		-					
Remarks:			-	-								
	easonal wetland swa			n normal.								
VEGETATION	l – Use scientifi	c names of pla	ants.									
			Absolute	Dominant	Indicator	Domina	nce Tes	t workshe	et:			
Tree Stratum	(Plot size:)	% Cover	Species?	Status			nant Speci				
1						That Are	OBL, F	ACW, or F	AC:		2	_(A)
2						Total Nu	mber of	Dominant				
3						Species	Across A	All Strata:	_		3	_(B)
4.						Percent	of Domir	nant Specie	es —			
			0	=Total Cover	r			ACW, or F		6	7%	_(A/B)
	Stratum (Plot size:)						x Worksh	eet:			
1						-	al % Co				ply by:	_
2						OBL spe	-	0	_x1 = _		0	_
3						FACW s	-	10	_x2 = _		20	_
ł						FAC spe	-	50	_x3 = _		50	_
ō						FACU sp	-	30	_x4 = _		20	_
		2	0	=Total Cover	r	UPL spe	-		_x5 = _		0	_
	(Plot size: 1 me	ter²_)			E4011	Column	-	90	_(A) _		90	_(B)
1. Anthemis co			25	<u> X</u>	FACU	Preval	lence Ind	dex = B/A =	=	3.2		_
2. <u>Poa palustri</u>	S		30	X	FAC							
3. <u>Poa annua</u>			20	X	FAC		•	getation In		s:		
1. Festuca my			5		FACU	X		ince Test is				
5. Sisymbrium			<u>T</u>		UPL			nce Index				
6. Persicaria s i			T		OBL			logical Ada				ing
7. <u>Ranunculus</u>			10		FACW			Remarks o		•	,	
3. <i>Trifolium cili</i>	olatum		T		UPL		Problen	natic Hydro	phytic \	/egetatio	n¹ (Explair	า)
			90	=Total Cover	r							
Woody Vine S	tratum (Plot size: _)						lric soil and			gy must	
1						be prese	nt, unles	s disturbe	d or prob	olematic.		
2						Hydroph	nytic					
				=Total Cover	r	Vegetati						
% Bare Groun	d in Herb Stratum	10	% Cover of	Biotic Crust	0	Present	?		Yes_	<u> </u>	No	
Remarks:						•						

Profile Des	scription: (Describe	to the d	epth need	ed to do	cument	the indica	tor or c	onfirm the abse	nce of indicators.)
Depth	Matrix			Re	edox Feat	tures				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	 Texture		Remarks
0-2	10YR3/2	100		,				loamy sand		
2-6	7.5YR3/1	90	7.5YR3/4	4	10	С	PL	loamy sand		
¹ Type: C=C	oncentration, D=Deplet	ion, RM=R	educed Mat	rix, CS=C	overed or	Coated Sar	nd Grains	s. ² Location: PL=F	Pore Lining, M=Matrix	<u>ζ</u>
								1. 1	B. I.I (C. II.	11.0.11.3
1	il Indicators: (Appli	cable to a	ili LKKS, ι			•			r Problematic Hy	aric Soils":
	sol (A1)			-	Redox (S	-			uck (A9) (LRR C)	
	Epipedon (A2)				d Matrix (-			uck (A10) (LRR B)	
	Histic (A3)			-	-	ineral (F1)			d Vertic (F18)	
	ogen Sulfide (A4)	\		-	-	//atrix (F2)			rent Material (TF2)	
	fied Layers (A5) (LRF	(C)			ed Matrix			Other (E	Explain in Remarks	5)
	Muck (A9) (LRR D)	(8.4.4)	<u>X</u>			face (F6)				
· — ·	eted Below Dark Surfa	ace (A11)				Surface (F7	()			
	Dark Surface (A12)				Depressi				, ,	ytic vegetation and
	y Mucky Mineral (S1)			vernai	Pools (F9	9)		V	vetland hydrology i	
	y Gleyed Matrix (S4)								unless disturbed	or problematic.
Restrictive	Layer (if present):									
Type:										
Depth (inch	nes):						H	lydric Soil Prese	ent?	res X No
Remarks:							ı			
HYDROLOG	v									
		·								
	ydrology Indicators		مام مام بام مس	- II 4b - 4 -				0.4		- (O av maana namuinad)
	dicators (minimum of	one requi	rea; cneck							s (2 or more required)
	ce Water (A1)				ust (B11)				_ Water Marks (E	, ,
	Water Table (A2)				Crust (B12	•			_	osits (B2) (Riverine)
	ation (A3)	- wi \				rates (B13	-		_ Drift Deposits (
	r Marks (B1) (Nonriv	•		-		e Odor (C1			_ Drainage Patte	, ,
	nent Deposits (B2) (N		ie) <u>X</u>				-	g Roots (C3)	_ Dry-Season Wa	
	Deposits (B3) (Nonriv	/erine)				duced Iron	` '		Crayfish Burrov	
	ce Soil Cracks (B6)		(DZ)			luction in T	illed 50	lis (C6)		ole on Aerial Imagery (C9)
	ation Visible on Aeria		(B7)		uck Surfa		`		_ Shallow Aquita	
	r-Stained Leaves (B9)		Otner (Explain ir	n Remarks)		FAC-Neutral Te	est (D5)
Field Obse										
	ater Present? Ye		No X		h (inches	· ——				
Water Tabl			No X	_ '	h (inches					V
Saturation		s <u>X</u>	No	_ Dept	h (inches): surfac	ce	Wetland Hydi	rology Present?	Yes <u>X</u> No
	apillary fringe) corded Data (stream	naline m	nitoring w	ell aeria	l nhotos	nrevious ir	enectio	ns) if available:		
Describe Nec	Bolded Data (Stream)	gauge, m	officining w	cii, acria	i priotos,	previous ii	ispectio	iis), ii avallable.		
Remarks:										

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site:	Carmenere Estates	;		City/County:	Town of Lo	oomis, Plac	cer Cou	nty	Sar	mpling Dat	te:	04/25/23
Applicant/Owner:	Building Engineerin	ig and Managem	ent, Inc.				State:	CA	Sar	mpling Poi	int: DP2	
Investigator(s):	Daria Snider			Section	n, Township	, Range:	Section	n 8,Townsh	ոip 11 N	orth, Ranç	je 7 East	
Landform (hillslop	e, terrace, etc.):	Topographic sv	wale	Local re	elief (concav	/e, convex,	none):	Concave			Slope (%):	2-5
Subregion (LRR):	Mediterranean Cali	fornia (LRR C)	Lat:		38.	.8122387	Long:		-121.2	2246078	Datum:	: NAD 83
Soil Map Unit Nar	ne: <u>106 - Andre</u>	gg coarse sandy	loam, 2 to 9%	6 slopes		1	VWI Cla	ssification	None			
Are climatic / hydi	rologic conditions on	the site typical fo	or this time of	year?	Yes		No	X	(If no,	explain in	n Remarks.	.)
Are Vegetation	, Soil	, or Hydrology		significantly	disturbed?	Are "N	lormal C	Circumstan	ces" pre	esent?	Yes X	No
Are Vegetation	, Soil	, or Hydrology		naturally pro	blematic?	(If need	ded, exp	olain any a	nswers i	in Remark	is.)	
SUMMARY O	FINDINGS - A	ttach site ma _l	showing	sampling _l	point loca	ations, tr	ansec	cts, impo	rtant f	eatures	, etc.	
Hydrophytic Vege	tation Present?	Yes X 1	No									
Hydric Soil Prese		Yes X	No		mpled Area Wetland?	а	Yes	X	No			
Wetland Hydrolog	y Present?	Yes X	No	within a	wellanur							
Remarks:			-									
	easonal wetland swa			n normal.								
						Τ						
			Absolute % Cover	Dominant Species?	Indicator Status			st workshe				
Tree Stratum	(Plot size:)	70 COVE	Opecies:				inant Spec ACW, or F				
1									_		2	_(A)
2								Dominant				
3						Species	ACIOSS	All Strata:	_		2	_(B)
4								nant Speci			-01	(4 (5)
			0	=Total Cover		That Are	OBL, F	ACW, or F	AC:	10	0%	_(A/B)
Conling/Chrub	Stratum (Diat aiza:	`				Drovolor	oo Inda	ex Worksh			-	
Sapiing/Shrub	Stratum (Plot size: _)							ieet:	N.A. al+iv	alu bu	
1			-			OBL spe	al % Co	50	x1 =		oly by: 50	=
2						FACW spec		10	^1 = _ x2 =		20	-
٥						FAC spec		30	^2 =_ x3 =		90	-
5.						FACU sp		10	^3 = _ x4 =		10	-
J			0	=Total Cover		UPL spec		0	^= _ x5 =		0	=
Herh Stratum	(Plot size:1 met	rer ²		Total Gover		Column			(A)		00	(B)
Montia fonta	•	<u></u> /	50	Χ	OBL			dex = B/A				_(5)
2. Poa annua	,,,,		30	X	FAC	11074	01100 111	dox Birt				-
3. Anthemis co	tula		10		FACU	Hydroph	vtic Ve	getation li	ndicato	rs:		
4. Ranunculus			10		FACW	-	-	ance Test i				
_			-					ence Index				
6		_	-								le supportir	na
7			-					Remarks				19
0			-								n ¹ (Explain)
_			100	=Total Cover	-			,	. ,	Ü	` '	,
4	ratum (Plot size:							dric soil an ss disturbe			gy must	
0						Hydroph	vtic					
_				=Total Cover	-	Vegetati						
% Bare Ground	d in Herb Stratum	0	% Cover of	Biotic Crust	0	Present?			Yes	X	No	
Remarks:												

Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type¹ Loc² Texture Remarks 0-2 10YR 3/2 100 sandy loam sandy clay loam 2-6 7.5YR 3/1 90 7.5YR 3/4 10 C PL sandy clay loam		
0-2 10YR 3/2 100 sandy loam		
2-6 7.5YR 3/1 90 7.5YR 3/4 10 C PL sandy clay loam		
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix.		
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ :		
Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C)		
Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B)		
Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18)		
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2)		
Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks)		
1 cm Muck (A9) (LRR D) X Redox Dark Surface (F6)		
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)		
Thick Dark Surface (A12) Redox Depressions (F8) 3Indicators of hydrophytic vegetation	n and	
Sandy Mucky Mineral (S1) Vernal Pools (F9) wetland hydrology must be prese		
Sandy Gleyed Matrix (S4) unless disturbed or problematic		
Restrictive Layer (if present):		
Type:		
Depth (inches): Hydric Soil Present? Yes X	No	
Remarks:		
Tomano.		
HYDROLOGY		
HYDROLOGY Wetland Hydrology Indicators:		
	equired)	
Wetland Hydrology Indicators:		
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required))	
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more regulated) Surface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine)	verine)	
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more regulators) Surface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine) High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) X Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) (Riverine)	verine)	
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more regions) Surface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine) High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) X Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10)	verine)	
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Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more regiment of the property of the p	perine)	
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more regiment of the property of the p	perine)	
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more regiment of the property of the p	perine)	
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Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more regulators) Surface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine) High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) (Riverine) Sediment Deposits (B2) (Nonriverine) X Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): <td col<="" td=""><td>rerine) 2) magery (C9)</td></td>	<td>rerine) 2) magery (C9)</td>	rerine) 2) magery (C9)
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Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more regulated; check all that apply) Surface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine) High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) X Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2 Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Irangery (B7) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes X Gincludes capillary fringe) Describe Recorded Data (rerine) 2) magery (C9)	

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site:	Carmenere Estates	5		City/County:	Town of Lo	omis, Pla	cer Cour	nty	San	npling Dat	te:	04/25/23
Applicant/Owner:	Building Engineerin	ng and Manage	ement, Inc.	•			State:	CA	_ San	npling Poi	nt: DP3	3
Investigator(s):	Daria Snider			Section	n, Township	, Range:	Section	8,Townsh	nip 11 No	orth, Rang	je 7 Eas	t
Landform (hillslop	e, terrace, etc.):	Topographic	swale	Local re	elief (concav	e, convex	, none):	Concave			Slope (%): <u>2-5</u>
Subregion (LRR):	Mediterranean Calif	fornia (LRR C)	Lat:		38.8	1225613	Long:		-121.2	246253	Datu	m: <u>NAD 83</u>
Soil Map Unit Nan	ne: 106 - Andre	gg coarse san	 dy loam, 2 to 9%	6 slopes			_	ssification				
Are climatic / hydr	ologic conditions on	the site typical	for this time of	year?	Yes		No	Х	(If no,	explain in	Remark	(s.)
Are Vegetation	, Soil	, or Hydrolog	ЭУ	significantly	disturbed?	Are "N	lormal Ci	ircumstan	_ ces" pre	sent?	es X	(No
Are Vegetation	, Soil	, or Hydrolog	ЭУ	naturally pro	blematic?	(If nee	ded, expl	lain any a	nswers i	n Remark	s.)	
SUMMARY OF	F FINDINGS - A	ttach site m	ap showing	sampling	point loca	ations, t	ransect	ts, impo	rtant f	eatures	, etc.	
Hydrophytic Vege	tation Present?	Yes X	No									
Hydric Soil Preser		Yes X	No No		mpled Area	3	Yes	Х	No			
Wetland Hydrolog		Yes X	No	within a	Wetland?		-					
Remarks:		-		:								
	to be an upland com - Use scientific			t a wetland. F	Rain year mu	uch wetter	than noi	rmal.				
VEGETATION	- Ose scientinic	, names or p		<u> </u>		B			-1			
			Absolute % Cover	Dominant Species?	Indicator Status			t workshe				
Tree Stratum	(Plot size:)	70 00001	- — — — —				nant Spec ACW, or F				
1			<u> </u>						_		2	(A)
2								Dominant				
3			<u> </u>			Species	ACI 055 P	All Strata:	_		3	(B)
4			0	=Total Cover	<u> </u>			ant Speci ACW, or F		67	' %	(A/B)
Sanling/Shrub	Stratum (Plot size:	1				Prevaler	nce Inde	x Worksh	neet:			
1	<u> </u>	/					al % Cov		.001.	Multir	oly by:	
2			<u> </u>	· 		OBL spe		0	x1 =))	
3.						FACW s	_	10	x2 =		0	
4.			-			FAC spe	_	50	x3 =		50	
5.						FACU sp	_	30	x4 =	12	20	
			0	=Total Cover	r	UPL spe	cies	0	x5 =)	
Herb Stratum	(Plot size:1 met	ter ² _)		•		Column	Totals:	90	(A)	29	90	(B)
1. Anthemis co.	tula ———		25	Χ	FACU		_	lex = B/A	= ' -	3.2		
2. Poa palustris	5		30	X	FAC							
3. Poa annua			20	Х	FAC	Hydroph	ytic Veg	getation li	ndicator	s:		
4. Festuca myu	iros		5		FACU	X	Domina	nce Test i	is >50%			
5. Sisymbrium	officinale		Т		UPL		Prevale	nce Index	is ≤3.0	I		
6. <i>Persicaria sp</i>	pecies		T		OBL		Morphol	logical Ad	aptation	s ¹ (Provid	e suppo	rting
7. <u>Ranunculus</u>	muricatus		10		FACW		data in I	Remarks	or on a s	eparate s	heet)	•
8. Trifolium cilio	olatum		T		UPL		Problem	natic Hydr	ophytic \	/egetatior	า ¹ (Expla	in)
			90	=Total Cover	r							
Woody Vine St	ratum (Plot size:)	<u> </u>					lric soil an			gy must	
1			<u> </u>			be prese	nt, unles	s disturbe	d or prol	blematic.		
2						Hydroph	nytic					
				=Total Cover		Vegetati	on					
	I in Herb Stratum	0	% Cover of	Biotic Crust	0	Present	?		Yes_	X	No	
Remarks:												

Profile Des	scription: (Describe	to the d	epth need	ed to do	cument	the indica	tor or c	onfirm the abse	nce of indicators.)
Depth	Matrix			Re	edox Feat	tures				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	 Texture		Remarks
0-2	10YR3/2	100		,				loamy sand		
2-6	7.5YR3/1	90	7.5YR3/4	4	10	С	PL	loamy sand		
¹ Type: C=C	oncentration, D=Deplet	ion, RM=R	educed Mat	rix, CS=C	overed or	Coated Sar	nd Grains	s. ² Location: PL=F	Pore Lining, M=Matrix	<u>ζ</u>
								1. 1	B. I.I (C. II.	11.0.11.3
1	il Indicators: (Appli	cable to a	ili LKKS, ι			•			r Problematic Hy	aric Soils":
	sol (A1)			-	Redox (S	-			uck (A9) (LRR C)	
	Epipedon (A2)				d Matrix (-			uck (A10) (LRR B)	
	Histic (A3)			-	-	ineral (F1)			d Vertic (F18)	
	ogen Sulfide (A4)	\		-	-	//atrix (F2)			rent Material (TF2)	
	fied Layers (A5) (LRF	(C)			ed Matrix			Other (E	Explain in Remarks	5)
	Muck (A9) (LRR D)	(8.4.4)	<u>X</u>			face (F6)				
· — ·	eted Below Dark Surfa	ace (A11)				Surface (F7	()			
	Dark Surface (A12)				Depressi				, ,	ytic vegetation and
	y Mucky Mineral (S1)			vernai	Pools (F9	9)		V	vetland hydrology i	
	y Gleyed Matrix (S4)								unless disturbed	or problematic.
Restrictive	Layer (if present):									
Type:										
Depth (inch	nes):						H	lydric Soil Prese	ent?	res X No
Remarks:							ı			
HYDROLOG	v									
		·								
	ydrology Indicators		مام مام بام مس	- II 4b - 4 -				0.4		- (O av maana namuinad)
	dicators (minimum of	one requi	rea; cneck							s (2 or more required)
	ce Water (A1)				ust (B11)				_ Water Marks (E	, ,
	Water Table (A2)				Crust (B12	•			_	osits (B2) (Riverine)
	ation (A3)	- wi \				rates (B13	-		_ Drift Deposits (
	r Marks (B1) (Nonriv	•		-		e Odor (C1	•		_ Drainage Patte	, ,
	nent Deposits (B2) (N		ie) <u>X</u>				-	g Roots (C3)	_ Dry-Season Wa	
	Deposits (B3) (Nonriv	/erine)				duced Iron	` '		Crayfish Burrov	
	ce Soil Cracks (B6)		(DZ)			luction in T	illed 50	lis (C6)		ole on Aerial Imagery (C9)
	ation Visible on Aeria		(B7)		uck Surfa		`		_ Shallow Aquita	
	r-Stained Leaves (B9)		Otner (Explain ir	n Remarks)		FAC-Neutral Te	est (D5)
Field Obse										
	ater Present? Ye		No X		h (inches	· ——				
Water Tabl			No X	_ '	h (inches					V
Saturation		s <u>X</u>	No	_ Dept	h (inches): surfac	ce	Wetland Hydi	rology Present?	Yes <u>X</u> No
	apillary fringe) corded Data (stream	naline m	nitoring w	ell aeria	l nhotos	nrevious ir	enectio	ns) if available:		
Describe Nec	Bolded Data (Stream)	gauge, m	officining w	cii, acria	i priotos,	previous ii	ispectio	iis), ii avallable.		
Remarks:										

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site:	Carmenere Estates	3		City/County:	Town of Lo	oomis, Placer Co	unty	San	npling Dat	e:	04/26/23
Applicant/Owner:	Building Engineering	ng and Managem	nent, Inc.			State:	CA	San	npling Poi	nt: <u>DP4</u>	
Investigator(s):	Daria Snider			Section	n, Township	, Range: Section	n 8,Townshi	p 11 No	orth, Rang	e 7 East	
Landform (hillslop	oe, terrace, etc.):	Terrace		Local re	elief (concav	e, convex, none)	: None		s	lope (%):	1-3
Subregion (LRR):	Mediterranean Cali	fornia (LRR C)	Lat:		38.8	1289483 Long	: <u></u>	-121.2	2218657	Datum	: NAD83
Soil Map Unit Nar	me: <u>106 - Andre</u>	egg coarse sandy	/ loam, 2 to 9%	% slopes		NWI CI	assification:	None			
Are climatic / hydi	rologic conditions on	the site typical for	or this time of	year?	Yes	No	X	(If no,	explain in	Remarks	.)
Are Vegetation	, Soil	, or Hydrology	,	significantly	disturbed?	Are "Normal	Circumstanc	es" pre	sent? Y	es X	No
Are Vegetation	, Soil			naturally pro	blematic?	(If needed, ex	plain any an	swers in	n Remark	s.)	
SUMMARY O	F FINDINGS - A	ttach site ma	p showing	sampling	point loca	ations, transe	cts, impor	tant fo	eatures,	etc.	
Hydrophytic Vege Hydric Soil Prese	nt?		No X		ampled Area	a Yes		No_	х		
Wetland Hydrolog	gy Present?	Yes	NoX	-							
Remarks:				- L							
	ydrophytic vegetatior - Use scientific			normal.							
			Absolute	Dominant	Indicator	Dominance Te	et workeho				
T 0, ,	(D) ()	,	% Cover	Species?	Status	Number of Don					
Tree Stratum	(Plot size:)				That Are OBL,					
1								_	1		_(A)
2						Total Number of					
3						Species Across	All Silaia.	_	2	<u>.</u>	_(B)
4						Percent of Dom					
			0	=Total Cove	r	That Are OBL,	FACW, or FA	۱C: _	50	%	_(A/B)
Sapling/Shrub	Stratum (Plot size: _)				Prevalence Inc	lex Worksh	et:			
1						Total % C	over of:		Multip	ly by:	_
2						OBL species	0	x1 = _	0	<u> </u>	_
3						FACW species	45	x2 = _	9(<u>) </u>	_
4						FAC species	15	x3 =	4	5	_
5						FACU species	35	x4 =	14	.0	_
			0	=Total Cove	r	UPL species	5	x5 =	2	5	_
	(Plot size:1 met	<u>ter</u> 2)				Column Totals:	100	(A)	30	0	_(B)
1. Ranunculus	muricatus		45	X	FACW	Prevalence I	ndex = B/A =		3.0		_
2. Anthemis co	tula		35	X	FACU						
3. <i>Poa annua</i>			15		FAC	Hydrophytic V	egetation In	dicator	s:		
4. Bromus hord	deaceus		T		FAC	Domir	nance Test is	>50%			
5. Capsella bu i	rsa-pastoris		T		FACU	X Preva	lence Index i	s ≤3.0 ¹	i		
6. Sisymbrium	officinale		5		UPL	Morph	ological Ada	ptations	s¹ (Provide	e supporti	ng
7. <u>Erodium mo</u>	schatum		T		UPL	data ii	n Remarks o	r on a s	eparate s	neet)	-
8. <u>Hordeum mi</u>	urinum		T		FACU	Proble	ematic Hydro	phytic ∖	/egetation	¹ (Explain	1)
			100	=Total Cove	r						
Woody Vine St	tratum (Plot size:)				¹ Indicators of hy be present, unle				jy must	
2						Hydrophytic					
				=Total Cove	r	Vegetation					
% Bare Ground	d in Herb Stratum	0	% Cover of	Biotic Crust	0	Present?		Yes_	X	No	
Remarks:						I					

Depth	Matrix			Redox Fea		_				
inches)	Color (moist)	<u>%</u>	Color (moist) %	Type ¹	Loc ²	Texture		Remar	ks
12	10YR 3/2	100					sandy loar	<u> </u>		
	-									
										
								<u> </u>		
ype: C=C	oncentration, D=Depletion	n, RM=Red	uced Matrix, CS	S=Covered o	r Coated San	d Grains.	² Location: Pl	L=Pore Lining, M=M	atrix.	
ydric Soi	I Indicators: (Applica	able to all	LRRs, unless	s otherwise	e noted.)		Indicators	s for Problematic	Hydric Soils	3.
Histos	sol (A1)		San	dy Redox (S5)		1 cm	Muck (A9) (LRR	C)	
Histic	Epipedon (A2)		Strip	ped Matrix	(S6)		2 cm	Muck (A10) (LRR	B)	
Black	Histic (A3)		Loa	my Mucky N	Mineral (F1)		Redu	uced Vertic (F18)		
Hydro	gen Sulfide (A4)		Loa	my Gleyed	Matrix (F2)		Red	Parent Material (T	F2)	
Stratif	ied Layers (A5) (LRR	C)	Dep	leted Matrix	(F3)		Othe	r (Explain in Rema	arks)	
_ 1 cm l	Muck (A9) (LRR D)		Red	ox Dark Su	rface (F6)					
Deple	ted Below Dark Surfac	e (A11)	Dep	leted Dark	Surface (F7))				
_ Thick	Dark Surface (A12)		Red	ox Depress	sions (F8)		3	Indicators of hydro	onhytic vegets	ation and
Sandy	/ Mucky Mineral (S1)		Verr	nal Pools (F	9)			wetland hydrolog		
Sandy	/ Gleyed Matrix (S4)							unless disturb		
estrictive	Layer (if present):									
уре:										
epth (inch	indicators observed.					Ну	rdric Soil Pre	esent?	Yes	No
epth (inch marks: hydric soil	indicators observed.					Ну	rdric Soil Pre	esent?	Yes	No
epth (inch narks: hydric soil	indicators observed.					ну	rdric Soil Pre	esent?	Yes	No
epth (inch marks: hydric soil DROLOG	indicators observed. Y ydrology Indicators:	ne require	d: check all th	at apply)		Ну	rdric Soil Pre			
epth (inch narks: hydric soil DROLOG /etland H	Y ydrology Indicators:	ne require)	Ну	rdric Soil Pre	Secondary Indica	tors (2 or mor	e required)
epth (inch narks: hydric soil DROLOG /etland H rimary Ind	Y ydrology Indicators: licators (minimum of orce Water (A1)	ne require	Salt	Crust (B11	-	Ну	rdric Soil Pre	Secondary Indica Water Mark	ntors (2 or mor s (B1) (Riveri	e required)
epth (inch narks: hydric soil DROLOG /etland H rimary Ind Surfac High \	Y ydrology Indicators: licators (minimum of or the Water (A1) Nater Table (A2)	ne require	Salt	Crust (B11 ic Crust (B1	12)		rdric Soil Pre	Secondary Indica Water Mark Sediment D	tors (2 or mor s (B1) (Riveri eposits (B2) (e required) ne) Riverine)
epth (inch narks: hydric soil DROLOG /etland H rimary Ind Surfac High \	Y ydrology Indicators: licators (minimum of or one Water (A1) Water Table (A2) ation (A3)	·	Salt Biot Aqu	Crust (B11 ic Crust (B1 atic Invertel	l2) brates (B13)		rdric Soil Pre	Secondary Indica Water Mark Sediment D	tors (2 or mor s (B1) (Riveri eposits (B2) (l ts (B3) (River	e required) ne) Riverine)
DROLOG Vetland H Surfac High \ Satura Water	y ydrology Indicators: licators (minimum of or ce Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonriver	rine)	Salt Biot Aqu Hyd	Crust (B11 ic Crust (B1 atic Invertel rogen Sulfic	l2) brates (B13) de Odor (C1)		Secondary Indica Water Mark Sediment D Drift Deposi Drainage Pa	tors (2 or mor s (B1) (Riveri eposits (B2) (l ts (B3) (River atterns (B10)	re required) ne) Riverine) ine)
DROLOG Vetland H Surfac High \ Satura Water Sedim	y ydrology Indicators: licators (minimum of or ce Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonriver ment Deposits (B2) (No	rine) nriverine	Salt Biot Aqu Hyd Oxio	Crust (B11 ic Crust (B1 atic Invertel rogen Sulfic dized Rhizo	l2) brates (B13) de Odor (C1 spheres alor))) ng Living		Secondary Indica Water Mark Sediment D Drift Deposi Drainage Pa	otors (2 or mor s (B1) (Riveri eposits (B2) (I ts (B3) (River atterns (B10) Water Table	re required) ne) Riverine) ine)
DROLOG Vetland H rimary Ind Surfac High V Satura Water Sedim Drift E	y ydrology Indicators: licators (minimum of or ce Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonriver	rine) nriverine	Salt Biot Aqu Hyd Oxid	Crust (B11 ic Crust (B1 atic Invertel rogen Sulfic dized Rhizosence of Re	l2) brates (B13) de Odor (C1 spheres alor educed Iron ()) ng Living (C4)	Roots (C3)	Secondary Indica Water Mark Sediment D Drift Deposi Drainage Pa Dry-Season Crayfish Bu	otors (2 or mor s (B1) (Riveri eposits (B2) (I ts (B3) (River atterns (B10) Water Table	e required) ne) Riverine) ine)
DROLOG /etland H rimary Ind Surfac High \ Satura Water Sedim Drift E Surfac	y ydrology Indicators: licators (minimum of or ce Water (A1) Nater Table (A2) ation (A3) Marks (B1) (Nonriver nent Deposits (B2) (No	rine) nriverine rine)	Salt	Crust (B11 ic Crust (B1 atic Inverted rogen Sulficed Rhizosence of Resence Iron Reserved	brates (B13) de Odor (C1 spheres alor educed Iron (duction in Ti)) ng Living (C4)	Roots (C3)	Secondary Indica Water Mark Sediment D Drift Deposi Drainage Pa Dry-Season Crayfish Bu	ators (2 or mor s (B1) (River i eposits (B2) (l ts (B3) (River atterns (B10) Water Table rrows (C8) /isible on Aeri	e required) ne) Riverine) ine)
DROLOG Vetland H Surfac Satura Water Sedim Drift E Surfac Inund	y ydrology Indicators: licators (minimum of or ce Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonriver ment Deposits (B2) (No Deposits (B3) (Nonrive ce Soil Cracks (B6)	rine) nriverine rine)	Salt Biot Aqu Hyd Oxic Pres Rec 37) Thir	Crust (B11 ic Crust (B1 atic Invertel rogen Sulfic dized Rhizosence of Reent Iron Re	brates (B13) de Odor (C1 spheres alor educed Iron (duction in Ti)) ng Living (C4) illed Soils	Roots (C3)	Secondary Indica Water Mark Sediment D Drift Deposi Drainage Pa Dry-Season Crayfish Bu	ators (2 or mor s (B1) (Riveri eposits (B2) (I ts (B3) (River atterns (B10) Water Table rrows (C8) /isible on Aerialitard (D3)	e required) ne) Riverine) ine)
DROLOG /etland H rimary Ind Surfac High \ Satura Water Sedim Drift E Surfac Inunda	y ydrology Indicators: licators (minimum of or ce Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonriver ment Deposits (B2) (No Deposits (B3) (Nonrive ce Soil Cracks (B6) ation Visible on Aerial	rine) nriverine rine)	Salt Biot Aqu Hyd Oxic Pres Rec 37) Thir	Crust (B11 ic Crust (B1 atic Invertel rogen Sulfic dized Rhizosence of Reent Iron Re	brates (B13) de Odor (C1 spheres alor educed Iron (duction in Ti)) ng Living (C4) illed Soils	Roots (C3)	Secondary Indica Water Mark Sediment D Drift Deposi Drainage Pa Dry-Season Crayfish Bu Saturation V	ators (2 or mor s (B1) (Riveri eposits (B2) (I ts (B3) (River atterns (B10) Water Table rrows (C8) /isible on Aerialitard (D3)	e required) ne) Riverine) ine)
DROLOG Vetland H Trimary Ind Surfac High V Sedim Drift E Surfac Inund Water	yyydrology Indicators: licators (minimum of or ce Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonriverset (B2) (Nonriverset (B3) (Nonriverset (B3) (Nonriverset (B4)) Marks (B5) (Nonriverset (B6)) Marks (B6) (Nonriverset (B6)) Marks (B7) (Nonriverset (B6)) Marks (B8) (Nonriverset (B9))	rine) nriverine rine) Imagery (E	Salt	Crust (B11 ic Crust (B1 atic Invertel rogen Sulfic dized Rhizo sence of Reent Iron Reent	brates (B13) de Odor (C1 spheres alor educed Iron (duction in Ti face (C7) in Remarks))) ng Living (C4) illed Soils	Roots (C3)	Secondary Indica Water Mark Sediment D Drift Deposi Drainage Pa Dry-Season Crayfish Bu Saturation V	ators (2 or mor s (B1) (Riveri eposits (B2) (I ts (B3) (River atterns (B10) Water Table rrows (C8) /isible on Aerialitard (D3)	e required) ne) Riverine) ine)
DROLOG Vetland H Surfac Water Sedim Drift E Surfac Inund Water ield Obse	yyydrology Indicators: licators (minimum of or one Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonriverse (B2) (Nonriverse (B3) (Nonriverse (B4)) Deposits (B3) (Nonriverse (B6)) Action Visible on Aerial (Castained Leaves (B9)) Arvations:	rine) nriverine rine) Imagery (E	Salt Biot Aqu Hyd Hyd Pres Rec 37) Thir Othe No X D	Crust (B11 ic Crust (B1 atic Invertel rogen Sulfic dized Rhizosence of Reent Iron Iron Reent Iron Iron Iron Iron Iron Iron Iron Iron	brates (B13) de Odor (C1 spheres alor educed Iron (duction in Ti face (C7) in Remarks))) ng Living (C4) illed Soils	Roots (C3)	Secondary Indica Water Mark Sediment D Drift Deposi Drainage Pa Dry-Season Crayfish Bu Saturation V	ators (2 or mor s (B1) (Riveri eposits (B2) (I ts (B3) (River atterns (B10) Water Table rrows (C8) /isible on Aerialitard (D3)	e required) ne) Riverine) ine)
DROLOG Vetland H rimary Ind Surfac High \ Satura Water Sedim Drift E Surfac Inund: Water ield Obse	y ydrology Indicators: licators (minimum of or ce Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonriver ment Deposits (B2) (No Deposits (B3) (Nonriver ce Soil Cracks (B6) ation Visible on Aerial -Stained Leaves (B9) ervations: ater Present? Yes e Present? Yes	rine) nriverine rine) Imagery (E	Salt Biot Aqu Hyd Oxio Pres Rec 37) Thir Otho No X D	Crust (B11 ic Crust (B1 atic Inverted rogen Sulficed Rhizonsence of Resence of Resence of Resent Iron Iron Iron Iron Iron Iron Iron Iron	brates (B13) de Odor (C1 spheres alor educed Iron (duction in Ti face (C7) in Remarks) s):)) ng Living (C4) illed Soils	Roots (C3)	Secondary Indica Water Mark Sediment D Drift Deposi Drainage Pa Dry-Season Crayfish Bu Saturation V Shallow Aqu FAC-Neutra	ators (2 or mor s (B1) (River i eposits (B2) (I ts (B3) (River atterns (B10) Water Table rrows (C8) /isible on Aeri aitard (D3)	e required) ne) Riverine) ine)
DROLOG Vetland H rimary Ind Surfac High \ Satura Water Drift E Surfac Inund: Water Ield Obse urface Wa vater Tabl aturation I	y ydrology Indicators: licators (minimum of or ce Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonriver ment Deposits (B2) (No Deposits (B3) (Nonriver ce Soil Cracks (B6) ation Visible on Aerial -Stained Leaves (B9) ervations: ater Present? Yes e Present? Yes apillary fringe)	rine) nriverine rine) Imagery (E	Salt	Crust (B11 ic Crust (B1 atic Invertel rogen Sulfic dized Rhizo sence of Re ent Iron Re Muck Surf er (Explain i epth (inchese epth (inchese	brates (B13) de Odor (C1 spheres alor educed Iron (duction in Ti face (C7) in Remarks) s): s):)) ng Living (C4) illed Soils	Roots (C3)	Secondary Indica Water Mark Sediment D Drift Deposi Drainage Pa Dry-Season Crayfish Bu Saturation V Shallow Aqu FAC-Neutra	ators (2 or mor s (B1) (River i eposits (B2) (I ts (B3) (River atterns (B10) Water Table rrows (C8) /isible on Aeri aitard (D3)	re required) ne) Riverine) ine) (C2) al Imagery (C
DROLOG Vetland H Trimary Ind Satura Water Sedim Drift E Surfac Inund: Water Ield Obse	y ydrology Indicators: licators (minimum of or ce Water (A1) Nater Table (A2) ation (A3) Marks (B1) (Nonriver ment Deposits (B2) (No Deposits (B3) (Nonriver ce Soil Cracks (B6) ation Visible on Aerial s-Stained Leaves (B9) ervations: ater Present? Yes Present? Yes	rine) nriverine rine) Imagery (E	Salt	Crust (B11 ic Crust (B1 atic Invertel rogen Sulfic dized Rhizo sence of Re ent Iron Re Muck Surf er (Explain i epth (inchese epth (inchese	brates (B13) de Odor (C1 spheres alor educed Iron (duction in Ti face (C7) in Remarks) s): s):)) ng Living (C4) illed Soils	Roots (C3)	Secondary Indica Water Mark Sediment D Drift Deposi Drainage Pa Dry-Season Crayfish Bu Saturation V Shallow Aqu FAC-Neutra	ators (2 or mor s (B1) (River i eposits (B2) (I ts (B3) (River atterns (B10) Water Table rrows (C8) /isible on Aeri aitard (D3)	re required) ne) Riverine) ine) (C2) al Imagery (C
DROLOG Vetland H Primary Ind Surfac High \ Satura Water Sedim Drift E Surface Inund Water Tabl Saturation I includes cascribe Rec	y ydrology Indicators: licators (minimum of or ce Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonriver ment Deposits (B2) (No Deposits (B3) (Nonriver ce Soil Cracks (B6) ation Visible on Aerial -Stained Leaves (B9) ervations: ater Present? Yes e Present? Yes apillary fringe)	rine) nriverine rine) Imagery (E	Salt	Crust (B11 ic Crust (B1 atic Invertel rogen Sulfic dized Rhizo sence of Re ent Iron Re Muck Surf er (Explain i epth (inchese epth (inchese	brates (B13) de Odor (C1 spheres alor educed Iron (duction in Ti face (C7) in Remarks) s): s):)) ng Living (C4) illed Soils	Roots (C3)	Secondary Indica Water Mark Sediment D Drift Deposi Drainage Pa Dry-Season Crayfish Bu Saturation V Shallow Aqu FAC-Neutra	ators (2 or mor s (B1) (River i eposits (B2) (I ts (B3) (River atterns (B10) Water Table rrows (C8) /isible on Aeri aitard (D3)	re required) ne) Riverine) ine) (C2) al Imagery (C
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WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site:	Carmenere Estate	S		City/County:	Town of Lo	omis, Pla	cer Coun	ity	Sam	npling Dat	te:	04/26/23
Applicant/Owner:	Building Engineeri	ng and Managem	ent, Inc.				State: 0	CA	Sam	ipling Poi	int: DP5	
Investigator(s):	Daria Snider			Section	n, Township	, Range:	Section	8,Townshi	p 11 Nc	orth, Ranç	յе 7 East	
Landform (hillslop	oe, terrace, etc.):	Terrace		Local re	elief (concav	e, convex	, none): <u>1</u>	None			Slope (%):	1-3
Subregion (LRR):	: Mediterranean Cal	ifornia (LRR C)	Lat:		38.8	1291601	Long:		-121.2	215809	Datum	n: NAD83
Soil Map Unit Nar	me: 106 - Andre	egg coarse sandy	loam, 2 to 99	% slopes			NWI Clas	sification:	None			
Are climatic / hyd	rologic conditions or	the site typical fo	or this time of	year?	Yes		No	X	(If no,	explain in	Remarks	s.)
Are Vegetation	, Soil	, or Hydrology		significantly	disturbed?	Are "N	Normal Ci	rcumstanc	es" pre	sent?	res X	No
Are Vegetation		, or Hydrology		naturally pro		(If nee	ded, expl	ain any an	swers ir	n Remark	(s.)	
SUMMARY O	F FINDINGS – A	attach site ma _l	p showing	sampling	point loca	ations, t	ransect	ts, impor	tant fo	eatures	, etc.	
Hydrophytic Vege	nt?	Yes	No X		ampled Area a Wetland?	a	Yes _		No_	Х		
Wetland Hydrolooู	gy Present?	Yes1	NoX	-								
Remarks:												
	of this depression ar			n normal.								
			Absolute	Dominant	Indicator	Domina	nce Test	workshee				
Trac Stratum	(Diet eize	,	% Cover	Species?	Status			ant Specie				
1 ree Stratum	(Plot size:)		· <u>· · · · · · · · · · · · · · · · · · </u>				ACW, or FA			•	(4)
1. 2			-	· ——		Total Nu	mbor of [Dominant	_		3	_(A)
2							Across A					(D)
3. 4			-	· ——					_		+	_(B)
+			0	=Total Cove				ant Specie ACW, or FA		71	5%	(A/B)
				_ Total Cove	I	That Ale	OBL, I A	CVV, OI 1 A			770	_(A/D)
Sanling/Shrub	Stratum (Plot size:)				Prevale	nce Inde	x Workshe	et.			
1.	Ottatam (1 lot 0120.	/					al % Cov		•••	Multir	oly by:	
·· 2.						OBL spe		0	x1 =		0	_
 3.						FACW s	_	30	x2 =		0 60	_
1						FAC spe	_	50	x3 =		50	_
5.						FACU sp		20	x4 =		30	_
			0	=Total Cove		UPL spe	_		x5 =		0	_
Herb Stratum	(Plot size: 1 m	eter ²)				Column	_	100	(A)	2:	90	(B)
1. Ranunculus		/	30	Χ	FACW		_	ex = B/A =				_ (-/
2. Poa pratens			20	X	FAC							_
3. Poa annua			30	X	FAC	Hydropi	rvtic Vea	etation Inc	dicator	s:		
4. Anthemis co	otula		20	X	FACU	X	-	nce Test is				
5. Festuca my			Т		FACU	X	Prevaler	nce Index i	s ≤3.0 ¹			
6. <i>Matricaria di</i>			T		FACU			ogical Ada			lo cupport	ina
_								ogicai Ada Remarks oi				ing
3.			-					atic Hydro		-	,	n)
-			100	=Total Cove					,	-3	(-,
Woody Vine St	tratum (Plot size: _)			•		•	ric soil and s disturbed		•	gy must	
2.						Hydroph	nytic					
'-				=Total Cover		Vegetati						
% Bare Ground	d in Herb Stratum	0	% Cover of	Biotic Crust	0	Present			Yes	X	No	
Remarks:						1						_

Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Drift Deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (includes capillary fringe)	Profile De	scription: (Describe	to the depth r	eeded to do	cument	the indicate	or or co	onfirm the absence	e of indicators.)	
Secondary Indicators (Papeline) Present? Present	Depth	Matrix		Re	dox Feat	ures		_		
Type: C=Concentration, D=Depetein, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Location: PL=Pore Lining, M=Matrix.	(inches)	Color (moist)	% Co	olor (moist)	%	Type ¹	Loc ²	Texture		Remarks
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosoi (A1) Sandy Redox (S5) Histosoi (A2) Simpled Matrix (S6) Black Histo (A3) Loamy Mucky (Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Trink Dark Surface (A11) Depleted Dark Surface (F6) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Hydric Soil Present? Wetland Hydrology Indicators: No hydric soil indicators observed. Hydric Soil Present? Wetland Hydrology Indicators (2 or more required) High Water Table (A2) Saturation (A3) Mater Marks (B1) (Nonriverine) Hydrogen Sulfide Cdor (C1) Saturation (A3) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Cdor (C1) Surface Soil Cracks (B6) Feecent from Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Feecent from Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Feecent Feecend (C7) Surface Soil Cracks (B6) Feecent from Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Feecent from Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Feecent from Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Correction Research (C2) Surface Soil Cracks (B6) Feecent from Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Feecent from Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Feecent from Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Feecent from Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Feecent from Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Feecent from Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Feecent from Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Feecent from Reduction in	0-12	10YR 3/2	100			· <u></u> ·		sandy loam		
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Histosco (A1) Histosco (A2) Histo Epipedon (A2) History E	Ukadala Oa	!! !!! /A!!	-1-1-4111.101	3	la a			l	D.,, b.l.,,	Jul - 0 - 11 - 3.
Histic Epipedon (A2)	=		able to all LRI			-			=	aric Solis":
Black Histic (A3)					-	-				
Hydrogen Sulfide (A4)										
Stratified Layers (A5) (LRR C)		` '			•	, ,				
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Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes				Vernal F	Pools (F	9)				
Type:								ι	ınless disturbed c	or problematic.
Remarks: No hydric soil indicators observed. AyDROLOGY	Restrictiv	e Layer (if present):								
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Remarks:								<u> </u>		
	Describe Re	corded Data (stream g	auge, monitorii	ng well, aerial	photos,	previous ins	pection	s), if available:		
	Remarks:									
No wetland hydrology indicators observed.										
	No wetland h	nydrology indicators ob	served.							

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site:	Carmenere Estates			City/County:	Town of Lo	omis, Pla	cer Cou	ınty	Sampling Date:			04/26/23
Applicant/Owner:	Building Engineering	g and Manageme	nt, Inc.		State: CA			Sampling Point: <u>DP6</u>				
Investigator(s):	Daria Snider			Section	n, Township	o, Range: Section 8,Townsh			nip 11 North, Range 7 East			
Landform (hillslope	e, terrace, etc.):	Topographic sw	/ale	Local re	lief (concav	e, convex	k, none):	Concave		SI	ope (%):	2-5
Subregion (LRR):	Mediterranean Calif	ornia (LRR C)	Lat:		38.8	1150305	Long:		-121.225	53783	Datum:	NAD83
Soil Map Unit Nam	e: <u>106 - Andre</u> g	gg coarse sandy l	oam, 2 to 9%	√ slopes			NWI Cla	assification:	None			
Are climatic / hydro	ologic conditions on the	ne site typical for	this time of y	ear?	Yes		No	X	_(If no, ex	plain in f	Remarks.))
Are Vegetation	, Soil	, or Hydrology		significantly	disturbed?	Are "I	Normal (Circumstan	ces" prese	nt? Ye	es X	No
Are Vegetation	, Soil				blematic?	(If nee	ded, ex	plain any ar	nswers in F	Remarks	.)	
SUMMARY OF	FINDINGS - Att	ach site map	showing s	sampling p	oint loca	tions, tr	ansec	ts, impor	tant feat	ures, e	etc.	
Hydrophytic Vegeta	ation Present?	Yes X N	0									
Hydric Soil Present		Yes X N			mpled Area	a	Yes	Х	No			
Wetland Hydrology			0	- within a	Wetland?						_	
Remarks:				-								
	swale - data point tak	en in lowest part	of the chanr	nel. Rain year	much wette	er than no	rmal.					
VEGETATION -	- Use scientific	names of plar				Ι						
			Absolute % Cover	Dominant Species?	Indicator Status			st workshe				
Tree Stratum	(Plot size:)	76 COVEI	Species:	Status			inant Speci FACW, or F				
1						THAT AIR	OBL, F	ACW, OF F	AC	2		_(A)
2								f Dominant				
3				·		Species	Across	All Strata:		3		_(B)
4						Percent	of Domi	inant Speci	es			
			0	=Total Cover	-	That Are	OBL, F	ACW, or F	AC:	67%	6	(A/B)
Sapling/Shrub	Stratum (Plot size: _)				Prevale	nce Ind	ex Worksh	eet:			
1				·		To	tal % Co	over of:		Multiply	y by:	=
2				·		OBL spe	ecies	0	_x1 =	0		=
3						FACW s		2	_x2 =	4		-
4						FAC spe		60	_x3 =	180)	-
5						FACU s		32	x4 =	128	3	-
			0	=Total Cover	•	UPL spe		5	_x5 =	25		-
	(Plot size:1 mete	er²)				Column		99	_(A)	337	<u>r</u>	_(B)
1. Poa palustris	3		30	<u>X</u>	FAC	Preva	lence In	idex = B/A =	=	3.4		=
2. <u>Poa annua</u>			30	X	FAC							
3. Stellaria med			20	X	FACU		-	egetation Ir				
4. Senecio vulg	garis		T		FACU	X		ance Test is				
5. Rumex sp.	- (('-'1-			· ——				ence Index				
6. Sisymbrium			5	· ——	UPL			ological Ada				ıg
7. Anthemis co			12		FACU			Remarks			. *	
8. Ranunculus			2		FACW		Proble	matic Hydro	ophytic Ve	getation'	(Explain)	1
9. Persicaria s			<u>T</u>	· ——	OBL	4						
10. Capsella bui					FACU			dric soil and ss disturbe			y must	
11. Plantago lan					FAC	be prese	ent, unie	ss disturbe	u or proble	mauc.		
12. Cerastium g	iomeratum		T		UPL	Hydrop	-					
0/ D O	dia llant Ot	^	-	=Total Cover		Vegetat			V	v	N.	
	d in Herb Stratum	0	% Cover of	Biotic Crust _	5	Present			Yes	<u>Х</u> і	No	
Remarks:												
												ļ
												ļ

Profile Des	scription: (Describe t	o the dep	th needed to do	cument t	he indica	tor or c	onfirm the absence of indic	cators.)
Depth	Matrix		Re	edox Feat	ures			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2	10YR 2/1	100					sandy loam	
2-12	10YR 4/1	80	7.5YR 3/4	20	С	PL	sandy clay loam	
•								
¹ Type: C=Co	oncentration, D=Depletion	n, RM=Red	uced Matrix, CS=C	overed or (Coated San	d Grains	. ² Location: PL=Pore Lining, N	∕I=Matrix.
Hydric Soi	I Indicators: (Applica	hle to all	I RRs unless o	thorwise	noted)		Indicators for Problema	atic Hydric Soils ³ :
	sol (A1)	ibio to un		Redox (S	•		1 cm Muck (A9) (LF	<u> </u>
	Epipedon (A2)			d Matrix (-		2 cm Muck (A10) (L	
	Histic (A3)			-	neral (F1)		Reduced Vertic (F1	•
	gen Sulfide (A4)			-	atrix (F2)		Red Parent Materia	
	ied Layers (A5) (LRR (C)		ed Matrix (Other (Explain in R	
	Muck (A9) (LRR D)	- /		Dark Surf	. ,			,
	ted Below Dark Surfac	e (A11)			urface (F7)		
	Dark Surface (A12)	` '		Depression	-	,	31 11 1 61	
	/ Mucky Mineral (S1)			Pools (F9				ydrophytic vegetation and rology must be present,
	Gleyed Matrix (S4)			•	,			turbed or problematic.
	Layer (if present):							·
Type:	, ,							
Depth (inch	nes).					_	lydric Soil Present?	Yes X No
Remarks:								
Remarks.								
HYDROLOG	Y							
-	ydrology Indicators:							
Primary Ind	licators (minimum of or	ne require	d; check all that a	ipply)			Secondary Inc	dicators (2 or more required)
Surfac	ce Water (A1)			ust (B11)			Water M	farks (B1) (Riverine)
High \	Water Table (A2)		X Biotic C	Crust (B12)		Sedimer	nt Deposits (B2) (Riverine)
Satura	ation (A3)		Aquatio	Invertebr	ates (B13)	Drift Dep	posits (B3) (Riverine)
	Marks (B1) (Nonriver				Odor (C1			e Patterns (B10)
	nent Deposits (B2) (No					-	· · · · · · · · · · · · · · · · · · ·	son Water Table (C2)
	Deposits (B3) (Nonrive	rine)			uced Iron	` '		Burrows (C8)
	ce Soil Cracks (B6)				uction in T	illed Soi	· · ·	on Visible on Aerial Imagery (C9)
	ation Visible on Aerial l	magery (E	· —	uck Surfac				Aquitard (D3)
Water	r-Stained Leaves (B9)		Other (Explain in	Remarks)	FAC-Ne	utral Test (D5)
Field Obse	ervations:							
Surface Wa	ater Present? Yes		No X Dept	h (inches)	:			
Water Table					:			
Saturation F			No X Dept	h (inches)	:		Wetland Hydrology Pres	sent? Yes X No
	apillary fringe)	ulas man	itaring wall paria	l nhataa n	rovious in	onostio	na) if available:	
Describe Rec	corded Data (stream ga	iuge, mon	itoring well, aeria	i priotos, p	revious in	ispectio	ns), ii avaliable:	
Domorko								
Remarks:								
Remarks.								
Remarks.								
Remarks.								

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site:	Carmenere Estates			City/County:	Town of Lo	oomis, Pla	cer Cour	nty	Samp		04/26/23	
Applicant/Owner:	Building Engineering	g and Manageme	nt, Inc.			State: CA			Samp	ling Point:	DP7	
Investigator(s):	Daria Snider			Section	n, Township	, Range:	Section	8,Townshi	o 11 Nort	th, Range 7	East	
Landform (hillslope	e, terrace, etc.):	Hillslope		Local re	elief (concav	e, convex	(, none):	None		Slope	e (%): 5-	-10
Subregion (LRR):	Mediterranean Calif	ornia (LRR C)	Lat:	_	38.8	1155304	Long:		-121.22	53429 E	Datum: N	AD 83
Soil Map Unit Nam	ne: 106 - Andreg	gg coarse sandy l	<u>–</u> oam, 2 to 9%	6 slopes			NWI Clas	ssification:	None			
Are climatic / hydro	ologic conditions on the	ne site typical for	this time of y	ear?	Yes		No	Χ	(If no, ex	xplain in Rer	marks.)	
Are Vegetation	, Soil	, or Hydrology	·	significantly	disturbed?	Are "N	Normal C	ircumstanc	es" prese	ent? Yes	X N	0
Are Vegetation	, Soil				blematic?			lain any an				
SUMMARY OF	FINDINGS - Att				oint loca	tions, tr	ansect	s, import	ant fea	tures, etc	:_	
Hydrophytic Veget	ation Present?	Yes N	lo X									
Hydric Soil Presen			lo		mpled Area	а	Yes		No	X		
Wetland Hydrology			lo	within a	Wetland?		-		· -		•	
Remarks:	,			•								
	onal wetland swale - ι	upland. Rain year	much wette	r than normal								
VEGETATION	– Use scientific	names of plar	nts.									
			Absolute	Dominant	Indicator	Domina	nce Test	t workshee	t:			
Tree Stratum	(Plot size:)	% Cover	Species?	Status			nant Specie				
1.						That Are	e OBL, FA	ACW, or FA	C:	1	(A	۸)
2.						Total Nu	ımber of	Dominant				
3.						Species	Across A	All Strata:		3	(B	3)
4.						Percent	of Domir	nant Specie	<u></u>			
			0	=Total Cover				ACW, or FA		33%	(A	VB)
				•								•
Sapling/Shrub	Stratum (Plot size: _)				Prevale	nce Inde	x Workshe	et:			
1.						Tot	tal % Cov	ver of:		Multiply by	y:	
2.						OBL spe	ecies	6	x1 =	6		
3.		<u> </u>				FACW s	species	1	x2 =	2		
4.		<u> </u>				FAC spe	ecies	40	x3 =	120		
5.						FACU s	pecies	65	x4 =	260		
			0	=Total Cover	•	UPL spe	ecies	0	x5 =	0		
Herb Stratum	(Plot size: <u>1 mete</u>	<u>er²</u>)				Column	Totals:	112	(A)	388	(B	3)
1. Bromus hore	deaceus		30	X	FACU	Preva	lence Inc	dex = B/A =		3.5		
2. Festuca my	uros		30	X	FACU							
 Festuca per 	ennis		30	X	FAC	Hydropi	hytic Ve	getation Inc	dicators:	ı		
4. Mentha pule	-		1		OBL		Domina	ince Test is	>50%			
5. Anthemis co	tula		5		FACU		Prevale	nce Index i	s ≤3.0 ¹			
6. <i>Poa annua</i>			10		FAC		Morpho	logical Ada	ptations ¹	(Provide su	pporting	
7. Ranunculus	muricatus		1		FACW					parate sheet	•	
8. Eleocharis a	ncicularis		5		OBL		Problen	natic Hydro	phytic Ve	getation¹ (E	xplain)	
9. Geranium d	issectum		T		UPL							
10. Senecio vul	garis		T		FACU					hydrology m	านst	
11						be prese	ent, unles	s disturbed	or proble	ematic.		
12						Hydropi	hytic					
				=Total Cover	-	Vegetat	ion					
% Bare Ground	d in Herb Stratum	0	% Cover of	Biotic Crust _	0	Present	?		Yes	No_	X	_
Remarks:						•						

Profile Des	scription: (Descri	be to the de	oth needed to	o document t	he indica	tor or o	confirm the abse	ence of indicators.)	
Depth	Matrix			Redox Feat	ures				
(inches)	Color (moist)	%	Color (mois	st) %	Type ¹	Loc	² Texture		Remarks
0-4	10YR 3/3	90	10YR 3/4	10	С	PL	sandy loam		
4-12	10YR 4/1	90	10YR 3/4	10	С	PL	loamy sand		
						. <u> </u>			
					-			<u> </u>	
¹ Type: C=Co	oncentration, D=Depl	etion, RM=Red	duced Matrix, C	S=Covered or 0	Coated Sai	nd Grain	s. ² Location: PL=	Pore Lining, M=Matrix.	
Hydric Soi	I Indicators: (App	licable to al	I I RRs. unles	s otherwise	noted.)		Indicators f	or Problematic Hydr	ic Soils ³ :
-	sol (A1)	nouble to ul		ndy Redox (St	-			fuck (A9) (LRR C)	
	Epipedon (A2)			pped Matrix (-			fuck (A10) (LRR B)	
	Histic (A3)			amy Mucky Mi	•)		ed Vertic (F18)	
	gen Sulfide (A4)			amy Gleyed M				arent Material (TF2)	
	ied Layers (A5) (LF	RR C)		pleted Matrix (, ,	'		Explain in Remarks)	
	Muck (A9) (LRR D)			dox Dark Surf					
	ted Below Dark Su			pleted Dark Si		7)			
	Dark Surface (A12			dox Depressio	-	,	2.		
	/ Mucky Mineral (S			nal Pools (F9				ndicators of hydrophyti wetland hydrology mu	
	/ Gleyed Matrix (S4	=		(. 0	,			unless disturbed or	
	Layer (if present)	<u> </u>							'
Type:		-							
Depth (inch							Hydric Soil Pres	ent? Ye	s X No
Remarks:							nyunc son Fres	ent: 10	<u> </u>
HYDROLOG									
	ydrology Indicator								
	licators (minimum c	of one require					<u>s</u>	Secondary Indicators (
	ce Water (A1)			t Crust (B11)			_	Water Marks (B1	, ,
	Water Table (A2)			tic Crust (B12			_		ts (B2) (Riverine)
	ation (A3)			uatic Invertebr	•	•	_	Drift Deposits (B3	, ,
	Marks (B1) (Nonr i			drogen Sulfide			_	Drainage Pattern	
	nent Deposits (B2)			idized Rhizosp		_	ng Roots (C3)	Dry-Season Wate	` '
	Deposits (B3) (Non	•		sence of Red			_	Crayfish Burrows	` ,
	ce Soil Cracks (B6)			cent Iron Redu		Filled So	oils (C6)		on Aerial Imagery (C9)
	ation Visible on Aer		· —	n Muck Surfac			_	Shallow Aquitard	
	r-Stained Leaves (E	39)	Oth	ner (Explain in	Remarks	5)	_	FAC-Neutral Test	t (D5)
Field Obse									
		'es		Depth (inches)					
Water Tabl		'es		Depth (inches)					
Saturation I		'es X	No [Depth (inches)	:4 <u>"</u>		Wetland Hyd	drology Present?	Yes <u>X</u> No
•	apillary fringe) corded Data (strean	n dalide mor	nitoring well o	erial photos in	revious i	nenectic	ne) if available:		
Describe Red	orded Data (Stream	i gauge, moi	illoring well, a	enai priotos, p	nevious ii	ispeciio	ons), ii avallable.		
Remarks:									

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site:	Carmenere Estates	S		City/County: Town of Loomis, Placer County						Sampling Date:				
Applicant/Owner:	Building Engineering	ng and Manageme	ent, Inc.	•			State: 0	CA	Sam	8				
Investigator(s):	Daria Snider			Section	n, Township	, Range:	Section	8,Townshi	p 11 No	rth, Ranç	je 7 Eas	;t		
Landform (hillslop	e, terrace, etc.):	Hillslope		Local re	elief (concav	e, convex	, none): N	None		5	Slope (%	b): <u>5-10</u>		
Subregion (LRR):	Mediterranean Cali	fornia (LRR C)	Lat:		38.8	1163884	Long:_		-121.22	252983	Datu	ım: NAD83		
Soil Map Unit Nar	ne: 106 - Andre	gg coarse sandy	loam, 2 to 9%	6 slopes				sification:						
Are climatic / hydr	ologic conditions on	the site typical fo	r this time of	year?	Yes_		No_	Χ	(If no, e	explain in	Remarl	ks.)		
Are Vegetation	, Soil	, or Hydrology		significantly	disturbed?	Are "۱	Normal Ci	rcumstanc	es" pres	ent? Y	′es <u> </u>	(No		
Are Vegetation	, Soil	, or Hydrology		naturally pro	blematic?	(If nee	ded, expl	ain any ans	swers in	Remark	s.)			
SUMMARY OF	FINDINGS - A	ttach site map	showing	sampling _l	point loca	ations, t	ransect	ts, impor	tant fe	atures	, etc.			
Hydrophytic Vege	tation Present?	Ves N	lo X											
Hydric Soil Preser		Yes N			mpled Area	ā	Yes		No	Х				
Wetland Hydrolog			lo X	within a	Wetland?		_							
Remarks:														
	e than DP 7; repres			in year much	wetter than	normal								
VEGETATION	- Use scientific	c names or pra	s.											
			Absolute	Dominant	Indicator			workshee						
Tree Stratum	(Plot size:)	% Cover	Species?	Status			ant Specie						
1						That Are	OBL, FA	ACW, or FA	····	1	1	(A)		
2								Dominant						
3						Species	Across A	III Strata:	_		4	(B)		
4								ant Specie						
			0	=Total Cover	,	That Are	OBL, FA	ACW, or FA	·C:	25	5%	(A/B)		
0 1: (0)	O (D :	,				D		101 . 1 . 1						
Sapling/Shrub	Stratum (Plot size: _)						x Workshe	et:	N 414i				
1		_		· 		-	tal % Cov				oly by:	_		
2						OBL spe	pecies _		x1 = x2 =		<u>)</u> .0			
J				· 		FAC spe	_		x3 =		5	_		
5						FACU sr	_		x4 =		0 40	_		
			0	=Total Cover		UPL spe	_		x5 =		25			
Herb Stratum	(Plot size:1 met	ter ²)				Column	_	110	(A)		20	(B)		
1. Anthemis co			20	Χ	FACU		· ·	ex = B/A =		3.8		` ′		
2. Festuca myu	ıros		30	X	FACU	İ								
3. Hypochaeris	glabra		20	Χ	UPL	Hydroph	hytic Veg	etation Inc	dicators	5 :				
4. Ranunculus	muricatus		20	X	FACW		Domina	nce Test is	>50%					
5. Hordeum mu	ırinum		10		FACU	Ì	Prevaler	nce Index is	s ≤3.0 ¹					
6. Sisymbrium	officinale		5		UPL	İ	Morphol	ogical Ada	ptations	1 (Provid	e suppo	rting		
7. Festuca pere			5		FAC			Remarks or		-	,			
8. Centaurea s			T		UPL	İ	Problem	atic Hydro	phytic V	egetatior	า ¹ (Expla	ain)		
9. Erodium mo	schatum		T		UPL	1								
			110	=Total Cover				ric soil and			gy must			
1						be prese	ent, unies	s disturbed	or prop	iematic.				
2						Hydroph	•							
% Para Crauna	d in Herb Stratum	0	0/ Cover of	=Total Cover Biotic Crust	0	Vegetati Present			Vaa		No	X		
	III Helb Stratum		76 Cover of	Biolic Crust _		Present	. r		Yes_		No			
Remarks:														

Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A12) Field Park Surface (A12) Stratified Layers (A12) Padex Parksenians (F5) 1 cm Musk (A9) (LRR D) Depleted Dark Surface (F7) Field Park Surface (A12)	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. *Location: PI Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Redox (S5) 1 cm Histosol (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR C) Depleted Matrix (F2) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Depleted Redox Depressions (F8) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ : Muck (A9) (LRR C) Muck (A10) (LRR B) ced Vertic (F18) Parent Material (TF2) r (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present,
Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Histic Epipedon (A2) Stripped Matrix (S6) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Tom Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): ype: Pepth (inches): Mydric soil indicators observed. BROLOGY Wetland Hydrology Indicators: Primary Indicators (Minimum of one required; check all that apply) Surface Water (A1) Sufface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	for Problematic Hydric Soils ³ : Muck (A9) (LRR C) Muck (A10) (LRR B) ced Vertic (F18) Parent Material (TF2) (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present,
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Redox (S5) 1 cm Histosol (A2) Stripped Matrix (S6) 2 cm Histic Epipedon (A2) Loamy Mucky Mineral (F1) Redu Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red I Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) 3 Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleyed Matrix (S4) estrictive Layer (if present): ype: epth (inches): Hydric soil indicators observed. DROLOGY Petland Hydrology Indicators: rimary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	for Problematic Hydric Soils ³ : Muck (A9) (LRR C) Muck (A10) (LRR B) ced Vertic (F18) Parent Material (TF2) (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present,
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Redox (S5) 1 cm Histosol (A2) Stripped Matrix (S6) 2 cm Histic Epipedon (A2) Loamy Mucky Mineral (F1) Redu Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red I Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) 3 Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleyed Matrix (S4) estrictive Layer (if present): ype: epth (inches): Hydric soil indicators observed. DROLOGY Petland Hydrology Indicators: rimary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	for Problematic Hydric Soils ³ : Muck (A9) (LRR C) Muck (A10) (LRR B) ced Vertic (F18) Parent Material (TF2) (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present,
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Redox (S5) 1 cm Histosol (A2) Stripped Matrix (S6) 2 cm Histosol Histo Epipedon (A2) Stripped Matrix (S6) 2 cm Black Histic (A3) Loamy Mucky Mineral (F1) Redu Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red I Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) 3 Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleyed Matrix (S4) estrictive Layer (if present): ype: epth (inches): hydric soil indicators observed. DROLOGY Vetland Hydrology Indicators: rimary Indicators (Minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	for Problematic Hydric Soils ³ : Muck (A9) (LRR C) Muck (A10) (LRR B) ced Vertic (F18) Parent Material (TF2) (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present,
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Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) estrictive Layer (if present): ype: epth (inches): hydric soil indicators observed. DROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Driver Redox Depressions (F8) Vernal Pools (F9) Vernal Pools (F9) Hydric Soil Present: Sediment Deposits (B3) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4)	wetland hydrology must be present,
Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleyed Matrix (S4) estrictive Layer (if present): ype: epth (inches): hydric soil indicators observed. DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	wetland hydrology must be present,
Sandy Mucky Mineral (S1)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4) estrictive Layer (if present): ype: epth (inches): hydric soil indicators observed. PROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	
estrictive Layer (if present): ype: epth (inches): marks: hydric soil indicators observed. DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	unless disturbed or problematic
pepth (inches):	
PROLOGY Vetland Hydrology Indicators: Imary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Water Marks (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	
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Vetland Hydrology Indicators: rimary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	
rimary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Drift Deposits (B3) (Nonriverine) Sulface Water (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4)	Secondary Indicators (2 or more required)
High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4)	Water Marks (B1) (Riverine)
Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4)	Sediment Deposits (B2) (Riverine)
Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4)	Drift Deposits (B3) (Riverine)
Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4)	Drainage Patterns (B10)
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)
Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
	Saturation Visible on Aerial Imagery (C9
Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9) Other (Explain in Remarks)	FAC-Neutral Test (D5)
ield Observations:	
surface Water Present? Yes No _X Depth (inches):	
Vater Table Present? Yes No _X Depth (inches):	
	ydrology Present? YesNoX
ncludes capillary fringe) scribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available	
scribe Recorded Data (stream gauge, monitoring well, aerial priotos, previous inspections), il available	
marks:	··
wetland hydrology indicators observed.	:

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site:	Carmenere Estates	;			City/County:	Town of Lo	oomis, Placer C	ounty	Sam	04/26/23		
•	Building Engineerin		nagem					e: CA	_	pling Point:	DP9	
Investigator(s):	Daria Snider	<u> </u>			Section	Section, Township, Range: Section 8,Township 11 North, Range 7 Eas						
Landform (hillslop		Hillslop	е		_	-	e, convex, none				pe (%):	2-5
` .	Mediterranean Cali			Lat:	_			g:			, ,	: NAD83
Soil Map Unit Nar				 loam, 2 to 9%		30.0		es. Classification:		220400	Datum	. <u>IVADOS</u>
•						Vaa		No X		explain in Re		`
	rologic conditions on					_						
	, Soil							Il Circumstand				_No
Are Vegetation	, Soil	, or Hyd	Irology		naturally pro	blematic?	(If needed, e	explain any an	swers in	Remarks.)		
SUMMARY O	F FINDINGS - A	ttach si	te ma	p showing	sampling	point loca	ntions, trans	ects, impoi	rtant fe	atures, et	lc.	
Hydrophytic Vege	etation Present?	Yes	ļ	No X								
Hydric Soil Prese		Yes	X	No		mpled Area	a Ye	s	No	X		
Wetland Hydrolog		Yes		No	within a	Wetland?					-	
Remarks:	,,,											
,	vetter than normal. - Use scientific		of nl									
VEGETATION	- Use scientific	, maines	oi pi	aiits.								
				Absolute	Dominant	Indicator	Dominance T	est workshe	et:			
Tree Stratum	(Plot size:)	% Cover	Species?	Status	Number of Do	•				
1.							That Are OBL	, FACW, or FA	AC:	1		(A)
2.							Total Number	of Dominant				
3.							Species Acros	ss All Strata:		3		(B)
4.							Percent of Do	minant Specie				_` ′
				0	=Total Cover		That Are OBL			33%		(A/B)
					•							
Sapling/Shrub	Stratum (Plot size: _)				Prevalence Ir	ndex Worksh	eet:			
1.							Total %	Cover of:		Multiply b	эу:	
2.							OBL species	0	x1 =	0		_
3.							FACW specie	s 0	x2 =	0		_
4.							FAC species	35	x3 =	105		_
5.							FACU species	40	x4 =	160		_
				0	=Total Cover		UPL species	25	x5 =	125		_
Herh Stratum	(Plot size:1 met	er²)					Column Totals		(A)	390		(B)
1. Hordeum mi		<u></u> /		20	X	FACU		Index = B/A =	- ` '	3.9		_(=)
2. Cerastium g				20	$\frac{\chi}{\chi}$	UPL	1 TOVAICHOC	macx Birt		0.0		=
3. Veronica pe				20	<u> </u>	FAC	Hydrophytic '	Vogotation In	dicator			
4. Ranunculus				5		UPL		inance Test is		, .		
5. Medicago lu				10		FAC		alence Index				
	•			10		FACU				4		
6. Festuca arui								hological Ada				ng
7. Anthemis co				10		FACU		in Remarks o			•	,
8. Plantago lan				<u>5</u>		FAC	Prob	lematic Hydro	pnytic v	egetation (=xpiain	1)
9. Sisymbrium				<u>T</u>		UPL						
10 Senecio vulg	garıs			T	· 	UPL	¹ Indicators of				must	
11							be present, ur	iless disturbed	or prob	lematic.		
12							Hydrophytic					
					=Total Cover	r	Vegetation					
% Bare Ground	d in Herb Stratum	0		% Cover of	Biotic Crust	0	Present?		Yes	No	<u> </u>	(
Remarks:		-										

(inches)	Matrix			Redox Fea			=							
	Color (moist)	%	Color (mo	ist) %	Type ¹	Loc ²	Texture	Remarks						
0-2	10YR3/2	100					loamy sand							
2-6	7.5YR3/1	90	7.5YR3/4	10	<u>C</u>	PL	loamy sand							
							_							
							_							
							_							
							_							
							_							
Type: C=C	oncentration, D=Deplet	tion DM-Do	duced Matrix	CS=Covered o	r Coatod Sa	ad Crains	2l coation: DI =Do	ro Lining M-Matriy						
туре. С-С	oncentration, D-Deplet	lion, IXIVI–IXE	duced Matrix,	CS-Covered o	o Coaled Sai	iu Giallis.	Location. FL-FC	Te Lilling, M-Maurx.						
-	I Indicators: (Appli	icable to al			-			Problematic Hydric Soils ³ :						
	sol (A1)			andy Redox (•			ck (A9) (LRR C)						
	Epipedon (A2)			ripped Matrix				ck (A10) (LRR B)						
Black	Histic (A3)		Lo	amy Mucky N	Mineral (F1))		Vertic (F18)						
	gen Sulfide (A4)			amy Gleyed)		ent Material (TF2)						
Stratif	ied Layers (A5) (LRI	RC)	D	epleted Matrix	k (F3)		Other (Ex	rplain in Remarks)						
	Muck (A9) (LRR D)			edox Dark Su	, ,									
Deple	ted Below Dark Surf	ace (A11)		epleted Dark	-	7)								
	Dark Surface (A12)			edox Depress			³ Indi	cators of hydrophytic vegetation and						
	/ Mucky Mineral (S1)		V	ernal Pools (F	9)			etland hydrology must be present,						
Sandy	/ Gleyed Matrix (S4)						unless disturbed or problematic.							
Restrictive	Layer (if present):													
Гуре:														
Depth (inch	ies):					H	ydric Soil Preser	nt? Yes X No						
marks:														
'DROLOG	Y													
	Y ydrology Indicators	<u> </u>												
Wetland H			ed; check all	that apply)			Sec	condary Indicators (2 or more required)						
Netland H y Primary Ind	ydrology Indicators			that apply) alt Crust (B11)		Sec	condary Indicators (2 or more required) Water Marks (B1) (Riverine)						
Wetland H y Primary Ind Surface	ydrology Indicators licators (minimum of		S		•		Sec							
Wetland H y Primary Ind Surfac High \	ydrology Indicators licators (minimum of ce Water (A1)		Si	alt Crust (B11	12)	3)	Sec	Water Marks (B1) (Riverine)						
Wetland H Primary Ind Surfac High \ Satura	ydrology Indicators licators (minimum of ce Water (A1) Water Table (A2)	one require	Si Bi Ad	alt Crust (B11 otic Crust (B1	12) brates (B13	•	Sec	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)						
Vetland H Primary Ind Surfac High \ Satura Water	ydrology Indicators licators (minimum of ce Water (A1) Water Table (A2) ation (A3)	one require	Si Bi Ai H	alt Crust (B11 otic Crust (B1 quatic Inverte	12) brates (B13 de Odor (C	1)		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)						
Vetland H Primary Ind Surfac High \ Satura Water Sedim	ydrology Indicators licators (minimum of ce Water (A1) Water Table (A2) ation (A3)	one require verine) Nonriverine	S: B: A: H X O	alt Crust (B11 otic Crust (B1 quatic Inverte ydrogen Sulfic	brates (B13 de Odor (C spheres ald	1) ong Living		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)						
Vetland Hyprimary Ind Surface High \ Satura Water Sedim Drift C	ydrology Indicators licators (minimum of ce Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonriv nent Deposits (B2) (N	one require verine) Nonriverine	Si Si Si Si Si Si Si Si Si Si Si Si Si S	alt Crust (B11 otic Crust (B1 quatic Inverte ydrogen Sulfic xidized Rhizo	brates (B13 de Odor (C spheres alc educed Iron	1) ong Living (C4)	Roots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)						
Wetland Hy Primary Ind Surfac High \ Satura Water Sedim Drift E	ydrology Indicators licators (minimum of ce Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonriv nent Deposits (B2) (Nonriv	one require verine) Nonriverine verine)	S:	alt Crust (B11 otic Crust (B1 quatic Inverte ydrogen Sulfic xidized Rhizo resence of Re	brates (B13 de Odor (C spheres alc educed Iron duction in T	1) ong Living (C4)	Roots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)						
Vetland Hyprimary Ind Surface High V Satura Water Sedim Drift E Surface Inunda	ydrology Indicators licators (minimum of ce Water (A1) Nater Table (A2) ation (A3) Marks (B1) (Nonriv nent Deposits (B2) (Nonriv ce Soil Cracks (B6)	one require verine) Nonriverine verine)		alt Crust (B11 otic Crust (B1 quatic Inverte ydrogen Sulfic xidized Rhizo resence of Recect Iron Re	brates (B13) de Odor (Cispheres alceduced Iron duction in Tace (C7)	1) ong Living (C4) Tilled Soil	Roots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)						
Vetland Hyprimary Ind Surface High N Satura Water Sedim Drift E Surface Inunda	ydrology Indicators licators (minimum of ce Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonriv nent Deposits (B2) (No Deposits (B3) (Nonriv ce Soil Cracks (B6) ation Visible on Aeria	one require verine) Nonriverine verine)		alt Crust (B11 otic Crust (B1 quatic Inverte ydrogen Sulfic xidized Rhizo resence of Reecent Iron Reinin Muck Surf	brates (B13) de Odor (Cispheres alceduced Iron duction in Tace (C7)	1) ong Living (C4) Tilled Soil	Roots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)						
Wetland Hy Primary Ind Surfac High \ Satura Water Sedim Drift E Surfac Inunda Water	ydrology Indicators licators (minimum of ce Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonriv nent Deposits (B2) (No Deposits (B3) (Nonriv ce Soil Cracks (B6) ation Visible on Aeria	one require verine) Nonriverine verine) al Imagery (Si	alt Crust (B11 otic Crust (B1 quatic Inverte ydrogen Sulfic xidized Rhizo resence of Reecent Iron Renin Muck Surfther (Explain	brates (B13) de Odor (C'spheres alceduced Iron duction in Trace (C7) in Remarks	1) ong Living (C4) Tilled Soil	Roots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)						
Wetland Hyprimary Ind Surface High \ Satura Water Sedim Drift C Surface Inund: Water	ydrology Indicators licators (minimum of ce Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonriv nent Deposits (B2) (Nonriv ce Soil Cracks (B6) ation Visible on Aeria -Stained Leaves (B5) ervations:	one require verine) Nonriverine verine) al Imagery (Si	alt Crust (B11 otic Crust (B1 quatic Inverte ydrogen Sulfic xidized Rhizo resence of Recent Iron Renin Muck Surfther (Explain	brates (B13) de Odor (C'spheres alceduced Iron duction in Trace (C7) in Remarks	1) ong Living (C4) Tilled Soil	Roots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)						
Vetland Hyprimary Ind Surface High V Satura Water Sedim Drift D Surface Inunda Water Field Obse Surface Water Table	ydrology Indicators licators (minimum of ce Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonriv nent Deposits (B2) (Nonriv ce Soil Cracks (B6) ation Visible on Aeria -Stained Leaves (B5) ervations: ater Present?	verine) Nonriverine verine) al Imagery (Si	alt Crust (B11 otic Crust (B1 quatic Inverte ydrogen Sulfic xidized Rhizo resence of Recent Iron Renin Muck Surfther (Explain Depth (inches Depth (inches	brates (B13) de Odor (C'spheres alceduced Iron duction in Trace (C7) in Remarks s):	1) ong Living (C4) Tilled Soil	g Roots (C3) s (C6)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)						
Primary Ind Surface High N Satura Water Sedim Drift D Surface Water Surface Water Tabl Saturation I	ydrology Indicators licators (minimum of ce Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonriv nent Deposits (B2) (Nonriv ce Soil Cracks (B6) ation Visible on Aeria -Stained Leaves (B5) ervations: ater Present?	verine) Nonriverine verine) al Imagery (Si	alt Crust (B11 otic Crust (B1 quatic Inverte ydrogen Sulfic xidized Rhizo resence of Recent Iron Renin Muck Surfther (Explain	brates (B13) de Odor (C'spheres alceduced Iron duction in Trace (C7) in Remarks s):	1) ong Living (C4) Tilled Soil	g Roots (C3) s (C6)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)						
Primary Ind Surface High N Satura Water Sedim Drift E Surface Water Field Obse Surface Water Water Tabl Saturation I (includes ca	ydrology Indicators licators (minimum of ce Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonriv ment Deposits (B2) (Nonriv ce Soil Cracks (B6) ation Visible on Aeria -Stained Leaves (B3) rvations: ater Present? Present?	verine) Nonriverine verine) al Imagery (Si	alt Crust (B11 otic Crust (B1 quatic Inverte ydrogen Sulfic xidized Rhizo resence of Recent Iron Renin Muck Surf ther (Explain Depth (inched Depth (inched popth (inched p	brates (B13) de Odor (C'spheres alceduced Iron duction in Tiace (C7) in Remarks s): s): s):	ng Living (C4) Filled Soil	s (C6) Wetland Hydro	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)						
Wetland Hyprimary Ind Surface High \ Satura Water Sedim Drift D Surface Inunda Water Field Obse Surface Water Table Saturation I (includes calescribe Receivers)	ydrology Indicators licators (minimum of ce Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonriv ment Deposits (B2) (Nonriv ce Soil Cracks (B6) ation Visible on Aeria -Stained Leaves (B3) revations: ater Present? Present? Ye apillary fringe)	verine) Nonriverine verine) al Imagery (Si	alt Crust (B11 otic Crust (B1 quatic Inverte ydrogen Sulfic xidized Rhizo resence of Recent Iron Renin Muck Surf ther (Explain Depth (inched Depth (inched popth (inched p	brates (B13) de Odor (C'spheres alceduced Iron duction in Tiace (C7) in Remarks s): s): s):	ng Living (C4) Filled Soil	s (C6) Wetland Hydro	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)						
Wetland Head Primary Ind Surface High Vater Sedim Drift C Surface Inunda Water Field Obse Surface Water Table Saturation I	ydrology Indicators licators (minimum of ce Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonriv ment Deposits (B2) (Nonriv ce Soil Cracks (B6) ation Visible on Aeria -Stained Leaves (B3) revations: ater Present? Present? Ye apillary fringe)	verine) Nonriverine verine) al Imagery (Si	alt Crust (B11 otic Crust (B1 quatic Inverte ydrogen Sulfic xidized Rhizo resence of Recent Iron Renin Muck Surf ther (Explain Depth (inched Depth (inched popth (inched p	brates (B13) de Odor (C'spheres alceduced Iron duction in Tiace (C7) in Remarks s): s): s):	ng Living (C4) Filled Soil	s (C6) Wetland Hydro	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)						
Wetland Hyprimary Ind Surface High \ Satura Water Sedim Drift D Surface Inunda Water Field Obse Surface Water Tabl Saturation I (includes calescribe Received)	ydrology Indicators licators (minimum of ce Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonriv ment Deposits (B2) (Nonriv ce Soil Cracks (B6) ation Visible on Aeria -Stained Leaves (B3) revations: ater Present? Present? Ye apillary fringe)	verine) Nonriverine verine) al Imagery (Si	alt Crust (B11 otic Crust (B1 quatic Inverte ydrogen Sulfic xidized Rhizo resence of Recent Iron Renin Muck Surf ther (Explain Depth (inched Depth (inched popth (inched p	brates (B13) de Odor (C'spheres alceduced Iron duction in Tiace (C7) in Remarks s): s): s):	ng Living (C4) Filled Soil	s (C6) Wetland Hydro	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)						
Wetland Herrimary Ind Surface High Vector Satura Water Sedim Drift D Surface Inunda Water Field Obse Surface Water Table Saturation I (includes calescribe Receivers)	ydrology Indicators licators (minimum of ce Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonriv ment Deposits (B2) (Nonriv ce Soil Cracks (B6) ation Visible on Aeria -Stained Leaves (B3) revations: ater Present? Present? Ye apillary fringe)	verine) Nonriverine verine) al Imagery (Si	alt Crust (B11 otic Crust (B1 quatic Inverte ydrogen Sulfic xidized Rhizo resence of Recent Iron Renin Muck Surf ther (Explain Depth (inched Depth (inched popth (inched p	brates (B13) de Odor (C'spheres alceduced Iron duction in Tiace (C7) in Remarks s): s): s):	ng Living (C4) Filled Soil	s (C6) Wetland Hydro	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)						

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site:	Carmenere Estates			City/County:	Town of Lo	omis, Pla	cer Coun	nty	Samplii	04/26/23		
Applicant/Owner:	Building Engineering	g and Manag	ement, Inc.			State: CA			Samplii	t: DP10		
Investigator(s):	Daria Snider			Section	n, Township	, Range:	Section	8,Townshi	p 11 North	, Range	7 East	
Landform (hillslop	e, terrace, etc.):	Hillslope		Local re	lief (concav	e, convex	(, none): (Concave		SI	ope (%):	2-5
Subregion (LRR):	Mediterranean Calif	ornia (LRR C) Lat:	_	38.8	1237272	Long:		-121.2238	3959	Datum:	NAD83
Soil Map Unit Nar	ne: 106 - Andreg	gg coarse sar	ndy loam, 2 to 9%	slopes			_	sification:	None			
Are climatic / hydi	ologic conditions on	the site typica	al for this time of	vear?	Yes		No	Х	(If no, exp	olain in F	Remarks.)
Are Vegetation	, Soil	-		significantly	_	Are "I	– Normal Ci	ircumstanc	es" presen			
Are Vegetation	, Soil			naturally pro					swers in R			
SUMMARY O	FINDINGS - At	_				ations, t	ransect	ts, impor	tant feat	ures,	etc.	
Hydrophytic Vege	tation Present?	Yes X	No									
Hydric Soil Prese		Yes X	No		mpled Area	3	Yes	X	No			
Wetland Hydrolog		Yes X	No	within a	Wetland?		-				_	
Remarks:		-	_									
	depression. Rain yea											
VEGETATION	- Use scientific	names or	piants.									
			Absolute	Dominant	Indicator	Domina	nce Test	workshee	et:			
Tree Stratum	(Plot size:)	% Cover	Species?	Status			ant Specie				
1						That Are	OBL, FA	ACW, or FA	AC:	1		(A)
2.						Total Nu	ımber of [Dominant				
3.						Species	Across A	II Strata:		1		(B)
4.						Percent	of Domin	ant Specie	es		•	,
			0	=Total Cover				ACW, or FA		100°	%	(A/B)
Sapling/Shrub	Stratum (Plot size: _)				Prevale	nce Inde	x Workshe	eet:			
1						To	tal % Cov	er of:		Multiply	y by:	=
2						OBL spe	ecies _	10	x1 =	10		-
3						FACW s	_	40	x2 =	80		-
4						FAC spe	_	0	_x3 =	0		-
5						FACU s	_	0	_x4 =	0		-
		0	0	=Total Cover	•	UPL spe	_	0	_x5 =	0		-
	(Plot size: _1 meter	<u>-</u>)			= 4 0 147		Totals: _		(A)	90		(B)
1. Glyceria ded			40	X	FACW	Preva	lence Ind	lex = B/A =		1.8		=
2. <u>Mentha pule</u>	gium		10		OBL							
3							-	etation In				
			_			<u> </u>		nce Test is				
			_			X		nce Index i				
_ `									ıptations¹ (I			ıg
									r on a sepa			
8							Problem	natic Hydro	phytic Veg	etation '	(Explain)	1
	ratum (Plot size:	·		=Total Cover					l wetland h		y must	
2.			<u> </u>			•			<u> </u>			
				=Total Cover		Hydropl Vegetat	-					
% Bare Ground	d in Herb Stratum	50		Biotic Crust		Present			Yes >	K i	No	
Remarks:			<u> </u>	-					·			
i												

Profile Des	cription: (Describe t	o the dept	h needed to do	cument tl	ne indica	tor or c	onfirm the absence	of indicators.)
Depth	Matrix		Re	dox Featu	ıres			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2	10YR 2.5/1	100	_				sand	
2-8	7.5YR 3/1	95 7	7.5YR 4/6	5	C	PL	sand	
			_					
			_					
			_			<u> </u>		
¹ Type: C=Co	ncentration, D=Depletion	, RM=Redu	ced Matrix, CS=C	overed or C	oated Sar	nd Grains	Location: PL=Pore I	Lining, M=Matrix.
	1. P ((A P				4 1		1. P	
=	Indicators: (Applica	DIE TO AII			-			oblematic Hydric Soils ³ :
Histos				Redox (S5	-			A9) (LRR C)
	Epipedon (A2)			d Matrix (S	-			A10) (LRR B)
	Histic (A3)			Mucky Mir			Reduced Ve	
	gen Sulfide (A4)	• \		Gleyed Ma				Material (TF2)
	ed Layers (A5) (LRR (•)		d Matrix (Other (Expla	ain in Remarks)
	Muck (A9) (LRR D)	- (0.44)		Dark Surfa	, ,	• \		
	ed Below Dark Surfac	e (A11)		d Dark Su	-)		
	Dark Surface (A12)			Depressio				ors of hydrophytic vegetation and
	Mucky Mineral (S1)		vernai	Pools (F9))			nd hydrology must be present,
	Gleyed Matrix (S4)						unie	ess disturbed or problematic.
	Layer (if present):							
Type:			<u> </u>					
Depth (inch	es):					1	lydric Soil Present?	Yes <u>X</u> No
Remarks:								
HYDROLOGY	(
	/drology Indicators:							
_	icators (minimum of or	e required	: check all that a	(vlaa			Secon	dary Indicators (2 or more required)
	e Water (A1)			ust (B11)				Vater Marks (B1) (Riverine)
	Vater Table (A2)			rust (B12)	١			Sediment Deposits (B2) (Riverine)
	ition (A3)		X Aquatic			3		Orift Deposits (B3) (Riverine)
	Marks (B1) (Nonriver	ine)		en Sulfide	•	•		Orainage Patterns (B10)
	ent Deposits (B2) (No	•	X Oxidize		•	-		Ory-Season Water Table (C2)
	eposits (B3) (Nonrive	•		ce of Redu		-	- · · · 	Crayfish Burrows (C8)
·	e Soil Cracks (B6)			Iron Redu				Saturation Visible on Aerial Imagery (C9)
	ation Visible on Aerial I	madery (R		ick Surfac		ilica oo	· · ·	Shallow Aquitard (D3)
	-Stained Leaves (B9)	magery (D	· —	Explain in		`		AC-Neutral Test (D5)
Field Obse					r terriar ko)	<u> </u>	AO-Neutral Test (D3)
			lo V Donti	(inches)				
Water Table			lo X Depth					
Saturation F			lo X Deptl lo X Deptl	i (inches): i (inches):			Wetland Hydrolog	gy Present? Yes X No
	pillary fringe)		ю <u>х</u> Бери	i (iiiciies).			Wetiana riyarolog	gyrresent: res_X_No
	orded Data (stream ga	uge, moni	oring well, aerial	photos, p	revious in	spectio	ns), if available:	
Remarks:								

Project/Site:	Carmenere Estates	;		City/County:	Town of Lo	omis, Plac	er Cour	nty	Sam	pling Da	te:	04/26/23
Applicant/Owner:	Building Engineerin	ig and Manageme	ent, Inc.				State:	CA	Sam	pling Po	int: <u>DP11</u>	
Investigator(s):	Daria Snider			Section	n, Township	o, Range:	Section	8,Townshi	p 11 No	rth, Ranç	ge 7 East	
Landform (hillslop	oe, terrace, etc.):	Hillslope		Local re	elief (concav	/e, convex,	none):	None			Slope (%):	2-5
Subregion (LRR):	Mediterranean Cali	fornia (LRR C)	Lat:		38.	.8123526	Long:		-121.22	239211	Datum	: NAD83
Soil Map Unit Nar		gg coarse sandy				N	WI Clas	ssification:	None			
Are climatic / hydi	rologic conditions on	the site typical fo	or this time of	year?	Yes		No	Χ	(If no, e	explain in	n Remarks	.)
Are Vegetation	, Soil	, or Hydrology		significantly	disturbed?	Are "No	ormal C	ircumstand	es" pres	ent?	Yes X	No
Are Vegetation	, Soil	, or Hydrology		naturally pro	blematic?	(If need	ed, exp	lain any an	swers ir	Remark	(s.)	
SUMMARY OF	FINDINGS - At	ttach site map	showing	sampling	point loca	ations, tra	ansect	ts, impoi	tant fe	atures	, etc.	
Hydrophytic Vege			No	Is the Sa	ampled Are	a						
Hydric Soil Prese			No		Wetland?		Yes	X	No_			
Wetland Hydrolog	y Present?	Yes X	No									
Remarks:												
	Rain year much wett - Use scientific		ants.									
				D		Di	T	4 la	.4.			
			Absolute % Cover	Dominant Species?	Indicator Status			t workshe				
	(Plot size:)		————				nant Specie ACW, or F <i>l</i>			_	
1								,	_		2	_(A)
2			-			Total Num Species A		Dominant			_	(5)
3						Opecies /	101033 F	All Ottata.	_		2	_(B)
4								nant Specie		40	00/	(A /D)
			0	=Total Cove	ſ	That Are	OBL, FA	ACW, or FA	\C:	10	0%	_(A/B)
Sanling/Shrub	Stratum (Plot size:	`				Provalon	co Indo	x Worksh	not:			
3apiirig/Siliub	Stratum (Plot size: _						il % Cov		eet.	Multin	alv by:	
1 2.			-			OBL spec		0	x1 =		oly by: 0	-
3.						FACW sp	-	45	x2 =		0	-
٥. <u></u>						FAC spec	-	30	x3 =		00	-
5.			-		-	FACU spe	-	20	x4 =		30	_
o			0	=Total Cove		UPL spec	-	10	x5 =		50	_
Herb Stratum	(Plot size: _1 mete	er²)				Column T	-		(A)		10	(B)
1. Glyceria dec			30	Х	FACW		-	dex = B/A =				_ ` '
2. Poa annua			30	X	FAC				-			_
3. Ranunculus	muricatus		15		FACW	Hydroph	ytic Veg	getation In	dicators	s:		
4. Anthemis co	tula		15		FACU	X	Domina	nce Test is	>50%			
5. Festuca my u	iros		5		FACU	X	Prevale	nce Index	s ≤3.0 ¹			
6. Cerastium gi	lomeratum		5		UPL		Morpho	logical Ada	ptations	1 (Provid	le supporti	na
7. Erodium mo	schatum		5		UPL			Remarks o				5
8							Problen	natic Hydro	phytic V	egetation	n ¹ (Explain)
			105	=Total Cove	r							
-	tratum (Plot size:)						lric soil and			gy must	
1						be presen	nt, unles	s disturbed	d or prob	lematic.		
2						Hydrophy	ytic					
a, 5		_		=Total Cove		Vegetatio	n			v		
	d in Herb Stratum	0	% Cover of	Biotic Crust	0	Present?	1		Yes _	<u> </u>	No	
Remarks:												

Profile De	scription: (Describe	to the depth n	eeded to do	cument th	ne indicat	tor or co	onfirm the ab	sence of ind	icators.)	
Depth	Matrix		Re	edox Featu	ıres		_			
(inches)	Color (moist)	%Cd	olor (moist)	%	Type ¹	Loc ²	Textur	re	R	emarks
0-5	7.5YR 3/2	90 7.5	'R 3/3	10		PL	sandy loai	m		
5-10	7.5YR 4/2	95 7.5	'R 3/4	5		PL	sand			
							_			
¹ Type: C=C	Concentration, D=Depletion	n, RM=Reduce	Matrix, CS=0	Covered or	Coated Sa	and Grain	s. ² Location:	PL=Pore Linin	g, M=Matrix.	
Hydric So	il Indicators: (Applic	able to all I Di	Pe unlose o	thorwise r	noted)		Indicators	e for Problem	natic Hydric S	Poils ³ :
-	il Indicators: (Applications)	able to all LKr			-					olis .
	` '			Redox (S5	•			n Muck (A9) (I Nuck (A10)		
	Epipedon (A2)			ed Matrix (S				n Muck (A10)		
	(Histic (A3)			Mucky Mir				uced Vertic (F	•	
	ogen Sulfide (A4)			Gleyed Ma				Parent Mater		
	fied Layers (A5) (LRR	C)		ed Matrix (I	•		Othe	er (Explain in l	Remarks)	
	Muck (A9) (LRR D)			Dark Surfa						
	eted Below Dark Surfac	e (A11)		ed Dark Su	•	')				
	Dark Surface (A12)			Depressio				3Indicators of	hydrophytic v	egetation and
Sand	y Mucky Mineral (S1)		Vernal	Pools (F9))			-	drology must l	•
Sand	y Gleyed Matrix (S4)							unless di	sturbed or pro	blematic.
Restrictive	e Layer (if present):									
Type:										
Depth (incl	hes):					H	lydric Soil Pr	esent?	Yes	X No
Remarks:										
WBB01.00										
HYDROLOG										
	lydrology Indicators:								" , (0	
	dicators (minimum of o	ne required; ch								r more required)
	ice Water (A1)			ust (B11)					Marks (B1) (R	•
High	Water Table (A2)		Biotic C	Crust (B12))			Sedim	ent Deposits (B2) (Riverine)
Satur	ration (A3)		Aquatio	c Invertebra	ates (B13)		Drift De	eposits (B3) (F	Riverine)
Wate	er Marks (B1) (Nonrive	rine)	Hydrog	jen Sulfide	Odor (C1	1)		Draina	ge Patterns (E	310)
Sedir	ment Deposits (B2) (No	onriverine)	X Oxidize	ed Rhizosp	heres alo	ng Livin	g Roots (C3)	Dry-Se	ason Water T	able (C2)
Drift [Deposits (B3) (Nonrive	rine)	Presen	ice of Redu	uced Iron	(C4)		Crayfis	h Burrows (C	3)
Surfa	ice Soil Cracks (B6)		Recent	l Iron Redu	ction in T	illed Soi	ils (C6)	Satura	tion Visible on	Aerial Imagery (C9)
Inund	lation Visible on Aerial	Imagery (B7)	Thin M	uck Surfac	e (C7)			Shallov	w Aquitard (D3	3)
Wate	er-Stained Leaves (B9)		Other (Explain in	Remarks)		FAC-N	eutral Test (D	5)
Field Obse	ervations:					,			•	,
	ater Present? Yes	. No	X Dept	th (inches):	:					
	le Present? Yes			th (inches):						
Saturation				th (inches):			Wetland H	lydrology Pre	esent? Y	es X No
	apillary fringe)			(., 0.09,		<u></u>
•	corded Data (stream ga	auge, monitorir	ng well, aeria	l photos, p	revious in	spection	ns), if available	e:		
Remarks:										

Project/Site:	Carmenere Estates	8		City/County:	Town of Lo	omis, Plac	er Cour	nty	Sam	pling Da	te:	04/26/23
Applicant/Owner:	Building Engineering	ng and Managem	ent, Inc.				State:	CA	Sam	pling Po	int: DP12	2
Investigator(s):	Daria Snider			Section	n, Township	, Range:	Section	8,Townshi	p 11 No	rth, Ran	ge 7 East	
Landform (hillslop	e, terrace, etc.):	·		Local re	lief (concav	e, convex,	none):			:	Slope (%):	
Subregion (LRR):	Mediterranean Cali	ifornia (LRR C)	Lat:		38.8	1222429	Long:		-121.2	235591	Datum	: NAD83
Soil Map Unit Nan		egg coarse sandy				N		ssification:				
Are climatic / hydr	ologic conditions on	the site typical f	or this time of	year?	Yes		No	Х	(If no, e	explain ir	n Remarks	.)
Are Vegetation	, Soil	, or Hydrology		significantly	disturbed?	Are "N	ormal C	ircumstanc	es" pres	sent?	Yes X	No
Are Vegetation	, Soil	, or Hydrology		naturally pro	blematic?	(If need	led, expl	lain any an	swers ir	n Remarl	(s.)	
SUMMARY OF	FINDINGS - A	ttach site ma _l	showing	sampling	point loca	ations, tr	ansect	ts, impor	tant fe	atures	, etc.	
Hydrophytic Veget	tation Present?	Yes X	No									
Hydric Soil Preser	nt?	Yes X	No		mpled Area Wetland?	a	Yes	X	No			
Wetland Hydrolog	y Present?	Yes X	No	Within	wedana.		_		_			
Remarks:												
	wetland. Rain year n											
ı			Absolute % Cover	Dominant Species?	Indicator Status			workshee				
	(Plot size:)						nant Specie ACW, or F <i>e</i>				
1								,	··· _		1	_(A)
2								Dominant All Strata:			_	
3			-			Opecies /	101033 F	ai Otiata.	_		1	_(B)
4								ant Specie			20/	(A (D)
			0	=Total Cover	•	I nat Are	OBL, FA	ACW, or FA	AC:	10	0%	_(A/B)
Conling/Chrub 9	Stratum (Plot size:	,				Drovolon	oo Indo	x Workshe				
3apiirig/Siliub (Stratum (Flot Size.						al % Cov			Multi	ply by:	
2.						OBL spe		90	x1 =		90 90	_
3.			-			FACW sp	-		x2 =		0	_
4.						FAC spec	-	5	x3 =		15	_
5.						FACU sp	-		x4 =		20	_
			0	=Total Cover		UPL spec	-	0	x5 =		0	_
Herb Stratum	(Plot size: _1 mete	er ²)				Column 7	-	100	(A)	1	25	(B)
1. Nasturtium o	-	—— <i>'</i>	90	Χ	OBL	Preval	ence Ind	lex = B/A =				_ ` ′
2. Anthemis cot	tula		5		FACU							
3. Poa annua			5		FAC	Hydroph	ytic Veg	getation In	dicator	s:		
4. Ranunculus	muricatus		Т		FACW	X	Domina	nce Test is	>50%			
5. Rumex crisp	us		T		FAC	X	Prevale	nce Index i	s ≤3.0 ¹			
6							Morpho	logical Ada	ptations	¹ (Provid	de supporti	ing
7								Remarks o		•		
8							Problem	natic Hydro	phytic V	'egetatio	n¹ (Explain	1)
	ratum (Plot size:		100	=Total Cover	-			ric soil and				
2.						112	. 4! -					
				=Total Cover		Hydroph Vegetation						
% Bare Ground	l in Herb Stratum	0	% Cover of		0	Present?			Yes	X	No	
Remarks:				-	-	l			_			

Profile De: Depth	Matrix			Re	dox Featu	ıres						
(inches)	Color (moist)	%	Color	(moist)	%	Type ¹	Loc ²	- Texture	e		Remark	ks
0-3	10YR 3/1	100		(.,,,,,		sandy loar				
3-6	7.5YR 4/1	95	7.5YR 3	3/4	5	С	M	sand		-		
										-		
							-			•		
			-				-			•		
							-					
							-					
Type: C=C	oncentration, D=Deplet	ion, RM=R	educed Ma	atrix, CS=C	overed or	Coated Sa	and Grains	s. ² Location:	PL=Pore	Lining, M=Mat	rix.	
landaia Oai	1 la dia eta ara (A a ali					41\		l	. f D		3	
-	I Indicators: (Applic	cable to a	II LKKS,		n erwise r Redox (S5	-				oblematic Hy 49) (LRR C)	aric Solis	:
	sol (A1)			_		•						
	Epipedon (A2)			_	Matrix (S					410) (LRR B)		
	Histic (A3)			_	-	neral (F1)				rtic (F18)		
	ogen Sulfide (A4)			_	-	atrix (F2)				Material (TF2)		
	fied Layers (A5) (LRF	(C)	_X	- '	d Matrix (•		Othe	er (Expla	in in Remarks	S)	
	Muck (A9) (LRR D)			_	Oark Surfa							
	ted Below Dark Surfa	ice (A11)		_		urface (F7	')					
	Dark Surface (A12)			_	Depressio			;	³ Indicato	ors of hydroph	ytic vegeta	tion and
	y Mucky Mineral (S1)			_ Vernal F	Pools (F9))				nd hydrology r		
Sand	y Gleyed Matrix (S4)								unle	ss disturbed o	or problema	atic.
Restrictive	Layer (if present):											
	Layer (if present):											
Гуре:							u,	udrio Soil Br	000nt?	,	vos Y	No
Restrictive Type: Depth (inchemarks:							H	ydric Soil Pro	esent?	,	Yes X	No
Гуре: Depth (inch							H	ydric Soil Pro	esent?	,	Yes X	No
Гуре: Depth (inch	nes):		<u></u>				н	ydric Soil Pro	esent?	,	Yes X	No
Type:	nes):						H	ydric Soil Pro	esent?	,	Yes X	No
Type:	nes):		ed; check	< all that ap	oply)		H	ydric Soil Pro		dary Indicators		
Type:	Y ydrology Indicators		ed; check		oply) st (B11)		H	ydric Soil Pro	Second		s (2 or more	e required)
DROLOG Vetland H Primary Inc X Surfa	Y ydrology Indicators dicators (minimum of		ed; check	Salt Cru)	H	ydric Soil Pro	Second W	dary Indicators	s (2 or more 31) (Riveri r	e required)
DROLOG Vetland H Primary Inc X Surfa X High	Y ydrology Indicators dicators (minimum of ce Water (A1) Water Table (A2)		ed; check	Salt Cru Biotic C	st (B11) rust (B12) ates (B13		ydric Soil Pro	Second W	dary Indicators ater Marks (E	s (2 or more 31) (Riverir osits (B2) (F	e required) ne) Riverine)
DROLOG Vetland H Primary Inc X Surfa X High X Satur	Y ydrology Indicators dicators (minimum of ce Water (A1) Water Table (A2)	one requir	red; check	Salt Cru Biotic Ci Aquatic	st (B11) rust (B12 Invertebr	•)	ydric Soil Pro	Second W Si	dary Indicators Vater Marks (E ediment Depc	s (2 or more 31) (Riverir osits (B2) (F B3) (Riveri	e required) ne) Riverine)
DROLOG Vetland H Primary Inc X Surfa X High X Satur Wate	y ydrology Indicators dicators (minimum of ce Water (A1) Water Table (A2) ation (A3)	one requir erine)	_ 	Salt Cru Biotic Ci Aquatic Hydroge	st (B11) rust (B12 Invertebr en Sulfide	ates (B13 Odor (C)	ydric Soil Pro	Second W Si	dary Indicators /ater Marks (E ediment Depo rift Deposits (I	s (2 or more 31) (Riverir osits (B2) (F B3) (Riveri rns (B10)	e required) ne) Riverine) ne)
DROLOG Vetland H rimary Inc X Surfa X High X Satur Wate Sedin	y ydrology Indicators dicators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrive	one requir erine) Ionriverin	_ 	Salt Cru Biotic Ci Aquatic Hydroge Oxidized	st (B11) rust (B12 Invertebren en Sulfide d Rhizosp	ates (B13 Odor (C) I) ing Living		Second W Si D D D D	dary Indicators /ater Marks (E ediment Depo rift Deposits (I rainage Patte	s (2 or more 31) (Riverir osits (B2) (F B3) (Riveri rns (B10) ater Table (e required) ne) Riverine) ne)
DROLOG Vetland H Primary Inc X Surfa X High \(^{\text{X}}\) X Satur. Wate Sedin Drift I	Y ydrology Indicators dicators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrive	one requir erine) Ionriverin	_ 	Salt Cru Biotic Ci Aquatic Hydroge Oxidized	st (B11) rust (B12) Invertebra en Sulfide d Rhizospe ee of Redi	ates (B13 Odor (C ² oheres alc) I) ing Living (C4)	g Roots (C3)	Second W S D D D D C C	dary Indicators /ater Marks (E ediment Depo rift Deposits (I rainage Patte ry-Season Wa rayfish Burrov	s (2 or more 31) (Riverir osits (B2) (F B3) (Riveri rns (B10) ater Table (e required) ne) Riverine) ne)
Depth (inch marks: DROLOG Vetland H Primary Inc X Surfa X High \(^{\text{X}}\) X Satur. Wate Sedin Drift \(^{\text{C}}\) Surfa	Y ydrology Indicators dicators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrive ment Deposits (B2) (No	one requir erine) Ionriverin verine)	e)	Salt Cru Biotic Ci Aquatic Hydroge Oxidized Presend Recent	st (B11) rust (B12) Invertebra en Sulfide d Rhizospe ee of Redi	ates (B13 Odor (C´ oheres ald uced Iron uction in T) I) ing Living (C4)	g Roots (C3)	Second W S D D D D C S	dary Indicators /ater Marks (E ediment Depo rift Deposits (I rainage Patte ry-Season Wa rayfish Burrov	s (2 or more 31) (Riverir osits (B2) (F B3) (Riveri rns (B10) ater Table (vs (C8) ole on Aeria	e required) ne) Riverine) ne)
Depth (inch marks: DROLOG Vetland H Primary Inc X Surfa X High X Satur Wate Sedin Drift I Surfa Inund	y ydrology Indicators dicators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrive ment Deposits (B2) (No Deposits (B3) (Nonrive ce Soil Cracks (B6)	one requirerine) Ionriverine) Is Imagery	e)	Salt Cru Biotic Ci Aquatic Hydroge Oxidized Presence Recent I Thin Mu	st (B11) rust (B12) Invertebre en Sulfide d Rhizospe e of Redu fron Redu ck Surfac	ates (B13 Odor (C´ oheres ald uced Iron uction in T	r) I) ong Living (C4) illed Soil	g Roots (C3)	Second W Si D D D C C Si Si Si Si Si Si	dary Indicators /ater Marks (E ediment Depo rift Deposits (I rainage Patte ry-Season Wa rayfish Burrov aturation Visik	s (2 or more 31) (Riverir osits (B2) (F B3) (Riveri rns (B10) ater Table (vs (C8) ole on Aeria rd (D3)	e required) ne) Riverine) ne)
DROLOG Wetland H Primary Inc X Surfa X High X Satur Uvate Sedin Drift I Surfa Inund Wate	yydrology Indicators dicators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonriv ment Deposits (B2) (Nonriv ce Soil Cracks (B6) ation Visible on Aeria r-Stained Leaves (B9)	one requirerine) Ionriverine) Is Imagery	e)	Salt Cru Biotic Ci Aquatic Hydroge Oxidized Presence Recent I Thin Mu	st (B11) rust (B12) Invertebre en Sulfide d Rhizospe e of Redu fron Redu ck Surfac	ates (B13 c Odor (C' oheres alo uced Iron uction in T ce (C7)	r) I) ong Living (C4) illed Soil	g Roots (C3)	Second W Si D D D C C Si Si Si Si Si Si	dary Indicators /ater Marks (E ediment Depo rift Deposits (I rainage Patte ry-Season Wa rayfish Burrov aturation Visit hallow Aquital	s (2 or more 31) (Riverir osits (B2) (F B3) (Riveri rns (B10) ater Table (vs (C8) ole on Aeria rd (D3)	e required) ne) Riverine) ne)
DROLOG Wetland H Primary Inc X Surfa X High X Satur Usate Sedin Drift I Surfa Inund Wate	yydrology Indicators dicators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonriv ment Deposits (B2) (Nonriv ce Soil Cracks (B6) ation Visible on Aeria r-Stained Leaves (B9	erine) lonriverine verine) ul Imagery	(B7)	Salt Cru Biotic Ci Aquatic Hydroge Oxidized Presend Recent I Thin Mu Other (E	st (B11) rust (B12 Invertebre en Sulfide d Rhizosp ee of Redu iron Redu ck Surfac explain in	ates (B13 c Odor (C' oheres ald uced Iron uction in T ce (C7) Remarks) I) ing Living (C4) Tilled Soil	g Roots (C3)	Second W Si D D D C C Si Si Si Si Si Si	dary Indicators /ater Marks (E ediment Depo rift Deposits (I rainage Patte ry-Season Wa rayfish Burrov aturation Visit hallow Aquital	s (2 or more 31) (Riverir osits (B2) (F B3) (Riveri rns (B10) ater Table (vs (C8) ole on Aeria rd (D3)	e required) ne) Riverine) ne)
DROLOG Wetland H Primary Inc X Surfa X High X Satur. Unift E Sedin Inund Wate Gurface Wi	y ydrology Indicators dicators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonriv ment Deposits (B2) (N Deposits (B3) (Nonriv ce Soil Cracks (B6) ation Visible on Aeria r-Stained Leaves (B9 ervations: ater Present? Ye	erine) lonriverine erine) l Imagery)	(B7)	Salt Cru Biotic Cr Aquatic Hydroge Oxidized Presend Recent I Thin Mu Other (E	st (B11) rust (B12 Invertebra en Sulfide d Rhizosp ee of Reda dron Redu ck Surfac explain in	ates (B13 c Odor (C' oheres alc uced Iron uction in T ce (C7) Remarks) I) ong Living (C4) iilled Soil	g Roots (C3)	Second W Si D D D C C Si Si Si Si Si Si	dary Indicators /ater Marks (E ediment Depo rift Deposits (I rainage Patte ry-Season Wa rayfish Burrov aturation Visit hallow Aquital	s (2 or more 31) (Riverir osits (B2) (F B3) (Riveri rns (B10) ater Table (vs (C8) ole on Aeria rd (D3)	e required) ne) Riverine) ne)
DROLOG Wetland H Primary Inc X Surfa X High X Satur. Under Sedin Drift E Surfa Inund Wate Surface W: Vater Tabl	y ydrology Indicators dicators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonriv ment Deposits (B2) (N Deposits (B3) (Nonriv ce Soil Cracks (B6) ation Visible on Aeria r-Stained Leaves (B9 ervations: ater Present? Ye le Present? Ye	erine) lonriverine ll Imagery) s X	(B7)	Salt Cru Biotic Cr Aquatic Hydroge Oxidized Presend Recent I Thin Mu Other (E	st (B11) rust (B12 Invertebra en Sulfide d Rhizospae of Redu lron Redu ck Surfac explain in i (inches) i (inches)	ates (B13 Odor (C2 oheres alc uced Iron uction in Toe (C7) Remarks :1") I) ng Living (C4) Tilled Soil	g Roots (C3) s (C6)	Second W S D D D C S S F F	dary Indicators /ater Marks (E ediment Depo rift Deposits (I rainage Patte ry-Season Wa rayfish Burrov aturation Visit hallow Aquital	s (2 or more 31) (Riverir osits (B2) (R B3) (Riverir rns (B10) ater Table (vs (C8) ole on Aeria rd (D3) est (D5)	e required) ne) Riverine) ne)
Depth (inch marks: Depth (inch marks: Depth (inch marks: Depth (inch marks: Depth (inch marks: Depth (inch marks: Nate and inch marks: Surfa Linund Mater Field Obse Surface W: Water Table Saturation	y ydrology Indicators dicators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonriv ment Deposits (B2) (N Deposits (B3) (Nonriv ce Soil Cracks (B6) ation Visible on Aeria r-Stained Leaves (B9 ervations: ater Present? Ye le Present? Ye	erine) Ionriverin verine) I Imagery) s X	(B7)	Salt Cru Biotic Cr Aquatic Hydroge Oxidized Presend Recent I Thin Mu Other (E	st (B11) rust (B12 Invertebra en Sulfide d Rhizospae of Redu lron Redu ck Surfac explain in i (inches) i (inches)	ates (B13 c Odor (C' oheres alc uced Iron uction in T ce (C7) Remarks) I) ng Living (C4) Tilled Soil	g Roots (C3) s (C6)	Second W S D D D C S S F F	dary Indicators /ater Marks (E ediment Depo rift Deposits (I rainage Patte ry-Season Wa rayfish Burrov aturation Visit hallow Aquital AC-Neutral Te	s (2 or more 31) (Riverir osits (B2) (R B3) (Riverir rns (B10) ater Table (vs (C8) ole on Aeria rd (D3) est (D5)	e required) ne) Riverine) ne) (C2) al Imagery (C9
Depth (inch marks: Depth	yydrology Indicators dicators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrivenent Deposits (B2) (Nonrivenent Deposits (B6) ation Visible on Aerial r-Stained Leaves (B9) ervations: ater Present? Yeele Present? Yeele Present? Yeeles	erine) Ionriverin verine) Il Imagery) Is s X X X X	(B7)	Salt Cru Biotic Cr Aquatic Hydroge Oxidized Presend Recent I Thin Mu Other (E	st (B11) rust (B12) Invertebre en Sulfide d Rhizospe er of Redu fron Redu ck Surfac explain in (inches) (inches)	ates (B13 e Odor (C') I) ng Living (C4) iilled Soil	g Roots (C3) s (C6) Wetland H	Second W Si D C Si Si Fi	dary Indicators /ater Marks (E ediment Depo rift Deposits (I rainage Patte ry-Season Wa rayfish Burrov aturation Visit hallow Aquital AC-Neutral Te	s (2 or more 31) (Riverir osits (B2) (R B3) (Riverir rns (B10) ater Table (vs (C8) ole on Aeria rd (D3) est (D5)	e required) ne) Riverine) ne) (C2) al Imagery (C9
Depth (inch marks: DROLOG Wetland H Primary Inc X Surfa X High \(^1\) Satur- Wate Sedin Drift I Surfa Inund Wate Field Obse Surface W: Water Tabl Saturation includes c scribe Rec	y ydrology Indicators dicators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonriv ment Deposits (B2) (Nonriv ce Soil Cracks (B6) ation Visible on Aeria r-Stained Leaves (B9 ervations: ater Present? Ye le Present? Ye present? Ye apillary fringe)	erine) Ionriverin verine) Il Imagery) Is s X X X X	(B7)	Salt Cru Biotic Cr Aquatic Hydroge Oxidized Presend Recent I Thin Mu Other (E	st (B11) rust (B12) Invertebre en Sulfide d Rhizospe er of Redu fron Redu ck Surfac explain in (inches) (inches)	ates (B13 e Odor (C') I) ng Living (C4) iilled Soil	g Roots (C3) s (C6) Wetland H	Second W Si D C Si Si Fi	dary Indicators /ater Marks (E ediment Depo rift Deposits (I rainage Patte ry-Season Wa rayfish Burrov aturation Visit hallow Aquital AC-Neutral Te	s (2 or more 31) (Riverir osits (B2) (R B3) (Riverir rns (B10) ater Table (vs (C8) ole on Aeria rd (D3) est (D5)	e required) ne) Riverine) ne) (C2) al Imagery (C9
Depth (inch marks: Depth (inch marks: Depth (inch marks: Depth (inch marks: Depth (inch marks: Depth (inch marks: Depth (inch marks: Naten and head of the second o	y ydrology Indicators dicators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonriv ment Deposits (B2) (Nonriv ce Soil Cracks (B6) ation Visible on Aeria r-Stained Leaves (B9 ervations: ater Present? Ye le Present? Ye present? Ye apillary fringe)	erine) Ionriverin verine) Il Imagery) Is s X X X X	(B7)	Salt Cru Biotic Cr Aquatic Hydroge Oxidized Presend Recent I Thin Mu Other (E	st (B11) rust (B12) Invertebre en Sulfide d Rhizospe er of Redu fron Redu ck Surfac explain in (inches) (inches)	ates (B13 e Odor (C') I) ng Living (C4) iilled Soil	g Roots (C3) s (C6) Wetland H	Second W Si D C Si Si Fi	dary Indicators /ater Marks (E ediment Depo rift Deposits (I rainage Patte ry-Season Wa rayfish Burrov aturation Visit hallow Aquital AC-Neutral Te	s (2 or more 31) (Riverir osits (B2) (R B3) (Riverir rns (B10) ater Table (vs (C8) ole on Aeria rd (D3) est (D5)	e required) ne) Riverine) ne) (C2) al Imagery (C9
DROLOG Wetland H Primary Inc X Surfa X High 1 X Satur Wate Sedin Drift I Surfac Vater Tabl Saturation includes c	y ydrology Indicators dicators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonriv ment Deposits (B2) (Nonriv ce Soil Cracks (B6) ation Visible on Aeria r-Stained Leaves (B9 ervations: ater Present? Ye le Present? Ye present? Ye apillary fringe)	erine) Ionriverin verine) Il Imagery) Is s X X X X	(B7)	Salt Cru Biotic Cr Aquatic Hydroge Oxidized Presend Recent I Thin Mu Other (E	st (B11) rust (B12) Invertebre en Sulfide d Rhizospe er of Redu fron Redu ck Surfac explain in (inches) (inches)	ates (B13 e Odor (C') I) ng Living (C4) iilled Soil	g Roots (C3) s (C6) Wetland H	Second W Si D C Si Si Fi	dary Indicators /ater Marks (E ediment Depo rift Deposits (I rainage Patte ry-Season Wa rayfish Burrov aturation Visit hallow Aquital AC-Neutral Te	s (2 or more 31) (Riverir osits (B2) (R B3) (Riverir rns (B10) ater Table (vs (C8) ole on Aeria rd (D3) est (D5)	e required) ne) Riverine) ne) (C2) al Imagery (C9

Project/Site:	Carmenere Estates	S		City/County:	I own of Lo	omis, Placer Cοι	unty S	Sampling Da	te:	04/26/2
Applicant/Owner:	Building Engineering	ng and Managem	ent, Inc.			State:	CA	Sampling Po	int: DF	P13
Investigator(s):	Daria Snider			Section	n, Township	, Range: Section	n 8,Township 11	North, Ran	ge 7 Ea	st
Landform (hillslop	e, terrace, etc.):			Local re	lief (concav	e, convex, none):	:	:	Slope (%):
	Mediterranean Cali	ifornia (LRR C)	Lat:	_		1221248 Long:			Dat	um: NAD83
Soil Map Unit Nan	ne: 106 - Andre	gg coarse sandy	loam, 2 to 9%	slopes		NWI Cla				
Are climatic / hvdr	ologic conditions on						X (If I		Rema	rks.)
	, Soil				_		Circumstances"			
Are Vegetation	, Soil						plain any answe		_	
_	FINDINGS - A	_				•			,	
Hydrophytic Veget	tation Present?	Yes	No X							
Hydric Soil Preser			No X		mpled Area	Yes	N	о Х		
Wetland Hydrolog			No	within a	Wetland?					
Remarks:	y i resent:	163 X								
	much wetter than n									
VEGETATION	 Use scientific 	c names of pi	ants.							
Tree Stratum	(Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Number of Dom That Are OBL, F	inant Species		0	(A)
						Total Number of	f Dominant		<u> </u>	(A)
 1						Species Across			1	(B)
). 						•			<u> </u>	(D)
*·			0	=Total Cover		Percent of Dom That Are OBL, F	•	0	%	(A/B)
Sapling/Shrub S	Stratum (Plot size:)				Prevalence Ind	ex Worksheet:			
1						Total % Co	over of:	Multi	oly by:	
2						OBL species	x1	=	0	
3						FACW species	5 x2	= <u> </u>	0	
1. <u> </u>						FAC species	5 x3	= <u> </u>	5	
5.						FACU species	90 x4	= 3	60	
			0	=Total Cover		UPL species	0 x5	=	0	
Herb Stratum	(Plot size: _1 mete	<u>er²</u>)				Column Totals:	100 (A)	3	85	(B)
ı. Hordeum mu	ırinum		90	Χ	FACU	Prevalence In	ndex = B/A =			
2. Ranunculus	muricatus		5		FACW					
B. Poa annua			5		FAC	Hydrophytic Ve	egetation Indica	itors:		
Geranium dis	ssectum		Т		UPL	Domin	ance Test is >50	0%		
Carduus pyc	nocephalus		Т		UPL	Preval	ence Index is ≤	3.0 ¹		
3.	-					Mornh	ological Adaptat	ions ¹ (Provid	le sunn	ortina
7.		-	-				n Remarks or on			9
 B.		_				Proble	matic Hydrophy	tic Vegetatio	n¹ (Exp	lain)
-			100	=Total Cover			, , , , ,	3	, ,	,
	ratum (Plot size: _					¹ Indicators of hy be present, unle		,	gy mus	st
2.						Hydrophytic	<u></u>			
				=Total Cover		Vegetation				
% Bare Ground	l in Herb Stratum	0	% Cover of	Biotic Crust _	0	Present?	Ye	s	No	X
Remarks:										

Profile De	escription: (Describe	to the depth r	eeded to do	cument t	he indicat	tor or co	onfirm the abse	nce of indicators.)	
Depth	Matrix		Re	dox Feat			<u> </u>		
(inches)	Color (moist)	% Co	olor (moist)	%	Type ¹	Loc ²	Texture		Remarks
0-3	10YR 3/1	100					sandy loam		
3-6	7.5YR 4/1	95 7.5	/R 3/4	5	С	M	sand		
	- ·						_		
							_	_	
¹ Type: C=0	Concentration, D=Depletion	on, RM=Reduce	d Matrix, CS=C	overed or	Coated Sa	and Grain	s. ² Location: PL	=Pore Lining, M=Mat	rix.
Hydric So	oil Indicators: (Applica	able to all I Pi	Pe unlace at	horwica	noted)		Indicators fo	or Problematic Hy	dric Soils ³ :
-	osol (A1)	able to all Livi		Redox (S	-			uck (A9) (LRR C)	unc dons .
	c Epipedon (A2)			d Matrix (uck (A10) (LRR B)	
	k Histic (A3)				neral (F1)			ed Vertic (F18)	
				-					
	ogen Sulfide (A4)	C)		-	atrix (F2)		_	rent Material (TF2)	١
_	ified Layers (A5) (LRR	C)		d Matrix (Other (i	Explain in Remarks)
	Muck (A9) (LRR D)	· (A11)		Dark Surf		7)			
	eted Below Dark Surfac	æ (ATT)			urface (F7)			
	k Dark Surface (A12)			Depressio				dicators of hydroph	
	dy Mucky Mineral (S1)		vernai i	Pools (F9)		,	wetland hydrology r	·
	dy Gleyed Matrix (S4)					-		unless disturbed	or problematic.
Restrictiv	e Layer (if present):								
Type:			<u>.</u>						
Depth (inc	ches):		<u>.</u>			н	ydric Soil Prese	ent?	′es X No
Remarks:									
HYDROLOG	ey.								
	Hydrology Indicators:								
	dicators (minimum of o	ne required: cl	neck all that a	nnly)			S	econdary Indicators	(2 or more required)
	ace Water (A1)	ne required, or		ıst (B11)				Water Marks (E	
	Water Table (A2)			rust (B12	1		_	_ `	sits (B2) (Riverine)
	` ,				•		_	_	, , , , ,
	ration (A3)				ates (B13	-	_	Drift Deposits (I	
	er Marks (B1) (Nonrive				Odor (C1		(00)	Drainage Patte	
	ment Deposits (B2) (No	-		-		-	g Roots (C3)	Dry-Season Wa	
	Deposits (B3) (Nonrive	erine)			uced Iron	. ,		Crayfish Burrov	
	ace Soil Cracks (B6)				uction in T	illed Soi	ls (C6)		ole on Aerial Imagery (C9)
	dation Visible on Aerial	Imagery (B7)		ick Surfac	` '		_	Shallow Aquita	` '
Wate	er-Stained Leaves (B9)		Other (Explain in	Remarks)		FAC-Neutral Te	est (D5)
Field Obs	ervations:								
Surface W	/ater Present? Yes	No	X Depti	n (inches)	:				
Water Tab	ole Present? Yes	No	X Depth	n (inches)	:				
Saturation	Present? Yes	No	X Depti	n (inches)	:		Wetland Hyd	rology Present?	Yes X No
•	capillary fringe)								
Describe Re	corded Data (stream ga	auge, monitorii	ng well, aerial	photos, p	orevious ir	spection	ns), if available:		
Remarks:									
tomanto.									

Project/Site:	Carmenere Estates			City/County:	Town of Lo	omis, Plac	er County	58	ampling Da	te:	07/19/23
Applicant/Owner:	Building Engineerin	g and Manageme	nt, Inc.				State: CA	Sa	ampling Po	int: DP1	4
Investigator(s):	Daria Snider			Section	n, Township	, Range:	Section 8,To	ownship 11 ľ	North, Ran	ge 7 East	
Landform (hillslop	e, terrace, etc.):	Topographic sw	/ale	Local re	lief (concav	e, convex,	none): Con	cave	;	Slope (%)	: 2-5
Subregion (LRR):	Mediterranean Calif	ornia (LRR C)	Lat:		38.8	1265714	Long:	-121	.2251248	Datur	n: NAD83
Soil Map Unit Nan	ne: 106 - Andreg	gg coarse sandy l	oam, 2 to 9%	slopes		N	IWI Classific	ation: None	е		
Are climatic / hydr	ologic conditions on	the site typical for	r this time of	year?	Yes_		No	X (If no	o, explain ir	Remark	s.)
Are Vegetation	, Soil	_, or Hydrology		significantly	disturbed?	Are "No	ormal Circur	mstances" pi	resent? '	res X	No
Are Vegetation	, Soil	_, or Hydrology		naturally pro	blematic?	(If need	ed, explain	any answers	in Remark	(s.)	
SUMMARY OF	FINDINGS - At	tach site map	showing	sampling _l	point loca	itions, tr	ansects, i	mportant	features	, etc.	
Hydrophytic Vege	tation Present?	Yes N	o X								
Hydric Soil Preser	nt?	Yes N	о Х		mpled Area Wetland?	1	Yes	No	X		
Wetland Hydrolog	y Present?	Yes N	o X	within a	wettanu:						
Remarks:				L							
	on to 1. Rain year mu - Use scientific										
			Absolute % Cover		Indicator Status		ce Test wo				
	(Plot size:)	70 00101	——————————————————————————————————————			of Dominant OBL, FACW	•		_	4
1										1	(A)
2							nber of Dom Across All St			_	(5)
3						Opecies /	ACIOSS All OI	uata.		2	(B)
4			0	-Tatal Cavar			of Dominant	•	-	20/	(A/D)
				=Total Cover		That Are	OBL, FACW	, or FAC:)%	(A/B)
Sanling/Shrub	Stratum (Plot size: _	,				Provalen	ce Index W	orkshoot.			
1	Stratum (1 lot 3/20	/					al % Cover o		Multi	oly by:	
2.						OBL spec		0 x1 =		0 0	
3.						FACW sp		0 x2 =		0	
4.						FAC spec		40 x3 =		20	
5.						FACU sp	ecies	60 x4 =	2	40	_
			0	=Total Cover		UPL spec	ies	0 x5 =		0	
Herb Stratum	(Plot size: _1 meter	<u>r²</u>)				Column T	otals: 1	100 (A)	3	60	(B)
1. Festuca pere	ennis		40	X	FAC	Prevale	ence Index =	= B/A =	3.6		
2. Anthemis co	tula		40	X	FACU						
3. <i>Festuca myu</i>			10		FACU	Hydroph	ytic Vegeta	tion Indicate	ors:		
4. <u>Leontodon s</u>	axatilis		10		FACU			Test is >50%			
5							Prevalence	Index is ≤3.	.0 ¹		
								cal Adaptatio			ting
7		_						arks or on a		,	
8			400				Problematic	Hydrophytic	o Vegetatio	n (Explai	n)
Woody Vine St	ratum (Plot size:)	100	=Total Cover	•			oil and wetla sturbed or pr		gy must	
2.						Hudronb	utic				
				=Total Cover	-	Hydroph Vegetation					
% Bare Ground	l in Herb Stratum	0	% Cover of	Biotic Crust	0	Present?		Yes		No	<u>X</u>
Remarks:											

Profile Des Depth	Matri	Κ.		Red	dox Featι	ures							
inches)	Color (moist)) %	Color (moist)	%	Type ¹	Loc ²	Texture	е		Rema	rks	
)-12	10YR 3/2	100						sandy loar	n	No redox			
										-			
			-	 -									
			-	 -									
			-	 .				-					
			-										
ype: C=C	oncentration, D=De	pletion, RM=Re	duced Ma	trix, CS=C	overed or	Coated Sar	nd Grains.	² Location: 1	PL=Pore	Lining, M=Ma	trix.		
vdric Soi	I Indicators: (Ap	plicable to al	l LRRs. u	ınless oth	nerwise r	noted.)		Indicators	for Pr	oblematic Hy	dric Soils	3.	
-	sol (A1)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,		Redox (S5					A9) (LRR C)		•	
	Epipedon (A2)			-	l Matrix (S	•		_		A10) (LRR B))		
	Histic (A3)					neral (F1)				ertic (F18)	,		
_	gen Sulfide (A4)			-	-	atrix (F2)		_		Material (TF2))		
_	ied Layers (A5) (L	RR C)	X	-	d Matrix (_		in in Remark			
_	Muck (A9) (LRR D	-		-	Dark Surfa				ı (Expic	an in recinant	3)		
	ted Below Dark S	-				urface (F7)							
				-									
_	Dark Surface (A1	•			Depressio			3		ors of hydroph	, ,		
	y Mucky Mineral (S	•		veillair	Pools (F9))				nd hydrology			
	y Gleyed Matrix (S	•							unii	ess disturbed	or problem	iauc.	
/pe: epth (inch	e Layer (if presen		<u>—</u> ——				Ну	dric Soil Pre	esent?		Yes	No)
ype: epth (inch							Ну	dric Soil Pre	esent?		Yes	No)
ype: epth (inch marks:	nes):						Ну	dric Soil Pro	esent?		Yes	No _	>
ype: epth (inch narks: DROLOG	nes):						Ну	dric Soil Pro	esent?		Yes	No	<u> </u>
ype:epth (inch narks: DROLOG	Y ydrology Indicato	ors:					Ну	dric Soil Pro				<u> </u>	<u> </u>
ype:epth (inch narks: DROLOG /etland H	Y ydrology Indicato licators (minimum	ors:	ad; check				Ну	dric Soil Pro	Secon	dary Indicator	s (2 or mor	re required)	
peth (inch parks: DROLOG etland H rimary Inc	Y ydrology Indicate licators (minimum ce Water (A1)	ors:	<u>}d; check</u>	Salt Cru	st (B11)		Ну	dric Soil Pro	Secon V	dary Indicator Vater Marks (I	s (2 or moi B1) (River i	re required)	
ype:epth (inchest) PROLOG Vetland H rimary Inc Surfac High \(\text{High} \)	Y ydrology Indicate dicators (minimum ce Water (A1) Water Table (A2)	ors:	ed; check	Salt Crus Biotic Cr	st (B11) rust (B12)	•		dric Soil Pro	Secon V	dary Indicator Vater Marks (I Sediment Depo	s (2 or moi B1) (River i osits (B2) (re required) ine) (Riverine)	
ype:epth (inches) PROLOG Vetland H rimary Inc Surfar High \ Satur:	y ydrology Indicate licators (minimum ce Water (A1) Water Table (A2) ation (A3)	ors: of one require	ed; check	Salt Crus Biotic Cr Aquatic	st (B11) rust (B12) Invertebra	ates (B13)		dric Soil Pro	<u>Secon</u> V	dary Indicator Vater Marks (I Sediment Depo Drift Deposits (s (2 or mor B1) (Riveri osits (B2) ((B3) (River	re required) ine) (Riverine)	
ppe:epth (inchest) property	yyydrology Indicato licators (minimum ce Water (A1) Water Table (A2) ation (A3)	ors: of one require	_ _ _	Salt Crus Biotic Cr Aquatic Hydroge	st (B11) rust (B12) Invertebra en Sulfide	ates (B13) Odor (C1))		Secon V S C C C C C C C C C	dary Indicator Vater Marks (I Sediment Dep Orift Deposits (Orainage Patte	s (2 or mor B1) (River i osits (B2) ((B3) (River erns (B10)	re required) ine) (Riverine) rine)	
ype:epth (inchently find the period of t	yyydrology Indicato dicators (minimum ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Non nent Deposits (B2)	ors: of one require riverine)) (Nonriverine	_ _ _	Salt Crus Biotic Cr Aquatic Hydroge Oxidized	st (B11) rust (B12) Invertebra en Sulfide d Rhizosp	ates (B13) Odor (C1) oheres alor) ng Living	dric Soil Pre	Secon	dary Indicator Vater Marks (I Sediment Dep Drift Deposits (Drainage Patte Dry-Season W	s (2 or mor B1) (River i osits (B2) ((B3) (River erns (B10) ater Table	re required) ine) (Riverine) rine)	
pype:epth (inch narks:	Y ydrology Indicate licators (minimum ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Non nent Deposits (B2) Deposits (B3) (Nor	ors: of one require riverine)) (Nonriverine)	_ _ _	Salt Crus Biotic Cr Aquatic Hydroge Oxidized Presence	st (B11) rust (B12) Invertebra en Sulfide d Rhizosp ee of Redu	ates (B13) Odor (C1) oheres alor uced Iron () ng Living C4)	Roots (C3)	Secon V S S C C C C C C C C	dary Indicator Vater Marks (I Sediment Depo Drift Deposits (Drainage Patte Dry-Season W Crayfish Burro	s (2 or mor B1) (Riveri osits (B2) ((B3) (River erns (B10) ater Table ws (C8)	re required) ine) (Riverine) rine)	
pype:epth (inch narks:	y ydrology Indicato licators (minimum ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Non nent Deposits (B2) Deposits (B3) (Nor ce Soil Cracks (B6)	ors: of one require riverine) (Nonriverine nriverine)	 	Salt Crus Biotic Cr Aquatic Hydroge Oxidized Presenc Recent I	st (B11) rust (B12) Invertebra en Sulfide d Rhizosp ee of Redu	ates (B13) Odor (C1) Oheres alor uced Iron (uction in Ti) ng Living C4)	Roots (C3)	Secon	dary Indicator Vater Marks (I Sediment Depo Prift Deposits (Orainage Patte Ory-Season W Crayfish Burror Saturation Visi	s (2 or mol B1) (Riveri osits (B2) ((B3) (River erns (B10) fater Table ws (C8) ble on Aeri	re required) ine) (Riverine) rine)	
pype: pepth (inch narks: DROLOG /etland H rimary Inc Surfar High \ Satura Water Sedin Drift E Surfar	Y ydrology Indicate licators (minimum ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Non nent Deposits (B2)	ors: of one require riverine) (Nonriverine nriverine)	 	Salt Crus Biotic Cr Aquatic Hydroge Oxidized Presenc Recent I	st (B11) rust (B12) Invertebra en Sulfide d Rhizosp ee of Redu	ates (B13) Odor (C1) Oheres alor uced Iron (uction in Ti) ng Living C4)	Roots (C3)	Secon	dary Indicator Vater Marks (I Sediment Depo Drift Deposits (Drainage Patte Dry-Season W Crayfish Burro	s (2 or mol B1) (Riveri osits (B2) ((B3) (River erns (B10) fater Table ws (C8) ble on Aeri	re required) ine) (Riverine) rine)	
pype:	y ydrology Indicato licators (minimum ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Non nent Deposits (B2) Deposits (B3) (Nor ce Soil Cracks (B6)	ors: of one require riverine) (Nonriverine nriverine) s) erial Imagery (Salt Crus Biotic Cr Aquatic Hydroge Oxidized Presenc Recent I Thin Mu	st (B11) rust (B12) Invertebra en Sulfide d Rhizosp ee of Redu fron Redu ck Surfac	ates (B13) Odor (C1) Oheres alor uced Iron (uction in Ti) ng Living C4) Iled Soils	Roots (C3)	Secon	dary Indicator Vater Marks (I Sediment Depo Prift Deposits (Orainage Patte Ory-Season W Crayfish Burror Saturation Visi	s (2 or mol B1) (Riveri osits (B2) ((B3) (River erns (B10) fater Table ws (C8) ble on Aeri ard (D3)	re required) ine) (Riverine) rine)	
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Project/Site:	Carmenere Estates	3		City/County:	Town of Lo	omis, Placer C	County	Samplin	ıg Date:	07/19/2
Applicant/Owner:	Building Engineering	ng and Managem	ent, Inc.			Stat	te: CA	Samplin	ıg Point: D	P15
Investigator(s):	D. Snider			Section	n, Township	, Range: <u>Sec</u>	tion 8,Township	11 North,	Range 7 Ea	ast
Landform (hillslop	e, terrace, etc.):	Hillslope		Local re	lief (concav	e, convex, non	ie): None		Slope (%): 2-5
Subregion (LRR):	Mediterranean Cali	fornia (LRR C)	Lat:	_	38.8	1074386 Loi	ng: -	-121.2261	846 Da	tum: NAD83
Soil Map Unit Nan		gg coarse sandy		6 slopes		NWI	Classification: I	None		
Are climatic / hvdr	ologic conditions on				Yes		No X (If no. expl	ain in Rema	ırks.)
	, Soil				_		al Circumstance			
Are Vegetation	, Soil						explain any ansv			
_	FINDINGS - A					•			•	
Hydrophytic Vege	tation Procent?	Yes	No X							
Hydric Soil Preser			No X		mpled Area	a y	es	No	X	
Wetland Hydrolog			No	within a	Wetland?	• •				
Remarks:	y Fresent!	165 <u>X</u>	NO							
	nuch wetter than no									
VEGETATION	 Use scientific 	names of pi	ants.							
Tree Stratum	(Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Number of Do	Test worksheet ominant Species _, FACW, or FAC	5	1	(A)
2.			-			Total Number	r of Dominant	-		`
3			-			Species Acro			2	(B)
4			-			Davaget of Da	main ant Cuasias			(-/
·			0	=Total Cover			ominant Species _, FACW, or FAC		50%	(A/B)
Herb Stratum Festuca pere Anthemis cot Centaurea so Mentha pule Hordeum ma Festuca bror Festuca bror Resident	tula olstatitis gium rinum	nr ²)	70 20 T 5 5	=Total Cover X X ==Total Cover	FACU UPL OBL FACU FACU	Total % OBL species FACW species FACU species FACU species UPL species Column Total Prevalence Hydrophytic Don Prev Mor data Prol	0 75 75 75 85 20 75 70 70 70 70 70 70 70 70 70 70 70 70 70	x1 =	rate sheet) etation ¹ (Exp	(B)
1 2						Hydrophytic		2. PIODICII		
% Bare Ground	l in Herb Stratum	0	% Cover of	=Total Cover Biotic Crust	0	Vegetation Present?		Yes	No	X
Remarks:				-						
remares.										

Depth	Matı	rix		Red	dox Featι	ıres						
inches)	Color (mois		Color (%	Type ¹	Loc ²	Textur	е		Remark	(S
- 6	10YR 4/2	90	7.5YR 3/		10	C	M	sandy loa				-
							-					
	_											
	_			·			-					
								•				
	_											
				 •								
Type: C=C	oncentration, D=De	pletion, RM=Re	duced Matri	x, CS=Cov	ered or Co	oated Sand	Grains.	Location: PL	=Pore Lining	, M=Matrix.		
Jydric Soi	I Indicators: (A	onlicable to a	II I PPe u	nloss oth	arwisa n	oted)		Indicator	s for Probl	ematic Hydr	ric Soile ³ :	
•	sol (A1)	opiicable to a	ii ERRS, ui		edox (S5	•			Muck (A9	•	ic soils .	
	Epipedon (A2)			-	Matrix (S					0) (LRR B)		
	Histic (A3)				•	neral (F1)			uced Vertic			
	gen Sulfide (A4)			-	-	atrix (F2)				terial (TF2)		
	ied Layers (A5) (I PP C)		-	d Matrix (n Remarks)		
	Muck (A9) (LRR	-	X	•	,	,			i (Explail)	ii ixeiliaiks)		
	ted Below Dark S	•				urface (F7	' \					
	Dark Surface (A				epressio	,	,		_			
	/ Mucky Mineral (•		Vernal P	•	. ,				of hydrophyt		
	/ Mucky Milleral (/ Gleyed Matrix (V CIIIAI F	0015 (1 9)	,				hydrology modisturbed or		
		·									'	
Restrictive Type: Depth (inch	e Layer (if presented by Layer (if presented						Ну	dric Soil Pro	esent?	Υє	es X	No
Restrictive Type: Depth (inch	nes):						Ну	dric Soil Pr	esent?	Υє	es <u>X</u>	No
Restrictive Type: Depth (inch	nes):						Ну	dric Soil Pr	esent?	Υє	es X	No
Restrictive ype: Depth (inch	nes):						ну	rdric Soil Pr	esent?	Υє	es X	No
Restrictive Type: Depth (inch	nes):						Ну	rdric Soil Pro	esent?	Υє	es X	No
Restrictive Type: Depth (inch	nes): ovel refusal after						Ну	rdric Soil Pr	esent?	Ye	es X	No
Restrictive Type: Depth (inch marks: Sho	nes): ovel refusal after	6 inches					ну	rdric Soil Pr	esent?	Ye	es X	No
Restrictive Type: Depth (inch marks: She DROLOG	nes): nes): novel refusal after	6 inches	ed; check	all that ap	ply)		Ну	rdric Soil Pr		Ye		
Restrictive Type: Depth (inch marks: Sho DROLOG Vetland H Primary Ind	nes): ovel refusal after Y ydrology Indicat	6 inches	ed; check	all that ap Salt Crus			Ну	rdric Soil Pr	Secondar		(2 or more	required)
Restrictive iype: Depth (inch marks: Shi DROLOG Vetland H Primary Inc Surfac	nes): ovel refusal after Y ydrology Indicaticators (minimum	6 inches tors:	ed; check	Salt Crus)	Ну	rdric Soil Pr	Secondar Wat	y Indicators ((2 or more	e required)
DROLOG Vetland H Primary Ind Surfac High \(\)	ovel refusal after Y ydrology Indicaticators (minimum ce Water (A1)	6 inches tors:	ed; check	Salt Crus Biotic Cr	st (B11) ust (B12)) ates (B13		rdric Soil Pr	Secondar Wat	y Indicators (er Marks (B1	(2 or more) (Riverin its (B2) (R	e required) e) iiverine)
Restrictive iype: Pepth (inch marks: Shi DROLOG Vetland H rimary Ind Surfar High \ Satura	ovel refusal after Y ydrology Indicat licators (minimun ce Water (A1) Nater Table (A2)	6 inches tors:	ed; check	Salt Crus Biotic Cr Aquatic I	st (B11) ust (B12) Invertebra)	rdric Soil Pro	Secondar Wat Sed Drift Drai	y Indicators (er Marks (B1 iment Deposi Deposits (B3 nage Pattern	(2 or more) (Riverin its (B2) (R 3) (Riverin is (B10)	e required) e) tiverine)
DROLOG Vetland H Surfac High \ Satura Water Sedim	y yydrology Indicat licators (minimum ce Water (A1) Water Table (A2) ation (A3) Marks (B1) (Non nent Deposits (B2)	6 inches tors: n of one requirentiverine) 2) (Nonriverine	_ _ _	Salt Crus Biotic Cr Aquatic I Hydroge	st (B11) ust (B12) Invertebra n Sulfide	ates (B13 Odor (C)	rdric Soil Pro	Secondar Wat Sed Drift Drai	y Indicators (er Marks (B1 iment Deposi Deposits (B:	(2 or more) (Riverin its (B2) (R 3) (Riverin is (B10)	e required) e) tiverine)
DROLOG Vetland H Surfac High \ Satura Water Sedim	y ydrology Indicat licators (minimum ce Water (A1) Water Table (A2) ation (A3)	6 inches tors: n of one requirentiverine) 2) (Nonriverine	_ _ _	Salt Crus Biotic Cr Aquatic I Hydroge Oxidized	st (B11) ust (B12) Invertebra n Sulfide	ates (B13 Odor (C) I) ng Living		Secondal Wat Sed Driff Drai	y Indicators (er Marks (B1 iment Deposi Deposits (B3 nage Pattern	(2 or more) (Riverin its (B2) (R 3) (Riverin is (B10) er Table (e required) e) tiverine)
DROLOG' Vetland H Surfac High V Satura Water Sedin Drift E	y yydrology Indicat licators (minimum ce Water (A1) Water Table (A2) ation (A3) Marks (B1) (Non nent Deposits (B2)	tors: n of one requirentiverine) 2) (Nonriverine)	_ _ _	Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence	st (B11) ust (B12) Invertebra n Sulfide I Rhizosp e of Redu	ates (B13 Odor (C heres ald uced Iron) I) ng Living	Roots (C3)	Secondal Wat Sed Driff Drai Dry- Cray	y Indicators (er Marks (B1 iment Deposi Deposits (B: nage Pattern Season Wat	(2 or more) (Riverin its (B2) (R 3) (Riverin is (B10) er Table (6	e required) e) e) iiverine) ne)
DROLOG Vetland H High V Satura Water Sedin Drift E Surfac	y yydrology Indicat licators (minimum ce Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonent Deposits (B2)	tors: n of one requirentiverine) (2) (Nonriverine) (b) (Nonriverine)	e) <u>X</u>	Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent Is	st (B11) ust (B12) Invertebra n Sulfide I Rhizosp e of Redu	ates (B13 Odor (C heres alc uced Iron uction in T) I) ing Living (C4)	Roots (C3)	Secondal Wat Sed Driff Drai Dry- Cray	y Indicators (er Marks (B1 iment Deposi Deposits (B: nage Pattern Season Wat rfish Burrows	(2 or more) (Riverin its (B2) (R 3) (Riverin is (B10) er Table (6 (C8) e on Aeria	e required) e) e) iiverine) ne)
DROLOG Vetland H Satura High \ Sedin Sedin Surfar Surfar Inund	y ydrology Indicat licators (minimum ce Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonent Deposits (B2) Deposits (B3) (No	6 inches tors: n of one require (Nonriverine) (Onriverine)	e) <u>X</u>	Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent II	st (B11) ust (B12) Invertebra n Sulfide I Rhizosp e of Redu ron Redu ck Surfac	ates (B13 Odor (C heres alc uced Iron uction in T) I) ing Living (C4) iilled Soils	Roots (C3)	Secondal Wat Sed Driff Drai Dry- Cray Satu	y Indicators (er Marks (B1 iment Deposi Deposits (B: nage Pattern Season Wate frish Burrows iration Visible	(2 or more) (Riverin its (B2) (R its (B10) er Table (G 6 (C8) e on Aeria (D3)	e required) e) e) iiverine) ne)
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Project/Site:	Carmenere Estates	3		City/County:	Town of Lo	oomis, Place	r County	Samp	oling Date:		07/19/23
Applicant/Owner:	Building Engineering	ng and Manageme	ent, Inc.			St	tate: <u>CA</u>	Samp	oling Point:	DP16	
Investigator(s):	D. Snider			Section	n, Township	, Range: S	ection 8,Towns	hip 11 Nor	th, Range 7	East	
Landform (hillslop	e, terrace, etc.):	Hillslope		Local re	elief (concav	e, convex, n	one): None		Slope	e (%): 2-	-5
Subregion (LRR):	Mediterranean Cali	ifornia (LRR C)	Lat:	_	38.8	1072701 L	_ong:	-121.22	61749 E	Datum: N	IAD83
Soil Map Unit Nan	ne: 106 - Andre	egg coarse sandy	loam, 2 to 9%	6 slopes			VI Classification				
Are climatic / hvdr	ologic conditions on	the site typical fo	or this time of	vear?	Yes		No X	(If no. e	xplain in Rer	marks.)	
	, Soil						mal Circumsta				lo
Are Vegetation	, Soil						d, explain any a				
_	FINDINGS - A	_							,	Э.	
Hydrophytic Vege	tation Present?	Yes N	No X								
Hydric Soil Preser			10 X		ampled Area	a	Yes	No	X		
Wetland Hydrolog			vo X	within a	a Wetland?						
Remarks:	y i resent:	1651	10 X								
	Rain year much wet										
VEGETATION	 Use scientific 	names of pla	ants.								
			Absolute	Dominant	Indicator	Dominance	e Test worksh	eet:			
Tree Stratum	(Plot size:)	% Cover	Species?	Status	Number of	Dominant Spec	cies			
1.			-			That Are O	BL, FACW, or	FAC:	0	(/	A)
2.						Total Numb	per of Dominan	t			,
3.						Species Ac	ross All Strata:		4	(F	В)
4						Davaget of	Daminant Cas				-,
			0	=Total Cove			Dominant Speci BL, FACW, or I		0%	(/	A/B)
							, - ,				,
Sapling/Shrub	Stratum (Plot size:)				Prevalence	e Index Works	heet:			
1.						Total	% Cover of:		Multiply by	y:	
2.						OBL specie	es O	x1 =	0		
3.						FACW spe	cies 0	x2 =	0		
4.						FAC specie	es 0	x3 =	0		
5.						FACU spec	cies 62	x4 =	248		
			0	=Total Cove		UPL specie	es 20	x5 =			
Herb Stratum	(Plot size: _1 mete	er ²)				Column To	tals: 82	(A)	348	(E	В)
1. Bromus horo	-		20	Х	FACU	Prevalen	nce Index = B/A		4.2		•
2. Hypochaeris	glabra		20	X	UPL						
3. Anthemis co	tula		20	X	FACU	Hydrophyt	ic Vegetation	Indicators	:		
4. Festuca bror			20	X	FACU		ominance Test				
5. Centaurea s			T		UPL		revalence Inde				
6. Cynodon dad			2		FACU		lorphological A	dantations ¹	(Provide cu	pporting	
7. Lactuca serr	•		T		FACU		ata in Remarks				
8. Festuca pere					FAC		roblematic Hyd		•	,	
			82	=Total Cove					J (-		
Woody Vine St	ratum (Plot size:)		10101 00101	'	¹ Indicators	of hydric soil a	nd wetland	hydrology n	nuet	
1.	<u> </u>	/					, unless disturb			lust	
2.			-				•				
Z				=Total Cove		Hydrophyt					
% Bare Ground	Lin Herh Stratum	18				Vegetation	1	Vos	No	X	
	I III I ICID Girataili		70 OOVET OF	Diotic Orașt		r resent:		103			
% Bare Ground Remarks:	l in Herb Stratum	18	% Cover of		0	Present?		Yes	No	X	<u>-</u> -

Sandy Mucky Mineral (S1) Vernal Pools (F9) wetland hydrology must be prese unless disturbed or problematic Restrictive Layer (if present): Type: Depth (inches):	Sandy loam No redox	Depth	Matrix		Re	dox Fea	tures		_			
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix.* Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix.* Histoso (AI)	Sandy loam No redox		Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	;
lydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosoi (A1)	Able to all LRRs, unless otherwise noted.) Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Reduced Vertic (F18) Reduced Vertic (F18) Redox Dark Surface (F6) Redox Dark Surface (F6) Redox Dark Surface (F7) Redox Depleted Dark Surface (F7) Redox Depressions (F8) Vernal Pools (F9) Multiply Matrix (B1) Salt Crust (B12) Aquatic Invertebrates (B13) Aquatic Invertebrates (B13) Aquatic Invertebrates (B13) Aquatic Invertebrates (B13) Arine) Hydrogen Sulfide Odor (C1) Prisence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Imagery (B7) No X Depth (inches): No X Depth (inches): No X Depth (inches): No X Depth (inches): No X Depth (inches): Wetland Hydrology Present? Yes No X	-6	10YR 3/2	100					sandy loam	No redox		
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Redox (S5) Histosol (A2) Stirpped Matrix (S6) Histosol (A2) Stirpped Matrix (S6) Hydrogen Sulfide (A2) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Reduced Vertic (F18) Hydrogen Sulfide (A9) Loamy Gleyed Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Depleted Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Wetland hydrology must be prese unless disturbed or problematic testrictive Layer (if present): ype: ype: ype: yph: yp	Able to all LRRs, unless otherwise noted.) Sandy Redox (S5) Stripped Matrix (S6) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Reduced Vertic (F18) Red											
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tydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Redox (S5) Histosol (A2) Histosol (A2) Stirped Matrix (S8) Black Histic (A3) Loamy Mukok (Mineral (F1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Loamy Gleyed Matrix (F3) Torm Muck (A9) (LRR B) Black Histic (A3) Loamy Gleyed Matrix (F2) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Wetland hydrology must be prese unless disturbed or problematic testrictive Layer (if present): "ype: "pepth (inches): "marks: **Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more regulated): "primary Indicators (minimum of one required; check all that apply) Brock (A9) Wetland Hydrology Indicators: **Primary Indicators (minimum of one required; check all that apply) Brock (B1) (Nonriverine) Hydric Soil Present? Yes **Primary Indicators (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B8) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No X Depth (inches): Water Table (Pcesent? Yes No X Depth (inches): Wetland Hydrology Present? Yes Wetland Hydrology Present? Yes Metland Hydrology Present? Yes Metland Hydrology Present? Yes Metland Hydrology Present? Yes Metland Hydr	Able to all LRRs, unless otherwise noted.) Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Reduced Vertic (F18) Reduced Vertic (F18) Redox Dark Surface (F6) Redox Dark Surface (F6) Redox Dark Surface (F7) Redox Depleted Dark Surface (F7) Redox Depressions (F8) Vernal Pools (F9) Multiply Matrix (B1) Salt Crust (B12) Aquatic Invertebrates (B13) Aquatic Invertebrates (B13) Aquatic Invertebrates (B13) Aquatic Invertebrates (B13) Arine) Hydrogen Sulfide Odor (C1) Prisence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Imagery (B7) No X Depth (inches): No X Depth (inches): No X Depth (inches): No X Depth (inches): No X Depth (inches): Wetland Hydrology Present? Yes No X											
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Field Observations: Surface Water Present? Yes	No X Depth (inches): No X Depth (inches): No X Depth (inches): Wetland Hydrology Present? Yes No)	Inund	ation Visible on Aeria	l Imagery (B	7) Thin Mu	ick Surfa	ace (C7)			Shallow Aquitar	d (D3)	
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includes capillary fringe) scribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		Water Tabl	e Present? Ye	s I	No X Depth	n (inches	s):					
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	auge, monitoring well, aerial photos, previous inspections), if available:											
emarks:		scribe Red	corded Data (stream o	gauge, moni	toring well, aerial	photos,	previous ins	pections	s), if available:			
		marks:										

Project/Site:	Carmenere Estates	8		City/County:	Town of Lo	omis, Placer C	ounty	Samp	ling Date: _	07/19/23
Applicant/Owner:	Building Engineering	ng and Managen	nent, Inc.			State	e: CA	Samp	ling Point: [DP17
Investigator(s):	D. Snider			Section	n, Township	, Range: <u>Sect</u>	tion 8,Township	11 Nort	h, Range 7 E	East
Landform (hillslop	e, terrace, etc.):	Hillslope		Local re	elief (concav	e, convex, none	e): None		Slope	(%): 1-3
Subregion (LRR):	Mediterranean Cali	ifornia (LRR C)	Lat:	-	38.8	1116489 Lor	ng:	-121.22	54235 Da	atum: NAD83
Soil Map Unit Nan	ne: 106 - Andre	egg coarse sand	y loam, 2 to 9%	slopes		NWI	Classification:	None		
Are climatic / hydr	ologic conditions on	the site typical	for this time of	year?	Yes		No X	(If no, ex	plain in Rem	narks.)
	, Soil				_		al Circumstance			
Are Vegetation	, Soil						explain any ans	•	_	
_	FINDINGS - A					•				
Hydrophytic Vege	tation Present?	Yes	No X							
Hydric Soil Preser			No		mpled Area	a Ye	es	No	X	
Wetland Hydrolog			No	within a	Wetland?					
Remarks:	,	100								
	ignature and downhi			ar much wett	er than norn	nal.				
								·		
Tree Stratum 1.	(Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Number of Do	Test workshee ominant Species ., FACW, or FA	3	1	(A)
2						Total Number	of Dominant			(A)
3						Species Acros			3	(B)
4						Develop of De	main ant Conssiss	_		(5)
· ·			0	=Total Cove			minant Species , FACW, or FA		33%	(A/B)
							, - ,	_		
Sapling/Shrub	Stratum (Plot size:)				Prevalence In	ndex Workshe	et:		
1.	·	,				Total %	Cover of:		Multiply by	:
2.						OBL species	0	x1 =	0	
3.						FACW specie	s 0	x2 =	0	
4.						FAC species		x3 =	105	
5.						FACU species	s 0	x4 =	0	
			0	=Total Cove		UPL species		x5 =	300	
Herb Stratum	(Plot size: _1 mete	er ²)				Column Totals		(A)	405	(B)
1. Festuca pere	-		30	Χ	FAC		Index = B/A =	`	4.3	`` ′
2. Centaurea s	olstitatis		20	X	UPL		-			
3. Hypochaeris	glabra		40	X	UPL	Hydrophytic	Vegetation Ind	licators:		
4. Anthemis co			T		FACU	Dom	ninance Test is	>50%		
5. Hordeum ma	arinum		5		FAC		alence Index is			
6.						Morr	ohological Adap	ntations ¹	(Provide sur	norting
7.							in Remarks or			
8.						Prob	lematic Hydrop	hytic Ve	getation ¹ (Ex	(plain)
· ·	ratum (Plot size: _			=Total Cove	r		hydric soil and nless disturbed			ust
2.						Hydrophytic				
				=Total Cove	r	Vegetation				
% Bare Ground	l in Herb Stratum	5	% Cover of	Biotic Crust	0	Present?		Yes	No_	X
Remarks:										

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Locat Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sendy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleyed Matrix (S4) Restrictive Layer (if present):	Texture Remarks Indy loam Ition: PL=Pore Lining, M=Matrix. Ition: PL=Po
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators: (Applicable to all LRRs, unless otherwise	tion: PL=Pore Lining, M=Matrix. dicators for Problematic Hydric Soils³: 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Fype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Post	tion: PL=Pore Lining, M=Matrix. dicators for Problematic Hydric Soils³: 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
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Algoric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Stripped Matrix (S6) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): DROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Biotic Crust (B12)	dicators for Problematic Hydric Soils³: 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Algoric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Stripped Matrix (S6) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): DROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Biotic Crust (B11) Biotic Crust (B12)	dicators for Problematic Hydric Soils³: 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Depleted Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Mydric Metland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12)	1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Depleted Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Mydric Metland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12)	1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Depleted Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Hydric DROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12)	2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Black Histic (A3)	Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): DEPOLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Vernal Pools (F9) Hydric Hydric Salt Crust (B11) Biotic Crust (B12)	Red Parent Material (TF2) Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Hydric DROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12)	Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): ype: Depth (inches): DROLOGY Vetland Hydrology Indicators: Irimary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Depleted Below Dark Surface (A11)	wetland hydrology must be present, unless disturbed or problematic.
Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Popeth (inches): Hydric Paramarks: DROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12)	wetland hydrology must be present, unless disturbed or problematic.
Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleyed Matrix (S4) Destrictive Layer (if present): Lepth (inches): DROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12)	wetland hydrology must be present, unless disturbed or problematic.
Sandy Gleyed Matrix (S4) lestrictive Layer (if present): ype:	unless disturbed or problematic.
DROLOGY Wetland Hydrology Indicators: rimary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Since Crust (B12)	
DROLOGY Vetland Hydrology Indicators: Irimary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Biotic Crust (B12)	
Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Biotic Crust (B12)	
Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Salt Crust (B11) Biotic Crust (B12)	
Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Biotic Crust (B12)	
Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12)	Secondary Indicators (2 or more required)
High Water Table (A2) Biotic Crust (B12)	Water Marks (B1) (Riverine)
<u> </u>	Sediment Deposits (B2) (Riverine)
Addition (Ab)	Drift Deposits (B2) (Riverine)
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine) X Oxidized Rhizospheres along Living Root	
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6)	
Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9) Other (Explain in Remarks)	FAC-Neutral Test (D5)
	17.0-11cuttuti 1cst (50)
ield Observations: ourface Water Present? Yes No X Depth (inches):	
· · · /	tland Hydrology Present? Yes X No
ncludes capillary fringe)	and Hydrology Frederics 165 X NO
scribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if a	
marka.	available:
marks:	available:
	available:

Project/Site:	Carmenere Estates	5		City/County:	Town of Lo	oomis, Place	er Count	ty	Sam	pling Da	te:	07/19/23
Applicant/Owner:	Building Engineering	ng and Managem	ent, Inc.			:	State: C	CA	Sam	pling Po	int: DP18	}
Investigator(s):	D. Snider			Section	n, Township	, Range: S	Section 8	3,Townshi	p 11 No	rth, Ran	ge 7 East	
Landform (hillslop	e, terrace, etc.):	Hillslope		Local re	elief (concav	e, convex,	none): N	lone			Slope (%):	2-5
Subregion (LRR):	Mediterranean Cali	fornia (LRR C)	Lat:		38.8	1281768	Long:		-121.22	235446	Datum	: NAD83
Soil Map Unit Nan	ne: 106 - Andre	gg coarse sandy	loam, 2 to 9%	slopes		N	WI Class	sification:	None			
Are climatic / hydr	ologic conditions on	the site typical f	or this time of	year?	Yes		No_	Χ	(If no, e	explain ir	Remarks	.)
	, Soil					Are "No	rmal Cir	cumstanc	es" pres	sent?	Yes X	No
Are Vegetation	, Soil	, or Hydrology		naturally pro	blematic?	(If neede	ed, expla	ain any an	swers ir	Remark	(s.)	
SUMMARY OF	FINDINGS - A	ttach site ma _l	p showing	sampling	point loca	ations, tra	ansect	s, impor	tant fe	atures	, etc.	
Hydrophytic Vege	tation Present?	Yes X	No									
Hydric Soil Preser	nt?	Yes X	No		mpled Area Wetland?	a	Yes	X	No			
Wetland Hydrolog	y Present?	Yes X	No	Within	wedana.		_					
Remarks:												
	nuch wetter than nor		ants									
TEGETATION	000 00101111110	manico oi pi				1						
			Absolute % Cover	Dominant Species?	Indicator Status	Dominan						
Tree Stratum	(Plot size:)	70 COVE	Opecies:	Otatus	Number o That Are 0						
1									····		1	_(A)
2						Total Num						
3						Species A	Cross A	ii Strata:	_		1	_(B)
4						Percent of						
			0	=Total Cover	r	That Are (OBL, FA	CW, or FA	\C:	10	0%	_(A/B)
		,										
<u> </u>	Stratum (Plot size: _)				Prevalence			eet:			
1							l % Cove		- , -		oly by:	_
2			-			OBL spec	_	7	_x1 =		7	_
3						FACW spec	_	0 85	x2 = x3 =		0 55	_
5.						FACU spec		8	_x3 x4 =		33 32	_
J			0	=Total Cover		UPL spec			_^ 4 =		0	_
Herh Stratum	(Plot size: 1 mete	or ²)		- rotal Govel	ı	Column T	-	100	(A)		94	(B)
1. Festuca pere		/	80	Х	FAC		_	ex = B/A =				_(D)
2. Mentha pule			2		OBL			<i>5,</i> , <i>5,,</i> ,				_
3. Persicaria hy	-		5		OBL	Hydrophy	tic Vea	etation In	dicators	s:		
4. Digitaria san	 		1		FACU		_	nce Test is				
5. Anthemis co	•		2		FACU			ice Index i				
6. Poa palustris	5		5		FAC		Morpholo	ogical Ada	ntations	1 (Provid	le supporti	na
7. Festuca arur	ndinacea		5		FACU			Remarks o				9
8.						F	Problem	atic Hydro	phytic V	egetatio	n ¹ (Explain	1)
			100	=Total Cover	r							
Woody Vine St	ratum (Plot size: _)				¹ Indicators	s of hydr	ic soil and	l wetland	d hydrold	gy must	
1						be presen	t, unless	disturbed	d or prob	lematic.		
2						Hydrophy	/tic					
			_	=Total Cover	r	Vegetatio						
% Bare Ground	l in Herb Stratum	0	% Cover of	Biotic Crust	0	Present?			Yes _	X	No	
Remarks:												

Depth	Matrix			Redox Featu	ıres					
inches)	Color (moist)	%	Color (mois	t) %	Type ¹	Loc ²	Texture	Э	Rema	arks
)-12	10YR 4/1	90	7.5YR 4/6	10	С	PL	sandy loan	n		
	· -									
	· -									
	· -									
					'					
Type: C=C	concentration, D=Depleti	ion, RM=Red	uced Matrix, CS	=Covered or Co	oated San	d Grains.	² Location: PL=	Pore Lining, M=M	atrix.	
Hydric So	il Indicators: (Appli	cable to all	LRRs, unless	s otherwise n	oted.)		Indicators	for Problemati	c Hydric Soils	s³:
Histo	sol (A1)		San	idy Redox (S5	5)		1 cm	Muck (A9) (LRF	R C)	
Histic	Epipedon (A2)		Stri	pped Matrix (S	36)		2 cm	Muck (A10) (LR	RB)	
Black	Histic (A3)		Loa	my Mucky Mi	neral (F1)	١	Redu	iced Vertic (F18)		
Hydro	ogen Sulfide (A4)		Loa	my Gleyed Ma	atrix (F2)		Red I	Parent Material (TF2)	
Strati	fied Layers (A5) (LRF	R C)	Dep	oleted Matrix (F3)		Other	r (Explain in Ren	narks)	
1 cm	Muck (A9) (LRR D)		Red	lox Dark Surfa	ace (F6)					
Deple	eted Below Dark Surf	ace (A11)	Dep	oleted Dark Su	urface (F7	')				
Thick	Dark Surface (A12)			dox Depressio			3	Indicators of hyd	drophytic veget	tation and
Sand	y Mucky Mineral (S1))	Ver	nal Pools (F9))			wetland hydro		
Sand	y Gleyed Matrix (S4)							unless distu	bed or probler	matic.
estrictive	e Layer (if present):									
уре:			<u> </u>			Ну	rdric Soil Pre	esent?	Yes X	No
Гуре: Depth (incl marks:			<u></u>			Ну	dric Soil Pre	esent?	Yes X	<u> No</u>
ype:	hes):					Ну	rdric Soil Pre	esent?	Yes X	. No
Type: Depth (inclimarks: TOROLOG	hes): Y lydrology Indicators					ну	rdric Soil Pre			
DROLOG Wetland H Primary Inc	hes): Y lydrology Indicators dicators (minimum of					Ну	rdric Soil Pre	Secondary Indic	cators (2 or mo	ore required)
Depth (incl marks: DROLOG Vetland H	hes): Y Nydrology Indicators dicators (minimum of ce Water (A1)		Salt	t Crust (B11)		Ну	rdric Soil Pre	Secondary Indio	cators (2 or mo	ore required)
Depth (incl marks: DROLOG Vetland H Surfa High	hes): Y Nydrology Indicators dicators (minimum of ce Water (A1) Water Table (A2)		Salt	t Crust (B11) tic Crust (B12)			rdric Soil Pre	Secondary Indio Water Mai Sediment	cators (2 or mo rks (B1) (River Deposits (B2)	ore required) rine) (Riverine)
DROLOG Wetland H Surfa High Satur	hes): Ny Nydrology Indicators dicators (minimum of ce Water (A1) Water Table (A2) ation (A3)	one require	Salt Biot Aqu	t Crust (B11) tic Crust (B12) natic Invertebr	ates (B13)	rdric Soil Pre	Secondary Indio Water Mai Sediment Drift Depo	cators (2 or mo rks (B1) (River Deposits (B2) sits (B3) (Rive	ore required) rine) (Riverine)
DROLOG Wetland H Surfa High Satur Wate	hes): Ny Nydrology Indicators dicators (minimum of ice Water (A1) Water Table (A2) ration (A3) r Marks (B1) (Nonriv	one require	Salt Biot Aqu Hyd	t Crust (B11) tic Crust (B12) atic Invertebr Irogen Sulfide	ates (B13 Odor (C))		Secondary India Water Mai Sediment Drift Depo Drainage	cators (2 or morks (B1) (River Deposits (B2) sits (B3) (River Patterns (B10)	ore required) rine) (Riverine) rine)
DROLOG Wetland H Surfa High Satur Wate Sedir	hes): Iy Iydrology Indicators dicators (minimum of Ice Water (A1) Water Table (A2) ration (A3) r Marks (B1) (Nonriv ment Deposits (B2) (N	one require rerine) Nonriverine	Salt Biot Aqu Hyd X Oxide	t Crust (B11) tic Crust (B12) natic Invertebr Irogen Sulfide dized Rhizosp	ates (B13 Odor (Contract)	·) 1) ng Living		Secondary India Water Mar Sediment Drift Depo Drainage	cators (2 or mo rks (B1) (River Deposits (B2) sits (B3) (Rive Patterns (B10) on Water Table	ore required) rine) (Riverine) rine)
DROLOG Wetland H Surfa High Satur Wate Sedir Drift I	hes): Ny Ny Nydrology Indicators dicators (minimum of ce Water (A1) Water Table (A2) ration (A3) r Marks (B1) (Nonriv ment Deposits (B2) (Nonriv Deposits (B3) (Nonriv	one require rerine) Nonriverine	Salt — Salt — Biot — Aqu — Hyd — Y — Y — Pre-	t Crust (B11) tic Crust (B12) atic Invertebr Irogen Sulfide dized Rhizosp sence of Redi	ates (B13 Odor (Conheres alcondered Iron	i) 1) ng Living (C4)	Roots (C3)	Secondary India Water Mar Sediment Drift Depo Drainage I Dry-Seaso Crayfish B	cators (2 or morks (B1) (River Deposits (B2) sits (B3) (Rive Patterns (B10) on Water Table surrows (C8)	ore required) rine) (Riverine) rine)
Depth (incl marks: DROLOG Wetland H Surfa High Satur Wate Sedir Drift I Surfa	hes): Iy Iydrology Indicators dicators (minimum of Ice Water (A1) Water Table (A2) ration (A3) r Marks (B1) (Nonriv Inent Deposits (B2) (Nonriv Ice Soil Cracks (B6)	one require rerine) Nonriverine verine)	Salt Biot Aqu Hyd X Oxi Pre-	t Crust (B11) tic Crust (B12) tatic Invertebr trogen Sulfide dized Rhizosp sence of Reducent Iron Redu	ates (B13 Odor (Conheres alconuced Iron Juction in T	i) 1) ng Living (C4)	Roots (C3)	Secondary India Water Mai Sediment Drift Depo Drainage Dry-Seaso Crayfish E	cators (2 or more rks (B1) (River Deposits (B2) sits (B3) (River Patterns (B10) on Water Tables surrows (C8)	ore required) rine) (Riverine) rine)
Depth (incl marks: DROLOG Wetland H Surfa High Satur Wate Sedir Drift I Surfa Inunc	hes): Ay Industry Indus	one require verine) verine) verine)	Salt Salt	t Crust (B11) tic Crust (B12) tatic Invertebr Irogen Sulfide dized Rhizosp sence of Redi cent Iron Redu n Muck Surface	ates (B13 Odor (Control of the control n) 1) ong Living (C4) iilled Soils	Roots (C3)	Secondary Indic Water Mai Sediment Drift Depo Drainage I Dry-Seaso Crayfish E Saturation Shallow A	cators (2 or morks (B1) (River Deposits (B2) sits (B3) (River Patterns (B10) on Water Table surrows (C8) Visible on Aer quitard (D3)	ore required) rine) (Riverine) rine)	
Depth (incl marks: Depth (incl marks: Depth (incl marks: Depth (incl Depth (incl Surfa High Satur Wate Sedir Drift I Surfa Inunc Wate	hes): Ay Indicators (minimum of oce Water (A1) Water Table (A2) Pation (A3) In Marks (B1) (Nonriver (B1) In Marks (B3) (Nonriver (B3)) In Marks (B4) (Nonriver (B4)) In Marks (B5) (Nonriver (B4)) In Marks (B6) (Nonriver (B6))	one require verine) verine) verine)	Salt Salt	t Crust (B11) tic Crust (B12) tatic Invertebr trogen Sulfide dized Rhizosp sence of Reducent Iron Redu	ates (B13 Odor (Control of the control n) 1) ong Living (C4) iilled Soils	Roots (C3)	Secondary Indic Water Mai Sediment Drift Depo Drainage I Dry-Seaso Crayfish E Saturation Shallow A	cators (2 or more rks (B1) (River Deposits (B2) sits (B3) (River Patterns (B10) on Water Tables surrows (C8)	ore required) rine) (Riverine) rine)	
Depth (incl marks: Depth (incl marks: Depth (incl marks: Depth (incl marks: Sufa High Satur Wate Sedir Drift I Surfa Inunc Wate	hes): Ay Indicators (minimum of oce Water (A1) Water Table (A2) Pation (A3) In Marks (B1) (Nonriver) In Marks (B3) (Nonriver) In Marks (B6) (erine) Nonriverine verine) al Imagery (Salt Biot Aqu Hyd Hyd Pre: Rec B7)	t Crust (B11) tic Crust (B12) tatic Invertebr Irogen Sulfide dized Rhizosp sence of Redi cent Iron Redu n Muck Surfac er (Explain in	ates (B13 Odor (Conteres alcouced Iron Juction in Tote (C7)	n) 1) ong Living (C4) iilled Soils	Roots (C3)	Secondary Indic Water Mai Sediment Drift Depo Drainage I Dry-Seaso Crayfish E Saturation Shallow A	cators (2 or morks (B1) (River Deposits (B2) sits (B3) (River Patterns (B10) on Water Table surrows (C8) Visible on Aer quitard (D3)	ore required) rine) (Riverine) rine)
Depth (incl marks: Depth (incl marks: Depth (incl marks: Depth (incl marks: Depth (incl Metland F Drift of the control of	hes): Ay Industry Indus	erine) Nonriverine verine) al Imagery (Salt Salt	t Crust (B11) tic Crust (B12) tatic Invertebr Irogen Sulfide dized Rhizosp sence of Redi cent Iron Redu n Muck Surfac er (Explain in	ates (B13 Odor (Conheres ald uced Iron uction in Toe (C7) Remarks	ong Living (C4) (C4)	Roots (C3)	Secondary Indic Water Mai Sediment Drift Depo Drainage I Dry-Seaso Crayfish E Saturation Shallow A	cators (2 or morks (B1) (River Deposits (B2) sits (B3) (River Patterns (B10) on Water Table surrows (C8) Visible on Aer quitard (D3)	ore required) rine) (Riverine) rine)
Depth (incl marks: DROLOG Wetland F Primary Inc Surfa High Satur Vate Sedir Drift I Surfa Inunc Wate Field Obs Surface W	hes): Ay Industry Indus	erine) Nonriverine verine) al Imagery (Salt Salt	t Crust (B11) tic Crust (B12) tatic Invertebre trogen Sulfide dized Rhizospesence of Reducent Iron Reducent Muck Surfacer (Explain in the pepth (inches)	ates (B13 c Odor (C c)heres alc uced Iron uction in T ce (C7) Remarks	n) 1) ong Living (C4) Tilled Soils	Roots (C3)	Secondary India Water Mai Sediment Drift Depo Drainage Dry-Seasc Crayfish B Saturation Shallow A FAC-Neut	cators (2 or morks (B1) (River Deposits (B2) sits (B3) (River Patterns (B10) on Water Table surrows (C8) Visible on Aer quitard (D3) ral Test (D5)	ore required) rine) (Riverine) rine) e (C2) rial Imagery (C9
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Applicant/Owner: Building Engineeri Investigator(s): D. Snider			City/County:	Town of Lo	omis, Placer County Sampling I	Date: 07/19/2
Investigator(s): D Spider	ing and Managen	nent, Inc.			State: CA Sampling I	Point: DP19
D. Siliuti			Section	n, Township	Range: Section 8, Township 11 North, Ra	ange 7 East
Landform (hillslope, terrace, etc.):	Hillslope		Local re	lief (concav	e, convex, none): None	Slope (%): 2-5
Subregion (LRR): Mediterranean Ca	lifornia (LRR C)	Lat:	- "	38	.812706 Long: -121.223527	7 Datum: NAD83
Soil Map Unit Name: 106 - Andre	egg coarse sand	y loam, 2 to 9%	slopes		NWI Classification: None	
Are climatic / hydrologic conditions o	n the site typical	for this time of	vear?	Yes	No X (If no, explair	in Remarks.)
Are Vegetation, Soil				_	Are "Normal Circumstances" present?	
Are Vegetation, Soil					(If needed, explain any answers in Rema	
					tions, transects, important feature	,
Hydrophytic Vegetation Present?	Yes	No X				
Hydric Soil Present?	-	No X		mpled Area	Yes No X	
Netland Hydrology Present?		No X	within a	Wetland?	100 NO	·
Remarks:		INO				
Jpland comparison to DP 18. Rain y	ear much wetter t	than normal.				
/EGETATION - Use scientifi	c names of p	ants.				
<u>Tree Stratum</u> (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:	0 (A)
<u>.</u>					Total Number of Dominant	· /
i.					Species Across All Strata:	2 (B)
l.					Percent of Dominant Species	
		0	=Total Cover		That Are OBL, FACW, or FAC:	0% (A/B)
						,
Sapling/Shrub Stratum (Plot size:	,				Prevalence Index Worksheet:	
<u></u> (*						Itiply by:
·					OBL species 0 x1 =	0
···					FACW species 0 x2 =	0
). 		· ·			FAC species 10 x3 =	30
·· <u> </u>					FACU species 80 x4 =	320
o					· — —	
Hard Otastana (Distains 4 assis	2	0	=Total Cover		UPL species 10 x5 =	50
Herb Stratum (Plot size: _1 met	<u>.er_</u>)	40	V	EACH	Column Totals: 100 (A)	400 (B)
. Anthemis cotula		40	X	FACU	Prevalence Index = B/A = 4	.0
. Festuca arundinacea		20	X	FACU		
. Centaurea solstatilis		10		UPL	Hydrophytic Vegetation Indicators:	
F t		10		FAC	Dominance Test is >50%	
		10		FACU	Prevalence Index is ≤3.0 ¹	
5. Digitaria sanguinalis		- 40				
Digitaria sanguinalis Festuca myuros		10		FACU	Morphological Adaptations ¹ (Pro	
Digitaria sanguinalis Festuca myuros		10		FACU	data in Remarks or on a separat	e sheet)
Digitaria sanguinalis Festuca myuros		10		FACU		e sheet)
Digitaria sanguinalis Festuca myuros)		=Total Cover		data in Remarks or on a separat	e sheet) ion ¹ (Explain) blogy must
Digitaria sanguinalis Festuca myuros Woody Vine Stratum (Plot size:)		=Total Cover		data in Remarks or on a separat Problematic Hydrophytic Vegetal Indicators of hydric soil and wetland hydro be present, unless disturbed or problemat	e sheet) ion ¹ (Explain) blogy must
5. Digitaria sanguinalis 5. Festuca myuros 7. 8. Woody Vine Stratum (Plot size:)	100	=Total Cover		data in Remarks or on a separat Problematic Hydrophytic Vegetal Indicators of hydric soil and wetland hydrobe present, unless disturbed or problemat Hydrophytic	e sheet) ion ¹ (Explain) blogy must
4. Festuca perennis 5. Digitaria sanguinalis 6. Festuca myuros 7. 8. Woody Vine Stratum (Plot size:	0	100	=Total Cover		data in Remarks or on a separat Problematic Hydrophytic Vegetal Indicators of hydric soil and wetland hydro be present, unless disturbed or problemat	e sheet) ion ¹ (Explain) blogy must

	Matrix		Re	dox Featu	ıres		_			
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
1-6	10YR 3/2	95	10YR 3/4	5	С	PL	sandy loam			
	. '			,						
Гуре: C=C	oncentration, D=Depletion	n, RM=Redu	uced Matrix, CS=Co	vered or Co	oated Sand	d Grains.	² Location: PL=Por	e Lining, M=Matrix.		
lydric Soi	I Indicators: (Applica	able to all	LRRs, unless oth	nerwise n	oted.)		Indicators fo	r Problematic Hyd	ric Soils³:	
Histos	sol (A1)		Sandy F	Redox (S5	5)		1 cm Mu	ick (A9) (LRR C)		
Histic	Epipedon (A2)		Stripped	d Matrix (S	56)		2 cm Mu	ick (A10) (LRR B)		
Black	Histic (A3)			Mucky Mir	, ,		Reduced	d Vertic (F18)		
Hydro	gen Sulfide (A4)		Loamy	Gleyed Ma	atrix (F2)		Red Par	ent Material (TF2)		
Stratif	fied Layers (A5) (LRR	C)	Deplete	d Matrix (F3)		Other (E	xplain in Remarks)		
1 cm	Muck (A9) (LRR D)		Redox [Dark Surfa	ace (F6)					
Deple	ted Below Dark Surfac	ce (A11)		d Dark Տւ	•	7)				
Thick	Dark Surface (A12)			Depressio	. ,		³ Ind	icators of hydrophy	tic vegetation	n and
Sand	y Mucky Mineral (S1)		Vernal F	Pools (F9))			etland hydrology m		
Sand	y Gleyed Matrix (S4)							unless disturbed o	r problematic	
estrictive	Layer (if present):									
уре:										
epth (inch	nes):					Ну	dric Soil Prese	nt? Y	es	No
marks: Sn	ovel refusal at 6 inche	·5.								
marks: Sn	over rerusar at o iliche:	·5.				·				
marks: Sn	over refusar at 6 more:	is.				·				
DROLOG	Y									
DROLOG Vetland H	Y ydrology Indicators:									
DROLOG Vetland H Primary Inc	Y ydrology Indicators: dicators (minimum of o		•				Se	condary Indicators		equired)
DROLOG Vetland H Primary Inc	Y ydrology Indicators: dicators (minimum of o ce Water (A1)		Salt Cru	ıst (B11)			Se	Water Marks (B	1) (Riverine)	
DROLOG Vetland H Primary Inc Surfa	Y ydrology Indicators: ticators (minimum of o ce Water (A1) Water Table (A2)		Salt Cru Biotic C	ıst (B11) rust (B12)			<u>Se</u>	Water Marks (B' Sediment Depos	1) (Riverine) sits (B2) (Rive	erine)
DROLOG Vetland H Primary Inc Surfar High	y ydrology Indicators: dicators (minimum of o ce Water (A1) Water Table (A2) ation (A3)	one require	Salt Cru Biotic C Aquatic	rust (B11) rust (B12) Invertebra	ates (B13	•		Water Marks (B' Sediment Depos Drift Deposits (B	1) (Riverine) sits (B2) (Rive 3) (Riverine)	erine)
DROLOG Vetland H Vrimary Inc Surfa High Satur Watel	ydrology Indicators: dicators (minimum of o ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrive	one required	Salt Cru Biotic C Aquatic Hydroge	ust (B11) rust (B12) Invertebra en Sulfide	ates (B13 Odor (C	1)		Water Marks (B' Sediment Depos Drift Deposits (B Drainage Pattern	1) (Riverine) sits (B2) (Rive 3) (Riverine) ns (B10)	erine)
DROLOG Vetland H Primary Inc Surfa High Satura Watee	ydrology Indicators: dicators (minimum of of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrivenent Deposits (B2) (No	one required rine) porriverine)	Salt Cru Biotic C Aquatic Hydroge X Oxidizer	ust (B11) rust (B12) Invertebra en Sulfide d Rhizosp	ates (B13 Odor (C oheres alc	1) ong Living	Se	Water Marks (B' Sediment Depos Drift Deposits (B Drainage Pattern Dry-Season Wat	1) (Riverine) sits (B2) (Rive 3) (Riverine) ns (B10) ter Table (C2	erine)
DROLOG Vetland H Primary Inc Surfac High V Satura Watel Sedin Drift E	y ydrology Indicators: dicators (minimum of of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrivenent Deposits (B2) (NoDeposits (B3) (Nonrive	one required rine) porriverine)	Salt Cru Biotic C Aquatic Hydroge X Oxidizer Presence	ust (B11) rust (B12) Invertebra en Sulfide d Rhizosp ce of Redu	ates (B13 Odor (C heres ald uced Iron	1) ong Living (C4)	Roots (C3)	Water Marks (B' Sediment Depos Drift Deposits (B Drainage Pattern Dry-Season Wat Crayfish Burrow	1) (Riverine) sits (B2) (Rive 3) (Riverine) as (B10) ter Table (C2 s (C8)	erine)
DROLOG Vetland H Primary Inc Surfac High V Satura Water Sedin Drift E Surfac	y ydrology Indicators: dicators (minimum of of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrive) ment Deposits (B2) (No Deposits (B3) (Nonrive) ce Soil Cracks (B6)	one required rine) onriverine) erine)	Salt Cru Biotic C Aquatic Hydroge X Oxidizer Presenc	ust (B11) rust (B12) Invertebra en Sulfide d Rhizosp ce of Redu Iron Redu	ates (B13 Odor (C heres alc uced Iron uction in T	1) ong Living (C4)	Roots (C3)	Water Marks (B' Sediment Depos Drift Deposits (B Drainage Pattern Dry-Season Wa' Crayfish Burrow Saturation Visibl	1) (Riverine) sits (B2) (Rive 3) (Riverine) ns (B10) ter Table (C2 s (C8) e on Aerial In	erine)
DROLOG Vetland H Primary Inc Surfa High V Satura Water Sedin Drift E Surfa	y ydrology Indicators: dicators (minimum of of of of of of of of of of of of of	one required rine) conriverine) erine)	Salt Cru	ust (B11) rust (B12) Invertebra en Sulfide d Rhizosp ce of Redu Iron Redu uck Surfac	ates (B13 Odor (C' heres ald uced Iron uction in T ce (C7)	ng Living (C4) Tilled Soils	Roots (C3)	Water Marks (B' Sediment Deposits (B Drift Deposits (B Drainage Pattern Dry-Season Water Crayfish Burrow Saturation Visibl Shallow Aquitaro	I) (Riverine) iits (B2) (Rive 3) (Riverine) ns (B10) ter Table (C2 s (C8) e on Aerial In i (D3)	erine)
DROLOG Vetland H Primary Inc Surfa High V Satura Water Sedin Drift E Surfac Inund Water	y ydrology Indicators: dicators (minimum of o ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrive ment Deposits (B2) (No Deposits (B3) (Nonrive ce Soil Cracks (B6) ation Visible on Aerial r-Stained Leaves (B9)	one required rine) conriverine) erine)	Salt Cru	ust (B11) rust (B12) Invertebra en Sulfide d Rhizosp ce of Redu Iron Redu	ates (B13 Odor (C' heres ald uced Iron uction in T ce (C7)	ng Living (C4) Tilled Soils	Roots (C3)	Water Marks (B' Sediment Depos Drift Deposits (B Drainage Pattern Dry-Season Wa' Crayfish Burrow Saturation Visibl	I) (Riverine) iits (B2) (Rive 3) (Riverine) ns (B10) ter Table (C2 s (C8) e on Aerial In i (D3)	erine)
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DROLOG Vetland H Primary Inc Surfac High V Satura Sedin Drift E Surfac Inund Water Field Obse Surface Water	y ydrology Indicators: dicators (minimum of of of other centre) water Table (A2) ation (A3) or Marks (B1) (Nonriver) ment Deposits (B2) (Nonriver) ce Soil Cracks (B6) ation Visible on Aerial r-Stained Leaves (B9) ervations: ater Present?	one required prine) ponriverine) lmagery (E	Salt Cru	ust (B11) rust (B12) Invertebra en Sulfide d Rhizosp de of Redu Iron Redu uck Surfac Explain in	ates (B13 Odor (C oheres alc uced Iron uction in T ce (C7) Remarks) ong Living (C4) Tilled Soils	Roots (C3)	Water Marks (B' Sediment Deposits (B Drift Deposits (B Drainage Pattern Dry-Season Water Crayfish Burrow Saturation Visibl Shallow Aquitaro	I) (Riverine) iits (B2) (Rive 3) (Riverine) ns (B10) ter Table (C2 s (C8) e on Aerial In i (D3)	erine)
DROLOG Vetland H Primary Inc Surfac High V Satura Sedin Drift E Surfac Inund Water Field Obse Vater Tabl	y ydrology Indicators: dicators (minimum of of of other centre) water Table (A2) ation (A3) or Marks (B1) (Nonriver) ment Deposits (B2) (Nonriver) ce Soil Cracks (B6) ation Visible on Aerial r-Stained Leaves (B9) ervations: ater Present? yes	one required prine) ponriverine) Imagery (E	Salt Cru	ust (B11) rust (B12) Invertebra en Sulfide d Rhizosp ce of Redu lron Redu lick Surfac explain in n (inches)	ates (B13 Odor (C oheres alc uced Iron uction in T ee (C7) Remarks) ong Living (C4) Tilled Soils	Roots (C3)	Water Marks (B' Sediment Deposits (B Drainage Pattern Dry-Season Water Crayfish Burrown Saturation Visible Shallow Aquitard FAC-Neutral Test	I) (Riverine) (its (B2) (Rive 3) (Riverine) (its (B1)) (its (B10)) (iter Table (C2) (its (C8)) (its (C8)) (its (D3)) (its (D5))	erine)) nagery (C9
DROLOG Vetland H Primary Inc Surfac High V Satura Sedin Drift E Surfac Inund Water Field Obse Surface Water Tabl Saturation	y ydrology Indicators: dicators (minimum of of oce Water (A1) Water Table (A2) ation (A3) or Marks (B1) (Nonriver) ment Deposits (B2) (Nonriver) ce Soil Cracks (B6) ation Visible on Aerial r-Stained Leaves (B9) ervations: ater Present? Yes Present? Yes Present? Yes	one required prine) ponriverine) Imagery (E	Salt Cru	ust (B11) rust (B12) Invertebra en Sulfide d Rhizosp de of Redu Iron Redu uck Surfac Explain in	ates (B13 Odor (C oheres alc uced Iron uction in T ee (C7) Remarks) ong Living (C4) Tilled Soils	Roots (C3)	Water Marks (B' Sediment Deposits (B Drift Deposits (B Drainage Pattern Dry-Season Water Crayfish Burrow Saturation Visibl Shallow Aquitaro	I) (Riverine) (its (B2) (Rive 3) (Riverine) (its (B1)) (its (B10)) (iter Table (C2) (its (C8)) (its (C8)) (its (D3)) (its (D5))	erine)) nagery (C9
DROLOG Vetland H Primary Inc Surfac High V Satura Water Sedin Drift E Surfac Inund Water Field Obse Surface Wa Vater Tabl Saturation includes c	y ydrology Indicators: dicators (minimum of of oce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrive ment Deposits (B2) (No Deposits (B3) (Nonrive ce Soil Cracks (B6) ation Visible on Aerial r-Stained Leaves (B9) ervations: ater Present? Yes Present? Yes apillary fringe)	one required prine) conriverine) lmagery (E	Salt Cru	ust (B11) rust (B12) Invertebra en Sulfide d Rhizosp de of Redu Iron Redu uck Surfac Explain in in (inches) in (inches)	ates (B13acates) detection (C'oberes) alcuced Iron action in Tee (C7) Remarks	1) nng Living (C4) Tilled Soils	Roots (C3)	Water Marks (B' Sediment Deposits (B Drainage Pattern Dry-Season Water Crayfish Burrown Saturation Visible Shallow Aquitard FAC-Neutral Test	I) (Riverine) (its (B2) (Rive 3) (Riverine) (its (B1)) (its (B10)) (iter Table (C2) (its (C8)) (its (C8)) (its (D3)) (its (D5))	erine)) nagery (C9
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DROLOG Vetland H Primary Inc Surfac High V Satura Water Sedin Drift E Surfac Inund Water Field Obse Surface Wa Vater Tabl Saturation includes c	y ydrology Indicators: dicators (minimum of of oce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrive ment Deposits (B2) (No Deposits (B3) (Nonrive ce Soil Cracks (B6) ation Visible on Aerial r-Stained Leaves (B9) ervations: ater Present? Yes Present? Yes apillary fringe)	one required prine) conriverine) lmagery (E	Salt Cru	ust (B11) rust (B12) Invertebra en Sulfide d Rhizosp de of Redu Iron Redu uck Surfac Explain in in (inches) in (inches)	ates (B13acates) detection (C'oberes) alcuced Iron action in Tee (C7) Remarks	1) nng Living (C4) Tilled Soils	Roots (C3)	Water Marks (B' Sediment Deposits (B Drainage Pattern Dry-Season Water Crayfish Burrown Saturation Visible Shallow Aquitard FAC-Neutral Test	I) (Riverine) (its (B2) (Rive 3) (Riverine) (its (B1)) (its (B10)) (iter Table (C2) (its (C8)) (its (C8)) (its (D3)) (its (D5))	erine)
DROLOG Vetland H Primary Inc Surfac High V Satura Water Sedin Drift E Surfac Inund Water Field Obse Surface Water Table Saturation includes coscribe Rec	y ydrology Indicators: dicators (minimum of of oce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrive ment Deposits (B2) (No Deposits (B3) (Nonrive ce Soil Cracks (B6) ation Visible on Aerial r-Stained Leaves (B9) ervations: ater Present? Yes Present? Yes apillary fringe)	one required prine) conriverine) lmagery (E	Salt Cru	ust (B11) rust (B12) Invertebra en Sulfide d Rhizosp de of Redu Iron Redu uck Surfac Explain in in (inches) in (inches)	ates (B13acates) detection (C'oberes) alcuced Iron action in Tee (C7) Remarks	1) nng Living (C4) Tilled Soils	Roots (C3)	Water Marks (B' Sediment Deposits (B Drainage Pattern Dry-Season Water Crayfish Burrown Saturation Visible Shallow Aquitard FAC-Neutral Test	I) (Riverine) (its (B2) (Rive 3) (Riverine) (its (B1)) (its (B10)) (iter Table (C2) (its (C8)) (its (C8)) (its (D3)) (its (D5))	erine)) nagery (C9
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agement, Inc.			State:	CA	Samı	oling Poi	nt: <u>DF</u>	P20
	Section, To	ัownship, Ran	ge: Section	8,Townshi	p 11 Nor	th, Rang	e 7 Eas	st
	Local relief	(concave, con	vex, none):	None		S	lope (%	6): 2 - 5
R C) Lat:	_	38.81315	14 Long:		-121.22	37943	Dati	um: NAD83
sandy loam, 2 to 9%	6 slopes		NWI Cla	ssification:		<u>.</u>		
oical for this time of	vear?	Yes	— No	Х	(If no. e	xplain in	Remar	rks.)
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No. Y								
			Yes		No	Y		
	within a We	etland?	100		- '''_			
<u> </u>								
	n normal.							
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Absolute % Cover		atus Num	ber of Dom	nant Specie	es	0	ı	(A)
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0	=Total Cover					09	%	(A/B)
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	-Total Cover	OBL FAC FAC	Total % Co species W species species U species	ver of: 0 10 5 70	x1 = x2 = x3 = x4 =	Multip 0 20 1:	0 5 60	
	=Total Cover	OBL FAC FAC UPL	Total % Co species W species species U species species	ver of: 0 10 5 70	x1 = x2 = x3 = x4 = x5 =	Multip 0 20 1: 28	0 5 60	——————————————————————————————————————
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	sandy loam, 2 to 9% pical for this time of ology ology map showing No X X No X No ar much wetter than of plants. Absolute % Cover	RC) Lat: sandy loam, 2 to 9% slopes pical for this time of year? ploogy significantly dis naturally proble se map showing sampling points No X Is the Samp within a Western than normal. Of plants. Absolute Dominant Inc. % Cover Species? St.	RC) Lat: 38.81315 sandy loam, 2 to 9% slopes pical for this time of year? Yes ploogy significantly disturbed? Ar naturally problematic? (If the map showing sampling point locations No X Is the Sampled Area within a Wetland? Absolute Dominant Indicator Num That Tota Species? Status Percentage of Percentage of Status Perce	RC) Lat: 38.8131514 Long: sandy loam, 2 to 9% slopes NWI Cla pical for this time of year? Yes No lology significantly disturbed? Are "Normal Cology naturally problematic? (If needed, experiments) within a Wetland? Yes No long No X Is the Sampled Area within a Wetland? Yes within a Wetland? Yes Absolute Dominant Indicator Species? Status Number of Dominant That Are OBL, For Total Number of Species Across Percent of Dominant Species Across Percent Of Dominant Species A	RC) Lat: 38.8131514 Long: sandy loam, 2 to 9% slopes NWI Classification: pical for this time of year? Yes No X ploogy significantly disturbed? Are "Normal Circumstance ology naturally problematic? (If needed, explain any and any any any any any any any any any any	RC) Lat: 38.8131514 Long: -121.22 sandy loam, 2 to 9% slopes NWI Classification: pical for this time of year? Yes No X (If no, et ology significantly disturbed? Are "Normal Circumstances" presuppose of the map showing sampling point locations, transects, important feets No X No X Is the Sampled Area within a Wetland? Yes No No X No No X Is the Sampled Area within a Wetland? Yes No No X No No X No No No No No No No No No No No No No	RC) Lat: 38.8131514 Long: -121.2237943 sandy loam, 2 to 9% slopes NWI Classification: pical for this time of year? Yes No X (If no, explain in ology significantly disturbed? Are "Normal Circumstances" present? Yes amap showing sampling point locations, transects, important features, important features, No X Is the Sampled Area within a Wetland? Yes No X No X No X No X No X No X No X No	Acc) Lat: 38.8131514 Long: -121.2237943 Date sandy loam, 2 to 9% slopes NWI Classification: Dical for this time of year? Yes No X (If no, explain in Remain pology significantly disturbed? Are "Normal Circumstances" present? Yes ology naturally problematic? (If needed, explain any answers in Remarks.) Paramap showing sampling point locations, transects, important features, etc.

nches)	Color (moist)	<u>%</u>	Color (r	noist)	%	Type ¹	Loc ²	Textur	e		Remark	S
-6	10YR 4/2	95	7.5YR 4/6	5	5	С	M	sandy loa	<u>m</u>			
	-							_				
								_				
								_				
ype: C=Co	oncentration, D=Depletion	n, RM=Red	duced Matrix	c, CS=Cove	red or Co	oated Sand	Grains.	² Location: PL:	=Pore Linir	ng, M=Matrix.		
ydric Soil	Indicators: (Application	able to al	I LRRs, ur	nless othe	rwise n	noted.)		Indicators	s for Pro	blematic Hyd	Iric Soils ³ :	
_ Histos	ol (A1)			Sandy Re				1 cm	n Muck (A	9) (LRR C)		
_	Epipedon (A2)			Stripped I						10) (LRR B)		
	Histic (A3)			Loamy M	-	, ,			uced Vert			
	gen Sulfide (A4)			Loamy G	-					aterial (TF2)		
_	ied Layers (A5) (LRR	C)		Depleted				Othe	er (Explair	n in Remarks))	
_	Muck (A9) (LRR D)	oo (A44)		Redox Da		, ,	7 \					
	ted Below Dark Surface	ce (A11)		Depleted			')					
_	Dark Surface (A12) Mucky Mineral (S1)			Redox De Vernal Po	•	` '				s of hydrophy		
_ ′	Gleyed Matrix (S4)			vemaire	iois (i <i>a)</i>)				d hydrology n ss disturbed o	•	
estrictive	Layer (if present):											
estrictive pe:							н	vdric Soil Pr	esent?	Y	′es X	No
estrictive pe: epth (inch							н	ydric Soil Pr	esent?	Y	es X	No
estrictive pe: ppth (inch parks:	es):						н	ydric Soil Pr	esent?	Y	res X	No
estrictive rpe: epth (inch narks:	es):						н	ydric Soil Pr	esent?	Y	res X	No
estrictive per per per per per per per p	es): Y ydrology Indicators:						н	ydric Soil Pr				
estrictive vpe: epth (inch narks: eROLOG) etland Hy imary Ind	es): Y ydrology Indicators: icators (minimum of o	ne require	ed; check a				н	ydric Soil Pr	Seconda	ary Indicators	(2 or more	required)
epth (inch larks:	es): y drology Indicators: icators (minimum of o	ne require	ed; check a	Salt Crus	t (B11))	н	ydric Soil Pr	Second:	ary Indicators ater Marks (B	(2 or more	required)
pe:pth (inch arks: ROLOG) etland Hy imary Ind Surfac High V	es): / ydrology Indicators: icators (minimum of o ce Water (A1) Vater Table (A2)	ne require	ed; check a	Salt Crus Biotic Cru	t (B11) st (B12)	•		ydric Soil Pr	Seconda Wa	ary Indicators ater Marks (B diment Depo	(2 or more 1) (Riverin sits (B2) (R	required) e) iverine)
ROLOG) etland Hy imary Ind Surfac High V Satura	es): y ydrology Indicators: icators (minimum of o ce Water (A1) Vater Table (A2) ation (A3)	·	ed; check a	Salt Crus Biotic Cru Aquatic Ir	t (B11) st (B12) overtebra	ates (B13)	ydric Soil Pr	Seconda Wa Se	ary Indicators ater Marks (B diment Depo ift Deposits (B	(2 or more 1) (Riverin sits (B2) (R 33) (Riverin	required) e) iverine)
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ROLOGY etland Hy imary Ind Surfac High V Satura Water Sedim Drift D Surfac Inunda	y ydrology Indicators: icators (minimum of o be Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonrive ient Deposits (B2) (No ienes Soil Cracks (B6)	rine) onriverine erine) Imagery (Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir	t (B11) st (B12) overtebra Sulfide Rhizosp of Redu on Redu k Surfac	e Odor (C' oheres alc uced Iron uction in T	i) 1) ong Living (C4) iilled Soil	g Roots (C3)	Seconda Was Seconda Dr. Dr. Cr. Sa Sh	ary Indicators ater Marks (B diment Depo ift Deposits (E ainage Patter y-Season Wa ayfish Burrow turation Visib	(2 or more 1) (Rivering 33) (Rivering 33) (Rivering 15 (B10) 16 (C8) 16 (C8) 17 (C8) 18 (D3)	required) e) iverine) ie)
pestrictive pestrictive pepth (inch parks: procedure procedur	ydrology Indicators: icators (minimum of of othe Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonrive tent Deposits (B2) (Nonrive tent Deposits (B3) (Nonrive tent Deposits (B6) ation Visible on Aerial -Stained Leaves (B9)	rine) onriverine erine) Imagery (Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ird Thin Muc	t (B11) st (B12) overtebra Sulfide Rhizosp of Redu on Redu k Surfac	e Odor (C' oheres alc uced Iron uction in T	i) 1) ong Living (C4) iilled Soil	g Roots (C3)	Seconda Was Seconda Dr. Dr. Cr. Sa Sh	ary Indicators ater Marks (B diment Depo iff Deposits (E ainage Patter y-Season Wa ayfish Burrow turation Visib allow Aquitar	(2 or more 1) (Rivering 33) (Rivering 33) (Rivering 15 (B10) 16 (C8) 16 (C8) 17 (C8) 18 (D3)	required) e) iverine) ie)
pestrictive pestrictive pepth (inch narks: properties propert	ydrology Indicators: icators (minimum of of othe Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonrive tent Deposits (B2) (Nonrive tent Deposits (B3) (Nonrive tent Deposits (B6) ation Visible on Aerial -Stained Leaves (B9)	rine) onriverine erine) Imagery (Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent In Thin Muc Other (Ex	t (B11) st (B12) overtebra Sulfide Rhizosp of Redu on Redu k Surfac	ates (B13 c Odor (C' oheres alc uced Iron uction in T ce (C7) Remarks	i) 1) ong Living (C4) iilled Soil	g Roots (C3)	Seconda Was Seconda Dr. Dr. Cr. Sa Sh	ary Indicators ater Marks (B diment Depo iff Deposits (E ainage Patter y-Season Wa ayfish Burrow turation Visib allow Aquitar	(2 or more 1) (Rivering 33) (Rivering 33) (Rivering 15 (B10) 16 (C8) 16 (C8) 17 (C8) 18 (D3)	required) e) iverine) ie)
pestrictive pestrictive pepth (inch narks:	ydrology Indicators: icators (minimum of or ice Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonrive itent Deposits (B2) (Norive itent Deposits (B3) (Norrive itent Deposits (B6) itent Cracks (B6) ation Visible on Aerial -Stained Leaves (B9) rvations:	rine) onriverine erine) Imagery (Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ire Thin Muc Other (Ex	t (B11) st (B12) vertebra Sulfide Rhizosp of Redu on Redu k Surfac plain in	ates (B13 c Odor (C' oheres alc uced Iron uction in T ce (C7) Remarks	o) 1) ong Living (C4) Tilled Soil	g Roots (C3)	Seconda Was Seconda Dr. Dr. Cr. Sa Sh	ary Indicators ater Marks (B diment Depo iff Deposits (E ainage Patter y-Season Wa ayfish Burrow turation Visib allow Aquitar	(2 or more 1) (Rivering 33) (Rivering 33) (Rivering 15 (B10) 16 (C8) 16 (C8) 17 (C8) 18 (D3)	required) e) iverine) ie)
pestrictive //pe:epth (inch narks: DROLOGY (etland Hy imary Ind Surfac High V Satura Water Sedim Drift D Surfac Inunda Water eld Obse urface Wa ater Table aturation F	ydrology Indicators: icators (minimum of or ice Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonrive itent Deposits (B2) (Norive itent Deposits (B3) (Nonrive itent Deposits (B6) itent Cracks (B6) ation Visible on Aerial -Stained Leaves (B9) rvations: ater Present? Yes Present? Yes	rine) onriverine erine) Imagery ((B7) X	Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ire Thin Muc Other (Ex	t (B11) st (B12) vertebra Sulfide Rhizosp of Redu on Redu k Surfac plain in inches)	ates (B13 e Odor (C2 oheres alc uced Iron uction in Toe (C7) Remarks	o) 1) ong Living (C4) Tilled Soil	g Roots (C3)	Second: Was Second: Dr. Dr. Cr. Sacond: Sh.	ary Indicators ater Marks (B diment Depo ift Deposits (E ainage Patter y-Season Wa ayfish Burrow turation Visib allow Aquitar C-Neutral Te	(2 or more 1) (Rivering sits (B2) (R 33) (Rivering ns (B10) ther Table (C ss (C8) le on Aerial d (D3) st (D5)	required) e) iverine) ie)
pestrictive pestrictive per (pestrictive) per (p	ydrology Indicators: icators (minimum of o ice Water (A1) Vater Table (A2) ation (A3) Marks (B1) (Nonrive ice Soil Cracks (B6) ation Visible on Aerial -Stained Leaves (B9) rvations: ater Present? Present? Yes apillary fringe)	rine) onriverine erine) Imagery ((B7)	Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent In Thin Muc Other (Ex Depth (Depth (t (B11) st (B12) svertebra Sulfide Rhizosp of Redu on Redu k Surfac plain in inches) inches)	ates (B13ac) de Odor (C' obheres alc uced Iron uction in T ce (C7) Remarks	ong Living (C4) iilled Soil	g Roots (C3) s (C6) Wetland H	Seconda Was Seconda Dr. Dr. Cr. Saconda Sh. FA	ary Indicators ater Marks (B diment Depo ift Deposits (E ainage Patter y-Season Wa ayfish Burrow turation Visib allow Aquitar C-Neutral Te	(2 or more 1) (Rivering sits (B2) (R 33) (Rivering ns (B10) ther Table (C ss (C8) le on Aerial d (D3) st (D5)	required) e) iverine) ie) C2) Imagery (CS
pestrictive ype: epth (inch narks: DROLOGY /etland Hy rimary Ind Surface High V Satura Water Sedim Drift D Surface Inunda Water ield Obse urface Wa //ater Table aturation F nocludes ca cribe Rec	ydrology Indicators: icators (minimum of or ice Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonrive itent Deposits (B2) (Norive itent Deposits (B3) (Nonrive itent Deposits (B6) itent Cracks (B6) ation Visible on Aerial -Stained Leaves (B9) rvations: ater Present? Yes Present? Yes	rine) onriverine erine) Imagery ((B7)	Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent In Thin Muc Other (Ex Depth (Depth (t (B11) st (B12) svertebra Sulfide Rhizosp of Redu on Redu k Surfac plain in inches) inches)	ates (B13ac) de Odor (C' obheres alc uced Iron uction in T ce (C7) Remarks	ong Living (C4) iilled Soil	g Roots (C3) s (C6) Wetland H	Seconda Was Seconda Dr. Dr. Cr. Saconda Sh. FA	ary Indicators ater Marks (B diment Depo ift Deposits (E ainage Patter y-Season Wa ayfish Burrow turation Visib allow Aquitar C-Neutral Te	(2 or more 1) (Rivering sits (B2) (R 33) (Rivering ns (B10) ther Table (C ss (C8) le on Aerial d (D3) st (D5)	required) e) iverine) ie) C2) Imagery (CS
pestrictive pestrictive per (pestrictive) per (p	ydrology Indicators: icators (minimum of o ice Water (A1) Vater Table (A2) ation (A3) Marks (B1) (Nonrive ice Soil Cracks (B6) ation Visible on Aerial -Stained Leaves (B9) rvations: ater Present? Present? Yes apillary fringe)	rine) onriverine erine) Imagery ((B7)	Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent In Thin Muc Other (Ex Depth (Depth (t (B11) st (B12) svertebra Sulfide Rhizosp of Redu on Redu k Surfac plain in inches) inches)	ates (B13ac) de Odor (C' obheres alc uced Iron uction in T ce (C7) Remarks	ong Living (C4) iilled Soil	g Roots (C3) s (C6) Wetland H	Seconda Was Seconda Dr. Dr. Cr. Saconda Sh. FA	ary Indicators ater Marks (B diment Depo ift Deposits (E ainage Patter y-Season Wa ayfish Burrow turation Visib allow Aquitar C-Neutral Te	(2 or more 1) (Rivering sits (B2) (R 33) (Rivering ns (B10) ther Table (C ss (C8) le on Aerial d (D3) st (D5)	required) e) iverine) ie) C2) Imagery (CS

Project/Site:	Carmenere Estates	3		City/County:	Town of Lo	omis, Placer	County	Samr	oling Date:	10/17/18
•	Mima Capital, LLC.			, , ,			ate: CA		oling Point: D	
	Matt Shaffer			Section	Township		ate: S8, T11N, F	_	g · <u>-</u>	<u> </u>
Landform (hillslop	-	terrace		_	-	_	one): concave		Slone	(%): <2
` .	Mediterranean Cali		Lat:	_			ong:	-121.21		atum: NAD 83
Soil Map Unit Nan		egg coarse sandy			30.0		/I Classification:		<u> +2735</u> Da	Italii. IVAD 03
•		••		•	Vaa				unlain in Dam	ante)
	ologic conditions on						No	_	xplain in Rema	
	, Soil						mal Circumstand			_XNo
Are Vegetation	, Soil	, or Hydrology	-	naturally pro	blematic?	(If needed	d, explain any an	swers in	Remarks.)	
SUMMARY OF	FINDINGS - A	ttach site mar	showing	sampling p	point loca	itions, trar	nsects, impoi	rtant fea	atures, etc.	
Hydrophytic Veget	tation Present?	Yes	No X							
Hydric Soil Preser		Yes N			mpled Area	1,	Yes	No	Х	
Wetland Hydrolog		Yes N		within a	Wetland?					
	n dominated depress									
VEGETATION	– Use scientific	c names of pla	ants.							
			Absolute	Dominant	Indicator	Dominance	Test workshee	ot·		
				Species?	Status					
<u>Tree Stratum</u>	(Plot size:)	70 00 (0)	———			Dominant Specie BL, FACW, or FA			
1						mat Aic Ot	BE, 1 AOVV, 01 17	···· —	0	(A)
2							er of Dominant			
3						Species Aci	ross All Strata:	_	1	(B)
4							Dominant Specie			
			0	=Total Cover		That Are Of	BL, FACW, or FA	√ C:	0%	(A/B)
Sapling/Shrub S	Stratum (Plot size: _)				Prevalence	Index Worksh	eet:		
1.						Total 9	% Cover of:	_	Multiply by:	
2.			<u> </u>			OBL specie	s 0	x1 =	0	
3.						FACW spec	cies 0	x2 =	0	
4.						FAC specie	s 0	x3 =	0	
5.						FACU spec		x4 =	172	
			0	=Total Cover		UPL specie	s 2	x5 =	10	
Herb Stratum	(Plot size:1 met	ter ²)				Column Tot		(A)	182	(B)
1. Erodium boti		/	40	Υ	FACU		ce Index = B/A =	- ' '	4.0	(-/
2. Centromadia	•		1		FACU	1 10141011	oo maax Birt	-	-1.0	
3. Bromus hora			2		UPL	Hydronhyti	ic Vegetation In	dicators		
4. Festuca pere					FAC		ominance Test is			
5. Trifolium hirt			'		UPL		evalence Index			
6. Cynodon dad			2		FACU				1	
	Stylon				FACU		orphological Ada			porting
7							ita in Remarks o		. ,	
8						Pr	oblematic Hydro	phytic Ve	getation' (Exp	plain)
			45	=Total Cover	•					
Woody Vine St	ratum (Plot size:)					of hydric soil and			ıst
1						be present,	unless disturbed	l or probl	ematic.	
2						Hydrophyti	ic			
			0	=Total Cover	•	Vegetation				
% Bare Ground	l in Herb Stratum	55	% Cover of	Biotic Crust _	0	Present?		Yes	No_	X
Remarks:				_						
. terriarite										

Depth Matrix inches) Color (moist) %	Color (moist) % Type	¹ Loc ² Texture	Remarks
-3 10YR 3/3 100		loamy sand	
		_	
		_	<u> </u>
			
Type: C=Concentration, D=Depletion, RM=Red	duced Matrix, CS=Covered or Coated S	Sand Grains. ² Location: PL	=Pore Lining, M=Matrix.
ydric Soil Indicators: (Applicable to all	LRRs, unless otherwise noted.)	Indicators	for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	1 cm l	Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S6)		Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F	· —	ced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix(F	· —	Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)		(Explain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6		
Depleted Below Dark Surface (A11)	Depleted Dark Surface (•	
Thick Dark Surface (A12)	Redox Depressions (F8)) ³ I	ndicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools (F9)		wetland hydrology must be present,
Sandy Gleyed Matrix (S4)			unless disturbed or problematic.
estrictive Layer (if present):			
ype: bedrock			
′' ————	3	Hydric Soil Pre	sent? Yes No
Depth (inches):	3	Hydric Soil Pre	sent? Yes No
epth (inches):	3	Hydric Soil Pre	sent? Yes No
narks:	3	Hydric Soil Pre	sent? Yes No
pepth (inches):	3	Hydric Soil Pre	sent? Yes No
DROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one require	d; check all that apply)		Secondary Indicators (2 or more required)
DROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1)	d; check all that apply) Salt Crust (B11)		Secondary Indicators (2 or more required) Water Marks (B1) (Riverine)
DROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2)	d; check all that apply) Salt Crust (B11) Biotic Crust (B12)		Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
DROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3)	d; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B	13)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
DROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	d; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B Hydrogen Sulfide Odor (13) (C1)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
DROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine	d; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B Hydrogen Sulfide Odor (13) (C1) along Living Roots (C3)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
DROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	d; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B Hydrogen Sulfide Odor () Oxidized Rhizospheres a Presence of Reduced Inc.	13) (C1) along Living Roots (C3) on (C4)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
DROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6)	d; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B Hydrogen Sulfide Odor () Oxidized Rhizospheres a Presence of Reduced Iro	13) (C1) along Living Roots (C3) on (C4) n Tilled Soils (C6)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C
DROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (I	d; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B Hydrogen Sulfide Odor () Oxidized Rhizospheres a Presence of Reduced Iro Recent Iron Reduction ir	13) (C1) along Living Roots (C3) on (C4) n Tilled Soils (C6)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3)
DROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (I	d; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B Hydrogen Sulfide Odor () Oxidized Rhizospheres a Presence of Reduced Iro	13) (C1) along Living Roots (C3) on (C4) n Tilled Soils (C6)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C
DROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Inundation Visible on Aerial Ima	d; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B Hydrogen Sulfide Odor (Oxidized Rhizospheres a Presence of Reduced Iro Recent Iron Reduction ir B7) Thin Muck Surface (C7) Other (Explain in Remar	13) (C1) along Living Roots (C3) on (C4) n Tilled Soils (C6)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3)
DROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (I Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes	d; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B Hydrogen Sulfide Odor (Oxidized Rhizospheres a Presence of Reduced Iro Recent Iron Reduction ir B7) Thin Muck Surface (C7) Other (Explain in Remar	13) (C1) along Living Roots (C3) on (C4) n Tilled Soils (C6)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3)
DROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Inundation Visible Observations: Surface Water Present? Surface Water Present? Ves Vater Table Present?	d; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B Hydrogen Sulfide Odor () Oxidized Rhizospheres a Presence of Reduced Iron Reduction ir Recent Iron Reduction ir Thin Muck Surface (C7) Other (Explain in Remar No X Depth (inches): No X Depth (inches):	13) (C1) along Living Roots (C3) on (C4) n Tilled Soils (C6)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Cand Shallow Aquitard (D3) FAC-Neutral Test (D5)
DROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Inundation Visible Observations: Surface Water Present? Yes Vater Table Present? Yes Surfact Water Table Present? Yes Surfact Water Table Present? Yes Surfact Water Table Present? Yes	d; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B Hydrogen Sulfide Odor (Oxidized Rhizospheres a Presence of Reduced Iro Recent Iron Reduction ir B7) Thin Muck Surface (C7) Other (Explain in Remar	13) (C1) along Living Roots (C3) on (C4) n Tilled Soils (C6)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3)
DROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (E) Water-Stained Leaves (B9) Sield Observations: Surface Water Present? Yes Vater Table Present? Yes Saturation Present? Yes Saturation Present? Yes Sincludes capillary fringe)	d; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B Hydrogen Sulfide Odor () Oxidized Rhizospheres a Presence of Reduced Ira Recent Iron Reduction ir Recent Iron Reduction ir Thin Muck Surface (C7) Other (Explain in Remar	13) (C1) along Living Roots (C3) on (C4) n Tilled Soils (C6) ks) Wetland Hy	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Caster of the control
Depth (inches): marks: DROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Inches Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes Sincludes capillary fringe) scribe Recorded Data (stream gauge, mon	d; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B Hydrogen Sulfide Odor () Oxidized Rhizospheres a Presence of Reduced Ira Recent Iron Reduction ir Recent Iron Reduction ir Thin Muck Surface (C7) Other (Explain in Remar	13) (C1) along Living Roots (C3) on (C4) n Tilled Soils (C6) ks) Wetland Hy	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Caster of the control
Depth (inches): marks: DROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Inches) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes	d; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B Hydrogen Sulfide Odor () Oxidized Rhizospheres a Presence of Reduced Ira Recent Iron Reduction ir Recent Iron Reduction ir Thin Muck Surface (C7) Other (Explain in Remar	13) (C1) along Living Roots (C3) on (C4) n Tilled Soils (C6) ks) Wetland Hy	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Caster of the control
Depth (inches): marks: DROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Inches Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes Sincludes capillary fringe) scribe Recorded Data (stream gauge, mon	d; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B Hydrogen Sulfide Odor () Oxidized Rhizospheres a Presence of Reduced Ira Recent Iron Reduction ir Recent Iron Reduction ir Thin Muck Surface (C7) Other (Explain in Remar	13) (C1) along Living Roots (C3) on (C4) n Tilled Soils (C6) ks) Wetland Hy	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Caster of the control
Depth (inches): marks: DROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Inches Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes Sincludes capillary fringe) scribe Recorded Data (stream gauge, mon	d; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B Hydrogen Sulfide Odor () Oxidized Rhizospheres a Presence of Reduced Ira Recent Iron Reduction ir Recent Iron Reduction ir Thin Muck Surface (C7) Other (Explain in Remar	13) (C1) along Living Roots (C3) on (C4) n Tilled Soils (C6) ks) Wetland Hy	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Caster of the control

Project/Site: Carm	nenere Estates			City/County:	Town of Lo	oomis, Place	r County	Sam	npling Dat	ie:	10/17/18
Applicant/Owner: Mima	a Capital, LLC.					S	tate: CA	Sam	npling Poi	int: <u>DP22</u>	
Investigator(s): Matt	Shaffer			Section	n, Township	, Range: <u>S</u>	tate: S8, T11	1N, R7E			
Landform (hillslope, terr	race, etc.):	hillslope		Local re	elief (concav	e, convex, n	ione): conca	ve		Slope (%):	5
Subregion (LRR): Medi	terranean Califor	nia (LRR C)	Lat:		38.8	1313587 I	Long:	-121.2	141527	Datum	: NAD 83
Soil Map Unit Name:	(106) Andregg	coarse sandy	loam, 2-9% s	slopes		NV	VI Classificat	tion: None			
Are climatic / hydrologic	conditions on th	e site typical fo	or this time of	year?	Yes	Х	No	(If no,	explain in	Remarks.	.)
Are Vegetation	, Soil	, or Hydrology		significantly	disturbed?	Are "Nor	rmal Circums	stances" pre	sent? \	res X	No
Are Vegetation	, Soil	, or Hydrology		naturally pro	blematic?	(If neede	d, explain an	ıy answers ir	ո Remark	.s.)	
SUMMARY OF FIN	DINGS – Atta	ıch site ma _l	o showing	sampling	point loca	ations, tra	nsects, im	portant fe	eatures	, etc.	
Hydrophytic Vegetation	Present?	Yes X 1	No								
Hydric Soil Present?			No		mpled Area	a	Yes X	. No			
Wetland Hydrology Pres	sent?	Yes X	No	- within a	Wetland?						
Remarks: Shallow swal		nond Within r	asture and h	eavily grazed	/trampled b	v cattle					
VEGETATION – U:	se scientific r	names of pla	ants.								
			Absolute	Dominant	Indicator	Dominanc	e Test work	shoot:			
Trac Stratum (Dist	-i	`	% Cover		Status		Dominant S				
<u>Tree Stratum</u> (Plot	size:	,		· 			BL, FACW,				(A)
າ			-	· ———		Total Numl	ber of Domin				_(A)
2			-	· ———			cross All Stra				(D)
J								_			_(B)
T			0	=Total Cover			Dominant Sp BL, FACW, 0	•			(A/B)
				- Total Govel		That 7 ii C C	,DL, 17(OW, 1				_(/ (/ D)
Sapling/Shrub Stratu	m (Plot size:)				Prevalence	e Index Wor	ksheet:			
1				. ———			% Cover of:		Multip	oly by:	=
2				· ——		OBL specie		x1 =			_
3				· ———		FACW spe		x2 =			_
4			-	. ———		FAC specie		x3 =			_
5						FACU spec		x4 =			=
		2 、	0	=Total Cover	ſ	UPL specie		x5 =			- (D)
Herb Stratum (Plot		_)	30	V	N/A	Column To		(A)			_(B)
1. <u>Unknown seedlin</u> 2. Unknown seedlin			20	- <u>I</u>	N/A	Prevaler	nce Index = E	3/A =			=
 Unknown seedling 			10	· —	N/A	Lludrophut	tic Vegetatio				
4. Polypogon monsi	•		T	·	FACW		ominance Te		э.		
5. <i>Ranunculus bona</i>					OBL		revalence In				
6.				. ———			forphological			la aummanti	
7.							ata in Remar				ng
8.			-				roblematic H		•		ı)
·			60	=Total Cover		·	Toblomatio T	iyaropiiyao v	ogotatioi	· (Explain	,
Woody Vine Stratum	(Plot size:)		- Total Govol	'	¹ Indicators	of hydric soil	l and wetlan	d hydrolo	av must	
1	. (1 101 0120.	/					, unless distu			gy mast	
2.			-	. ———		11 1 1					
_			0	=Total Cover		Hydrophyt Vegetation					
% Bare Ground in He	erb Stratum	40		Biotic Crust	0	Present?	•	Yes	X	No	
Remarks: Heavily graze	-			-			icator determ	nined based			<u></u> ed
vegetation, soil, and hyd	-	/40/////	0	,		J					

Depth	Matrix			Redox Feat	_ 1	^	_	
(inches)	Color (moist)	<u>%</u>	Color (m		Type ¹	Loc ²	_	Remarks
0-3	7.5YR 3/2	95	7.5YR 3/4		<u>C</u>	PL, M	_ <u>loam</u>	
3-7	10YR 3/2	98	7.5 YR 3/4		<u>C</u>	M	sandy loam	
7-10	7.5YR 3/2	95	7.5YR 3/4	5	С	M	sandy loam	_
							_	
	·				-		_	_
								_
¹ Type: C=C	Concentration, D=Depletion	n, RM=Re	educed Matrix	x, CS=Covered or 0	Coated Sai	nd Grains	Location: PL=I	Pore Lining, M=Matrix.
Hydric So	il Indicators: (Applica	able to a	II LRRs, ur	nless otherwise	noted.)		Indicators fo	or Problematic Hydric Soils ³ :
Histo	sol (A1)			Sandy Redox (St	-			uck (A9) (LRR C)
	Epipedon (A2)			Stripped Matrix (-			uck (A10) (LRR B)
	(Histic (A3)			Loamy Mucky Mi				ed Vertic (F18)
	ogen Sulfide (A4)	~ \		Loamy Gleyed M)		rent Material (TF2)
	ified Layers (A5) (LRR	C)		Depleted Matrix (,		Other (Explain in Remarks)
	Muck (A9) (LRR D)	- (444)		Redox Dark Surfa	` '	7 \		
	eted Below Dark Surface (Dark Surface (A12)	æ (A11)		Depleted Dark St	•	')		
	k Dark Surface (A12) ly Mucky Mineral (S1)			Redox Depression Vernal Pools (F9	, ,			dicators of hydrophytic vegetation and
	ly Gleyed Matrix (S4)			vernai Fuuis (F9	,		,	wetland hydrology must be present, unless disturbed or problematic.
	ly Gleyed Matrix (64)							unicas disturbed of problematic.
Restrictive	e I aver (if present):							
	e Layer (if present):							
Type: <u>be</u> Depth (inc	edrock		10			Н	lydric Soil Prese	ent? Yes X No
Type: <u>be</u> Depth (inc	edrock hes):		10			Н	lydric Soil Preso	ent? Yes X No
Type: <u>be</u> Depth (inc Remarks: Di	edrock hes): stinct redox		10			H	lydric Soil Preso	ent? Yes X No
Type: <u>be</u> Depth (inc Remarks: Di	edrock hes): stinct redox SY Hydrology Indicators:	ne requir		all that apply)		H	,	
Type: <u>be</u> Depth (inc Remarks: Di IYDROLOG Wetland F Primary In	edrock hes): stinct redox BY Hydrology Indicators: dicators (minimum of or	ne requir	ed; check a			H	,	econdary Indicators (2 or more required)
Type: be Depth (inc Remarks: Di IYDROLOG Wetland F Primary Inc Surfa	stinct redox SY Hydrology Indicators: dicators (minimum of orace Water (A1)	ne requir	ed; check a	Salt Crust (B11))	H	,	econdary Indicators (2 or more required) Water Marks (B1) (Riverine)
Type: be Depth (inc Remarks: Di EMPLOS Wetland F Primary Inc Surfa High	edrock hes): stinct redox GY Hydrology Indicators: dicators (minimum of or one water (A1) Water Table (A2)	ne requir	ed; check a	Salt Crust (B11) Biotic Crust (B12	•		,	econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Type: be Depth (inc emarks: Di WDROLOG Wetland F Primary Inc Surfa High Satur	stinct redox SY Hydrology Indicators: dicators (minimum of orace Water (A1)		ed; check a	Salt Crust (B11)	ates (B13	3)	<u>s</u>	econdary Indicators (2 or more required) Water Marks (B1) (Riverine)
Type: be Depth (inc demarks: Di TYDROLOG Wetland F Primary Inc Surfa High Satur Wate	edrock hes): stinct redox Hydrology Indicators: dicators (minimum of orace Water (A1) Water Table (A2) ration (A3)	rine)	ed; check a	Salt Crust (B11) Biotic Crust (B12 Aquatic Invertebr	ates (B13 Odor (C	3)	s	econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Type: be Depth (inc Remarks: Di TYDROLOG Wetland F Primary Inc Surfa High Satur Wate Sedir	stinct redox SY Hydrology Indicators: dicators (minimum of orace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonrivel	rine) onriverin	ed; check a	Salt Crust (B11) Biotic Crust (B12 Aquatic Invertebr Hydrogen Sulfide	rates (B13 Odor (Co oheres alc	3) 1) 2) 3)	s	econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) C Drainage Patterns (B10)
Type: be Depth (inc Remarks: Di Remarks: Di	stinct redox SY Hydrology Indicators: dicators (minimum of orace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonriverment Deposits (B2) (No	rine) onriverin	ed; check a	Salt Crust (B11) Biotic Crust (B12 Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp	rates (B13 Odor (Conheres aldouced Iron	3) 1) ong Livin (C4)		econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Containage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Type: be Depth (inc Remarks: Di Remarks: D	stinct redox SY Hydrology Indicators: dicators (minimum of or ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonrivelement Deposits (B2) (Nonrivelement Deposits (B3) (Nonrivele	rine) onriverin erine)	ed; check a	Salt Crust (B11) Biotic Crust (B12 Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Red	e Odor (Contract of the contract 3) 1) ong Livin (C4)		econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Control Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)	
Type: be Depth (inc Remarks: Di TYDROLOG Wetland F Primary Inc Surfa High Satur Wate Sedir X Drift I Surfa Inunc	edrock hes): stinct redox Hydrology Indicators: dicators (minimum of orace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonriver ment Deposits (B2) (No Deposits (B3) (Nonriver ace Soil Cracks (B6)	rine) onriverin erine)	ed; check a	Salt Crust (B11) Biotic Crust (B12 Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Red Recent Iron Redu	e Odor (Contract of the Contract 3) 1) ong Livin (C4) Tilled Soi		econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Comparise Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)	
Type: be Depth (inc Remarks: Di Remarks: Di	edrock hes): stinct redox Hydrology Indicators: dicators (minimum of orace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonriver ment Deposits (B2) (Non Deposits (B3) (Nonriver ace Soil Cracks (B6) dation Visible on Aerial er-Stained Leaves (B9)	rine) onriverin erine)	ed; check a	Salt Crust (B11) Biotic Crust (B12 Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Red Recent Iron Redu Thin Muck Surface	e Odor (Contract of the Contract 3) 1) ong Livin (C4) Tilled Soi		econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Corayinage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)	
Type: be Depth (inc) Remarks: Di Remarks:	edrock hes): stinct redox Hydrology Indicators: dicators (minimum of orace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonriver ment Deposits (B2) (Non Deposits (B3) (Nonriver ace Soil Cracks (B6) dation Visible on Aerial er-Stained Leaves (B9)	rine) onriverin erine) Imagery	ed; check a	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Red Recent Iron Redu Thin Muck Surfac Other (Explain in	ates (B13 c Odor (C oheres ald uced Iron uction in T ce (C7) Remarks	B) 1) ong Livin (C4) Tilled Soi		econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Corange Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Type: be Depth (inc Remarks: Di Remarks: D	edrock hes): stinct redox Hydrology Indicators: dicators (minimum of orace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonriver ment Deposits (B2) (Nonriver ace Soil Cracks (B6) dation Visible on Aerial er-Stained Leaves (B9) ervations: dater Present? Yes le Present? Yes	rine) enriverine erine) Imagery	ed; check a e) (B7) NoX NoX	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Red Recent Iron Redu Thin Muck Surfac Other (Explain in Depth (inches) Depth (inches)	ates (B13 Odor (Copheres alcouced Iron function in Tope (C7) Remarks	B) 1) ong Livin (C4) Tilled Soi	g Roots (C3)	econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Coraylish Burrows (B10) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Type: be Depth (inc. Remarks: Di Remarks:	edrock hes): stinct redox dicators (minimum of orace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonriverment Deposits (B2) (Nonriverment Deposits (B3) (Nonriverment Deposits (B4) (Nonriverment Deposits (B6) (Nonr	rine) enriverine erine) Imagery	ed; check a e) (B7) NoX	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Red Recent Iron Redu Thin Muck Surfac Other (Explain in	ates (B13 Odor (Copheres alcouced Iron function in Tope (C7) Remarks	B) 1) ong Livin (C4) Tilled Soi	g Roots (C3)	econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Corange Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Type: be Depth (inc Remarks: Di Remarks: Di	edrock hes): stinct redox Hydrology Indicators: dicators (minimum of orace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonriver ment Deposits (B2) (Nonriver ace Soil Cracks (B6) dation Visible on Aerial er-Stained Leaves (B9) ervations: dater Present? Yes le Present? Yes	rine) enriverine erine) Imagery	ed; check a e) (B7) NoX NoX NoX	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Red Recent Iron Redu Thin Muck Surfac Other (Explain in Depth (inches) Depth (inches)	ates (B13 Odor (C' oheres ald uced Iron uction in 1 ce (C7) Remarks	3) 1) ong Livin (C4) Tilled Soi	g Roots (C3)	econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Coraylish Burrows (B10) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Type: be Depth (inc Remarks: Di Remarks: D	stinct redox st	rine) onrivering erine) Imagery ——— auge, mo	ed; check a e) (B7) No X No X No X no x	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Red Recent Iron Redu Thin Muck Surfac Other (Explain in Depth (inches) Depth (inches)	ates (B13 Odor (C' oheres ald uced Iron uction in 1 ce (C7) Remarks	3) 1) ong Livin (C4) Tilled Soi	g Roots (C3)	econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Coraylish Burrows (B10) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Type: be Depth (inc Remarks: Di Remarks: D	edrock hes): stinct redox dicators (minimum of orace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonriverment Deposits (B2) (Nonriverment Deposits (B3) (Nonriverment Deposits (B4) (Nonriverment Deposits (B6) (Nonr	rine) onrivering erine) Imagery ——— auge, mo	ed; check a e) (B7) No X No X No X no x	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Red Recent Iron Redu Thin Muck Surfac Other (Explain in Depth (inches) Depth (inches)	ates (B13 Odor (C' oheres ald uced Iron uction in 1 ce (C7) Remarks	3) 1) ong Livin (C4) Tilled Soi	g Roots (C3)	econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Coraylish Burrows (B10) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)

Project/Site:	Carmenere Estate	s s		City/County:	Town of Lo	omis, Placer Co	unty	Sam	pling Date	e:	10/17/18
Applicant/Owner:	Mima Capital, LLC) .				State	: CA	Sam	pling Poin	it: <u>DP23</u>	3
Investigator(s):	Matt Shaffer			Section	n, Township	, Range: State	: S8, T11N, F	7E			
Landform (hillslop	oe, terrace, etc.):	hillslope		Local re	elief (concav	e, convex, none): convex		SI	lope (%):	:5
Subregion (LRR):	Mediterranean Ca	lifornia (LRR C)	Lat:		38.8	1319911 Long	g:	-121.21	137926	Datum	n: NAD 83
Soil Map Unit Nar	me: (106) Andr	egg coarse sandy	/ loam, 2-9% s	lopes		NWI C	lassification:	None			
Are climatic / hyd	rologic conditions or	n the site typical f	or this time of	year?	Yes	X N	0	(If no, €	explain in l	Remarks	s.)
Are Vegetation	, Soil	, or Hydrology	•	significantly	disturbed?	Are "Normal	Circumstanc	es" pres	sent? Ye	es X	No
Are Vegetation		, or Hydrology		naturally pro	blematic?	(If needed, e	xplain any an	swers in	n Remarks	5.)	_
SUMMARY O	F FINDINGS – A	Attach site ma	p showing	sampling	point loca	ations, transe	ects, impor	tant fe	atures,	etc.	
Hydrophytic Vege	etation Present?	Yes	No X								
Hydric Soil Prese	nt?	Yes	No X		mpled Area Wetland?	Yes	6	No	X		
Wetland Hydrolog	gy Present?	Yes	No X	Within a	welland?						
VEGETATION	lloo coiontifi	io names of n	lanto								
VEGETATION	- Use scientifi	c names of pi	ants.								
			Absolute	Dominant	Indicator	Dominance Te	est workshee	et:			
Tree Stratum	(Plot size:)	% Cover	Species?	Status	Number of Dor					
1						That Are OBL,	FACW, or FA	،C:	0		(A)
2.						Total Number	of Dominant			•	_
3.						Species Across	s All Strata:		0		(B)
4.						Percent of Don	ninant Specie				
			0	=Total Cover	-	That Are OBL,			0%	, o	(A/B)
Sapling/Shrub	Stratum (Plot size:)				Prevalence Inc	dex Worksho	et:			
1			-			Total % C	over of:		Multiply	y by:	
2						OBL species	0	x1 =	0		
3			-			FACW species	0	x2 =	0		
4						FAC species	0	x3 =	0		_
5						FACU species	0	x4 =	0		_
			0	=Total Cover	-	UPL species	10	x5 =	50)	
Herb Stratum	(Plot size:1 me	eter ²)				Column Totals	10	(A)	50)	(B)
1. Centaurea s	olstitialis		10		UPL	Prevalence I	ndex = B/A =		5.0		_
2. Erodeum bo	trys		T		FACU						
3. <u>Unknown se</u>	•		3		<u>N/A</u>	Hydrophytic V	egetation In	dicators	3:		
4. <u>Unknown se</u>			2		N/A		nance Test is				
5. <u>Unknown se</u>	edling		T		N/A	Preva	lence Index i	s ≤3.0 ¹			
6							nological Ada				ing
7						data i	n Remarks o	r on a se	eparate sh	ıeet)	
8						Proble	ematic Hydro	phytic V	egetation ¹	(Explair	1)
			15	=Total Cover	-						
Woody Vine St	<u>tratum</u> (Plot size: _)				¹ Indicators of h				y must	
1						be present, unl	ess disturbed	or prob	lematic.		
2						Hydrophytic					
			0	=Total Cover	•	Vegetation					
% Bare Ground	d in Herb Stratum	85	% Cover of	Biotic Crust _	0	Present?		Yes_		No	<u>X</u>
	grazed. Portion of				nnot be ider	ntified this time o	f the year. Hy	drophyt	ic vegetati	ion indica	ator
determined based	d on known associa	ted vegetation, so	oil, and hydrolo	ogy.							

inches) Color (moist) % 0-2 7.5YR 2.5/2 100	Color (moist) %	Type ¹ Loc ² Textur	re Remarks
2 1.011(2.0/2 100		Type ¹ Loc ² Textur Ioam	
			
ype: C=Concentration, D=Depletion, RM=Re	educed Matrix, CS=Covered or Coa	ated Sand Grains. ² Location: F	PL=Pore Lining, M=Matrix.
ydric Soil Indicators: (Applicable to a	all LRRs, unless otherwise no	ted.) Indicator	s for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	1 cm	n Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S6)		n Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mine	· · ·	uced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matr	· · ·	Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3	•	er (Explain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark Surface		
Depleted Below Dark Surface (A11)	Depleted Dark Surfa	, ,	
Thick Dark Surface (A12)	Redox Depressions	(F8)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools (F9)		wetland hydrology must be present,
Sandy Gleyed Matrix (S4)			unless disturbed or problematic.
estrictive Layer (if present):			
ype: <u>bedrock</u> epth (inches):	2	Handala Oall Bu	resent? Yes No
ери (піспез).		Hydric Soil Pr	esent! TesNo
Vetland Hydrology Indicators:			
Vetland Hydrology Indicators: rimary Indicators (minimum of one requir			Secondary Indicators (2 or more required)
Vetland Hydrology Indicators: rrimary Indicators (minimum of one requir Surface Water (A1)	Salt Crust (B11)		Water Marks (B1) (Riverine)
Vetland Hydrology Indicators: rimary Indicators (minimum of one requir Surface Water (A1) High Water Table (A2)	Salt Crust (B11) Biotic Crust (B12)	ae (R13)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Vetland Hydrology Indicators: rimary Indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Vetland Hydrology Indicators: Irimary Indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O	dor (C1)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Vetland Hydrology Indicators: Primary Indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverin	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe	dor (C1) eres along Living Roots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
Vetland Hydrology Indicators: Primary Indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce	dor (C1) eres along Living Roots (C3) ed Iron (C4)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Vetland Hydrology Indicators: Primary Indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reduct	dor (C1) eres along Living Roots (C3) ed Iron (C4) ion in Tilled Soils (C6)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Vetland Hydrology Indicators: Primary Indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reduct	dor (C1) eres along Living Roots (C3) ed Iron (C4) ion in Tilled Soils (C6) (C7)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Vetland Hydrology Indicators: Primary Indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reduct (B7) Thin Muck Surface	dor (C1) eres along Living Roots (C3) ed Iron (C4) ion in Tilled Soils (C6) (C7)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3)
Vetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations:	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reduct (B7) Thin Muck Surface	dor (C1) eres along Living Roots (C3) ed Iron (C4) ion in Tilled Soils (C6) (C7)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3)
Vetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reduct (B7) Thin Muck Surface Other (Explain in Re	dor (C1) eres along Living Roots (C3) ed Iron (C4) ion in Tilled Soils (C6) (C7) emarks)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3)
Vetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Ves Vater Table Present?	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduct Recent Iron Reduct (B7) Thin Muck Surface Other (Explain in Re	dor (C1) eres along Living Roots (C3) ed Iron (C4) ion in Tilled Soils (C6) (C7) emarks)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3)
Vetland Hydrology Indicators: Primary Indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Vield Observations: Surface Water Present? Yes Vater Table Present? Yes Saturation Present? Yes Includes capillary fringe)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reduct (B7) Thin Muck Surface Other (Explain in Re No X Depth (inches): No X Depth (inches):	dor (C1) eres along Living Roots (C3) ed Iron (C4) ion in Tilled Soils (C6) (C7) emarks) Wetland F	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Vetland Hydrology Indicators: Primary Indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Vater Table Present? Yes Saturation Present? Yes Saturation Present? Yes Sincludes capillary fringe)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reduct (B7) Thin Muck Surface Other (Explain in Re No X Depth (inches): No X Depth (inches):	dor (C1) eres along Living Roots (C3) ed Iron (C4) ion in Tilled Soils (C6) (C7) emarks) Wetland F	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Ves Vater Table Present? Ves Saturation Present? Ves Sincludes capillary fringe) Scribe Recorded Data (stream gauge, mo	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reduct (B7) Thin Muck Surface Other (Explain in Re No X Depth (inches): No X Depth (inches):	dor (C1) eres along Living Roots (C3) ed Iron (C4) ion in Tilled Soils (C6) (C7) emarks) Wetland F	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Vetland Hydrology Indicators: Primary Indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Vater Table Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Sincludes capillary fringe)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reduct (B7) Thin Muck Surface Other (Explain in Re No X Depth (inches): No X Depth (inches):	dor (C1) eres along Living Roots (C3) ed Iron (C4) ion in Tilled Soils (C6) (C7) emarks) Wetland F	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Vetland Hydrology Indicators: Primary Indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Vater Table Present? Yes Saturation Present? Yes Saturation Present? Yes Includes capillary fringe) Scribe Recorded Data (stream gauge, mo	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reduct (B7) Thin Muck Surface Other (Explain in Re No X Depth (inches): No X Depth (inches):	dor (C1) eres along Living Roots (C3) ed Iron (C4) ion in Tilled Soils (C6) (C7) emarks) Wetland F	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)

Project/Site:	Carmenere Estate	S		City/County:	Town of Lo	omis, Plac	er Count	ty	Sampling Da	ate:	10/17/18
Applicant/Owner:	Mima Capital, LLC						State: C	CA	Sampling Po	oint: DP2	4
Investigator(s):	Matt Shaffer			Section	n, Township	, Range:	State: S8	3, T11N, F	₹7E		
Landform (hillslop	e, terrace, etc.):	hillslope		Local re	elief (concav	e, convex,	none): c	oncave		Slope (%)	: <2
Subregion (LRR):	Mediterranean Cal	ifornia (LRR	C) Lat:		38.8	1274209	Long:		-121.2141316	Datun	n: NAD 83
Soil Map Unit Nar	ne: (106) Andre	egg coarse s	andy loam, 2-9%	slopes		N	WI Clas	sification:	None		
Are climatic / hyd	rologic conditions or	the site typi	ical for this time of	year?	Yes	Х	No		(If no, explain i	n Remark	s.)
	, Soil				disturbed?	Are "N	ormal Cir		es" present?		
Are Vegetation			ology						swers in Remar		_
SUMMARY O	F FINDINGS – A					ations, tr	ansect	s, impor	tant feature:	s, etc.	
Hydrophytic Vege	etation Present?	Yes)	(No								
Hydric Soil Prese		Yes 7	No		mpled Area	а	Yes	Χ	No		
້ Wetland Hydrolog	y Present?	Yes 7	No	- within a	Wetland?		_		-		
	oond utilized by cattle	a fan drimkins	. Cuidanas af bas	-	amal marralere	uith mainima	lvamatai	tion Dond	armandad bros		harma alama
VEGETATION	- Use scientifi	c names o	of plants.								
			Absolute	Dominant	Indicator	Dominan	ce Test	workshee	et:		
Tree Stratum	(Plot size:		% Cover	Species?	Status	Number of	of Domina	ant Specie	es		
1.	(1 101 5126.			. ———		That Are	OBL, FA	.CW, or FA	AC:	0	(A)
2				. ———		Total Nur	nher of Γ	Ominant		<u> </u>	_('')
3				. ———		Species A				0	(B)
σ. Λ						ļ .				<u> </u>	_(D)
T.				=Total Cove				ant Specie .CW, or F <i>I</i>		0%	(A/B)
					•	111017110	OBL, 170	.011, 01 17		<i>y</i> 70	_(', (', ', ', ', ', ', ', ', ', ', ', ', ', '
Sapling/Shrub	Stratum (Plot size:)			Prevalen	ce Index	(Workshe			
1.			- /				ıl % Cove			iply by:	
2.						OBL spec		1	x1 =	1	_
3.				-, -	-	FACW sp		0	x2 =	0	_
4.				-, -	-	FAC spec	_	0	x3 =	0	_
5.				-, 		FACU sp	_	0	x4 =	0	_
			0	=Total Cove		UPL spec	_	0	x5 =	0	_
Herb Stratum	(Plot size:1 m	eter ²)		_		Column T	otals:	1	(A)	1	(B)
1. Lythrum hys			1		OBL				1.0	,	_ ` ′
2. Unknown se			<u></u>		N/A						_
3.				<u> </u>		Hydroph	ytic Veg	etation In	dicators:		
4.				<u> </u>			Dominar	nce Test is	>50%		
5.				<u> </u>		X	Prevalen	nce Index i	s ≤3.0 ¹		
6.				<u> </u>			Morpholo	ogical Ada	ptationd ¹ (Provi	de suppor	tina
7.				-					r on a separate		3
8.				<u> </u>			Problem	atic Hydro	phytic Vegetatio	on¹ (Explai	n)
			2	=Total Cove							
Woody Vine St	tratum (Plot size:)	_		¹ Indicator	s of hydr	ic soil and	wetland hydrol	ogy must	
1.									l or problematic		
2.				-		Hydronb	utic				
			0	=Total Cove	r	Hydroph: Vegetation					
% Bare Ground	d in Herb Stratum	98*	% Cover of	Biotic Crust		Present?			Yes X	No	
	bare mud, some le			-				Hydronhyd			termined
	associated vegetation						, oui.	,			
	· ·										

Depth	Matrix	o the de	pui neeu	Redox F			toi oi	COIIII	illi tile absellt	e or mulcator	3.)		
(inches)	Color (moist)	%	Color (ı			Type ¹	Loc	nc ²	Texture		Rem	arks	
0-1	2.5Y 2.5/1	100	1000	70	_	Турс			silt loam	mucky	110111	arko	
1-9	10YR 3/2	70	7.5YR 3/	4	25	С	М		sandy loam	<u></u>			
			10R 3/4	<u> </u>	5	C	M		<u> </u>	-			
9-12	10YR 3/2	95	2.5YR 2.	5/2	5	C	М		sandy loam				
							-						
							_						
¹ Type: C=Co	oncentration, D=Depletion	n, RM=Re	duced Mati	rix, CS=Covered	or (Coated Sar	nd Grai	ains. ² L	ocation: PL=Po	re Lining, M=Ma	trix.		
Hydric Soi	I Indicators: (Applica	able to al	I LRRs, u	ınless otherwi	se	noted.)		I	Indicators for	Problematic I	Hydric Soi	ls³:	
Histos	sol (A1)			Sandy Redox	(S5	5)		_	X 1 cm Muc	k (A9) (LRR C	;)		
Histic	Epipedon (A2)			Stripped Matr	ix (S	36)		_	2 cm Muc	k (A10) (LRR	B)		
Black	Histic (A3)			Loamy Mucky	Mi	neral (F1)		_	Reduced	Vertic (F18)			
Hydro	gen Sulfide (A4)			Loamy Gleyed	M b	atrix (F2)		_	Red Pare	nt Material (TF	2)		
Stratif	ied Layers (A5) (LRR (C)		Depleted Mat	rix (F3)		_	Other (Ex	plain in Rema	rks)		
	Muck (A9) (LRR D)		_X_	Redox Dark S	urfa	ace (F6)							
Deple	ted Below Dark Surfac	e (A11)		Depleted Darl	ς Sι	urface (F7	')						
	Dark Surface (A12)			Redox Depres					³ Indic	ators of hydro	phytic veae	etation and	d
	Mucky Mineral (S1)			Vernal Pools	(F9))			we	tland hydrolog	y must be p	oresent,	
	Gleyed Matrix (S4)								U	ınless disturbe	d or proble	matic.	
Restrictive	Layer (if present):												
Туре:											_	_	
Depth (inch	es):							Hydr	ic Soil Presen	t?	Yes	<u> </u>	o
HYDROLOG													
	ydrology Indicators:			-11 414 1					0		(0		1\
	icators (minimum of or ce Water (A1)	ne require	ea; cneck		1\				<u>Sec</u>	ondary Indicat Water Marks			ea)
	Vater Table (A2)		X	Salt Crust (B1 Biotic Crust (B		١				Sediment De	` , `	•	a)
	ation (A3)			Aquatic Invert		•	3			Drift Deposit		•	5)
·	· Marks (B1) (Nonriver	rine)		Hydrogen Sul		-			-	Drainage Pa	. , .	,	
·	nent Deposits (B2) (No		<u> </u>	Oxidized Rhiz		•	•	vina Ro	oots (C3)	Dry-Season	-	•	
	Deposits (B3) (Nonrive			Presence of F			•	•	(,	Crayfish Bur		- ()	
·	ce Soil Cracks (B6)	- /		Recent Iron R						Saturation V		rial Image	ery (C9)
	ation Visible on Aerial I	lmagery (B7) X					•	, <u> </u>	Shallow Aqu		J	, ,
	-Stained Leaves (B9)		, <u> </u>	Other (Explain)			FAC-Neutral	Test (D5)		
Field Obse	rvations:												
Surface Wa	ater Present? Yes		No X	_ Depth (inch	es)	:							
Water Table	e Present? Yes		No X	Depth (inch	es)	·							
Saturation I		X	No	_ Depth (inch	es)	:0		V	Vetland Hydro	logy Present	? Yes	XN	o
•	apillary fringe)	uigo mor	aitoring 14	all parial photo	<u> </u>	rovious in	onaat	tions)	if available:				
Describe Rec	orded Data (stream ga	auge, mor	mornig we	en, aeriai prioto	ა, p	nevious ir	ispect	,uoris),	ıı avallable:				
Remarks: Inte	ermittent/perennial pon	ding of w	ater										

Project/Site:	Carmenere Estate	:S		City/County:	Town of Lo	omis, Placer Co	ounty	Sam	pling Date	:	10/18/18
Applicant/Owner:	Mima Capital, LLC	· /-				State	: <u>CA</u>	Sam	pling Point	t: <u>DP25</u>	;
Investigator(s):	Matt Shaffer			Section	n, Township	, Range: State	: S8, T11N, I	₹7E			
Landform (hillslop	oe, terrace, etc.):	hillslope		Local re	elief (concav	e, convex, none): concave		Slo	ope (%):	5
Subregion (LRR):	Mediterranean Ca	lifornia (LRR C)	Lat:		38.8	1399391 Long	g:	-121.21	173458	Datum	: NAD 83
Soil Map Unit Nar	me: (194) Xero	fluvents, frequentl	y flooded			NWIC	lassification:	None			
Are climatic / hyd	rologic conditions or	n the site typical fo	or this time of	year?	Yes	X N	0	(If no, e	explain in F	Remarks	.)
Are Vegetation	, Soil	, or Hydrology		significantly	disturbed?	Are "Normal	Circumstan	_			
Are Vegetation	, Soil					(If needed, e					
SUMMARY O	F FINDINGS – A					itions, transe	ects, impo	rtant fe	atures,	etc.	
Hydrophytic Vege	etation Present?	Yes	No X								
Hydric Soil Prese			No X		mpled Area	Ye:	6	No	X		
ຸ້ Wetland Hydrolog			No X	within a	Wetland?		-			_	
Remarks: Point ta	aken in old remnant	ditch.									
VEGETATION	- Use scientifi	c names of pl	ants. Absolute	Dominant	Indicator	Dominance To	est workshe	et:			
Tree Stratum	(Plot size:)	% Cover	Species?	Status	Number of Dor					
1. Quercus wis		,	80	Υ	UPL	That Are OBL,	FACW, or F	AC:			(A)
2.						Total Number	of Dominant				_ ` ′
3.						Species Acros	s All Strata:				(B)
4.			-			Percent of Dor	ainant Cnaoi			-	_\ /
			80	=Total Cover		That Are OBL,					(A/B)
						•	,				_` ′
Sapling/Shrub	Stratum (Plot size:)				Prevalence In	dex Worksh	eet:		-	
1						Total % C			Multiply	/ bv·	
··						OBL species	0	x1 =	0	~).	_
2. 3				. ———		FACW species		 x2 =	0	-	_
σ. 1			-			FAC species	5	_^z = 	15		_
5.			-			FACU species		^3 = x4 =	0		_
J			0	=Total Cover		UPL species	90		450		_
Llank Otration	(Dist size : 4	2		- Total Cover		•		_x5 =			_ (D)
	(Plot size:1 me	<u>::er)</u>	-		ΓΛC	Column Totals		_(A)	465		_(B)
1. Rubus arme			10		FAC	Prevalence	ndex = B/A =	-	4.9		_
2. <u>Carduus pyo</u>	•		10		UPL						
3. Rumex crisp			<u>5</u>		FAC	Hydrophytic V	-		\$:		
4. <u>Cynosurus e</u>			T		UPL		nance Test i				
5. <u>Unknown gr</u>			40	<u> </u>	N/A		alence Index				
6. <u>Unknown se</u>	edling		35	Y	N/A		hological Ada				ing
7						data	n Remarks o	or on a se	parate sh	eet)	
8						Probl	ematic Hydro	phytic Ve	egetation ¹	(Explain	1)
			90	=Total Cover	r						
Woody Vine Si	tratum (Plot size: _)				¹ Indicators of h be present, unl				/ must	
2						Hydrophytic					
				=Total Cover	r	Vegetation				_	_
% Bare Ground	d in Herb Stratum	10	% Cover of	Biotic Crust		Present?		Yes		No	<u> </u>
Remarks: Unkno	wn grass and seedl	ing cannot be ide	ntified this tim	e of the year.	Hydrophytic	vegetation indi	cator determ	ined base	ed on kno	wn asso	ciated
vegetation, soil, a	ınd hydrology.										

(inches)	Color (majot)	U/ ₋	Color/mai	ct) 0/	11/00'	OC ² T.	exture			
inches))-4	Color (moist)		Color (moi	st) %	Type ¹ L		exture		Remarks	
- <u>4</u> -6	10YR 2/2 7.5YR 3/2	<u>100</u>				loam	, loom			
0	7.51K 3/Z					Sandy	y loam			
										
	· 					2				
Type: C=C	oncentration, D=Depleti	on, RM=Redu	ced Matrix, (CS=Covered or	r Coated Sand G	rains. 'Locatio	on: PL=Pore Li	ning, M=Matrix.		
ydric Soi	il Indicators: (Applie	cable to all L	RRs, unle	ss otherwise	e noted.)	Indic	ators for Pro	blematic Hyd	ric Soils ³ :	
Histos	sol (A1)			ndy Redox (S	-		1 cm Muck (A	(9) (LRR C)		
Histic	Epipedon (A2)			ripped Matrix			2 cm Muck (A	(10) (LRR B)		
	Histic (A3)			amy Mucky M			Reduced Ver			
	ogen Sulfide (A4)			amy Gleyed N	. ,		Red Parent M			
	fied Layers (A5) (LRF	R C)		epleted Matrix			Other (Explai	n in Remarks)		
	Muck (A9) (LRR D)			edox Dark Sur						
	eted Below Dark Surfa	ace (A11)		epleted Dark S	` ,					
	Dark Surface (A12)			edox Depress			³ Indicato	rs of hydrophy	tic vegetation	and
	y Mucky Mineral (S1)		Ve	ernal Pools (F	9)		wetlan	d hydrology m	ust be preser	nt,
	y Gleyed Matrix (S4)						unle	ss disturbed or	r problematic.	
4 . 4.	e Layer (if present):									
estrictive	Layer (ii present).									
ype: <u>be</u> epth (inch	drock		6			Hydric So	il Present?	Yo	es	No
ype: <u>be</u> epth (inch marks:	drock nes):		6			Hydric So	il Present?	Yo	es	No
ype: <u>be</u> epth (inch marks:	drock nes):		6			Hydric So	il Present?	Yo	9S	No
ype: <u>be</u> Depth (inch marks: DROLOG Vetland H	drock nes): <u></u>		<u>-</u>	that apply)		Hydric So				
Type: <u>be</u> Depth (inch marks: DROLOG Vetland H Primary Inc	drock nes): Y lydrology Indicators dicators (minimum of		check all t)	Hydric So	Second	ary Indicators	(2 or more re	
DROLOG Vetland Herimary Inc.	drock hes): y ydrology Indicators dicators (minimum of oce Water (A1)		check all t	alt Crust (B11)		Hydric So	Second W	ary Indicators ater Marks (B	(2 or more re	quired)
DROLOG Vetland H Surfa High	drock nes): Y Iydrology Indicators dicators (minimum of oce Water (A1) Water Table (A2)		check all t	alt Crust (B11) otic Crust (B1	2)	Hydric So	Second — W — Se	ary Indicators ater Marks (B ²	(2 or more re 1) (Riverine) its (B2) (Rive	quired)
DROLOG Primary Inc Surfa High Satur	drock nes): y ydrology Indicators dicators (minimum of oce Water (A1) Water Table (A2) ation (A3)	one required;	check all t	alt Crust (B11) otic Crust (B1 quatic Inverteb	2) orates (B13)	Hydric So	Second 	ary Indicators ater Marks (B ² ediment Depos ift Deposits (B	(2 or more re I) (Riverine) its (B2) (Rive 3) (Riverine)	quired)
DROLOG Vetland H Surfa High Satur Wate	drock nes): Y Iydrology Indicators dicators (minimum of oce Water (A1) Water Table (A2)	one required; erine)	check all t	alt Crust (B11) otic Crust (B1 juatic Inverteb drogen Sulfid	2) orates (B13)		W Se Dr Dr	ary Indicators ater Marks (B ²	(2 or more re I) (Riverine) iits (B2) (Rive 3) (Riverine) ns (B10)	quired)
DROLOG Vetland H Surfa High Satur Wate Sedin	drock nes): dy dydrology Indicators dicators (minimum of oce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrive	one required; erine) onriverine)	check all the state of the stat	olt Crust (B11) otic Crust (B1 quatic Inverteb drogen Sulfid kidized Rhizos	2) orates (B13) de Odor (C1)	.iving Roots (Second 	ary Indicators ater Marks (B´ ediment Depos ift Deposits (B ainage Patterr	(2 or more re I) (Riverine) its (B2) (Rive 3) (Riverine) as (B10) ter Table (C2)	quired)
DROLOG Primary Inc Surfa High Satur Wate Sedin Drift [drock hes): dy dydrology Indicators dicators (minimum of oce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrivenent Deposits (B2) (Nonrivenent D	one required; erine) onriverine)	check all f	alt Crust (B11) otic Crust (B1 quatic Invertet drogen Sulfid kidized Rhizos esence of Re	2) orates (B13) de Odor (C1) spheres along l	Living Roots (Second	ary Indicators ater Marks (B ediment Depos ift Deposits (B ainage Patterr y-Season Wat	(2 or more red) (Riverine) (its (B2) (Riverine) (B10) (Riverine) (B10) (Riverine) (C2) (C8)	quired) erine)
DROLOG Wetland H Primary Inc Surfa High ' Satur Wate Sedin Drift [Surfa	drock hes): dy dydrology Indicators dicators (minimum of occe Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrivation (A3) rent Deposits (B2) (Nonrivation (B3) (No	one required; erine) onriverine) rerine)	check all t	alt Crust (B11) otic Crust (B1 quatic Invertet drogen Sulfid kidized Rhizos esence of Re	2) brates (B13) de Odor (C1) spheres along I duced Iron (C4 duction in Tilled	Living Roots (Second W Se Dr Dr C3)	ary Indicators ater Marks (B ² ediment Depos ift Deposits (B ainage Patterr y-Season Wat ayfish Burrows	(2 or more red) (Riverine) its (B2) (Riverine) as (B10) ter Table (C2) s (C8) e on Aerial In	quired) erine)
DROLOG Vetland H Surfa High Satur Wate Sedin Drift [Surfa Inund	drock hes): dy dydrology Indicators dicators (minimum of acce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrivent Deposits (B2) (Nonrivent Deposits (B3) (Nonrivene Soil Cracks (B6)	erine) onriverine) rerine)	check all I	alt Crust (B11) potic Crust (B1 puatic Invertet rdrogen Sulfid kidized Rhizos esence of Re ecent Iron Rec	2) prates (B13) de Odor (C1) spheres along I duced Iron (C4 duction in Tilled ace (C7)	Living Roots (Second W Se Dr Dr C3)	ary Indicators ater Marks (Br ediment Depos ift Deposits (B ainage Patterr y-Season Wat ayfish Burrows	(2 or more re 1) (Riverine) iits (B2) (Riverine) as (B10) ter Table (C2) s (C8) e on Aerial In 1 (D3)	quired) erine)
DROLOG Vetland H Surfa High Satur Wate Sedin Drift [Surfa High Wate Mate Wate Mate Mate Mate Mate Mate Mate Mate M	drock hes): dy dydrology Indicators dicators (minimum of oce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrivent Deposits (B2) (Nonrivent Deposits (B3) (Nonrivent Called	erine) onriverine) rerine)	check all I	olt Crust (B11) potic Crust (B1 puatic Inverted rdrogen Sulfice kidized Rhizos esence of Re ecent Iron Receinin Muck Surfa	2) prates (B13) de Odor (C1) spheres along I duced Iron (C4 duction in Tilled ace (C7)	Living Roots (Second W Se Dr Dr C3)	ary Indicators ater Marks (B ² ediment Depos ift Deposits (B ainage Patterr y-Season Wat ayfish Burrows aturation Visibl nallow Aquitaro	(2 or more re 1) (Riverine) iits (B2) (Riverine) as (B10) ter Table (C2) s (C8) e on Aerial In 1 (D3)	quired) erine)
DROLOG DROLOG Vetland H Primary Inc Surfa High Satur Wate Sedin Drift [Surfa Inund Wate	drock hes): Value Indicators Indicators Indicators Indicators Indic	erine) onriverine) rerine) I Imagery (B7	check all the second of the se	olt Crust (B11) potic Crust (B1 puatic Inverted rdrogen Sulfice kidized Rhizos esence of Re ecent Iron Receinin Muck Surfa	2) brates (B13) de Odor (C1) spheres along I duced Iron (C4 duction in Tilled ace (C7) n Remarks)	Living Roots (Second W Se Dr Dr C3)	ary Indicators ater Marks (B ² ediment Depos ift Deposits (B ainage Patterr y-Season Wat ayfish Burrows aturation Visibl nallow Aquitaro	(2 or more re 1) (Riverine) iits (B2) (Riverine) as (B10) ter Table (C2) s (C8) e on Aerial In 1 (D3)	quired) erine)
DROLOG Wetland H Primary Inc Surfa High Wate Sedin Drift I Surfa Inund Wate Surface Wi	drock hes): dy dydrology Indicators dicators (minimum of oce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrive hent Deposits (B2) (Nonrive hent Deposits (B3) (Nonrive hent Deposits (B3) (Nonrive hent Deposits (B6) lation Visible on Aeria r-Stained Leaves (B9) ervations:	erine) onriverine) rerine) I Imagery (B7)	check all the second of the se	alt Crust (B11) putic Crust (B1 puatic Invertet rdrogen Sulfid kidized Rhizos esence of Re ecent Iron Rec in Muck Surfa her (Explain in	2) prates (B13) de Odor (C1) spheres along I duced Iron (C4 duction in Tilled ace (C7) n Remarks)	Living Roots () Soils (C6)	Second W Se Dr Dr C3)	ary Indicators ater Marks (B ² ediment Depos ift Deposits (B ainage Patterr y-Season Wat ayfish Burrows aturation Visibl nallow Aquitaro	(2 or more re 1) (Riverine) iits (B2) (Riverine) as (B10) ter Table (C2) s (C8) e on Aerial In 1 (D3)	quired) erine)
DROLOG Vetland H Primary Inc Satur Wate Sedin Drift I Surfa Inund Wate Surface Water Table	drock hes): dy dydrology Indicators dicators (minimum of oce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrivent Deposits (B2) (Nonrivent Deposits (B3) (Nonrivent Casoli Cracks (B6) lation Visible on Aeria r-Stained Leaves (B9) ervations: ater Present? Ye Present? Ye Present?	erine) onriverine) rerine) I Imagery (B7) s N s N	check all t	alt Crust (B11) putic Crust (B1 puatic Invertet rdrogen Sulfid kidized Rhizos esence of Re ecent Iron Rec in Muck Surfa her (Explain in	porates (B13) de Odor (C1) spheres along I duced Iron (C4 duction in Tilled ace (C7) n Remarks) s):	Living Roots () I Soils (C6)	Second W Se Dr Dr C3)	ary Indicators ater Marks (B' ediment Depos ift Deposits (B ainage Patterr y-Season Wat ayfish Burrows aturation Visibl allow Aquitaro AC-Neutral Tes	(2 or more re 1) (Riverine) iits (B2) (Riverine) as (B10) ter Table (C2) s (C8) e on Aerial In 1 (D3)	quired) erine)
DROLOG Wetland H Primary Inc Satur Wate Sedin Drift I Surfa Inund Wate Surfa Elield Obse Surface Wetland On the control of the	drock hes): dy dydrology Indicators dicators (minimum of oce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrivent Deposits (B2) (Nonrivent Deposits (B3) (Nonrivent Oce Soil Cracks (B6) lation Visible on Aeria r-Stained Leaves (B9 ervations: ater Present? Ye le Present? Ye apillary fringe)	erine) onriverine) rerine) I Imagery (B7) s N s N	check all to Sa Sa Sa Sa Sa Sa Sa S	otic Crust (B11) putic Crust (B1 putic Inverted drogen Sulfid didized Rhizos esence of Re ecent Iron Rec in Muck Surfa her (Explain in Depth (inches Depth (inches	porates (B13) de Odor (C1) spheres along I duced Iron (C4 duction in Tilled ace (C7) n Remarks) s): s):	Living Roots () I Soils (C6) Wetlan	Second 	ary Indicators ater Marks (B' ediment Depos ift Deposits (B ainage Patterr y-Season Wat ayfish Burrows aturation Visibl allow Aquitaro AC-Neutral Tes	(2 or more re 1) (Riverine) iits (B2) (Riverine) as (B10) ter Table (C2) as (C8) e on Aerial In d (D3) st (D5)	quired) Prine)
Depth (inch marks: DROLOG Wetland H Primary Inc Surfa High Satur Wate Sedin Drift I Surfa Inund Wate Field Obse Surface Water Table Saturation includes c	drock hes): dy dydrology Indicators dicators (minimum of oce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrivent Deposits (B2) (Nonrivent Deposits (B3) (Nonrivent Casoli Cracks (B6) lation Visible on Aeria r-Stained Leaves (B9) ervations: ater Present? Ye Present? Ye Present?	erine) onriverine) rerine) I Imagery (B7) s N s N	check all to Sa Sa Sa Sa Sa Sa Sa S	otic Crust (B11) putic Crust (B1 putic Inverted drogen Sulfid didized Rhizos esence of Re ecent Iron Rec in Muck Surfa her (Explain in Depth (inches Depth (inches	porates (B13) de Odor (C1) spheres along I duced Iron (C4 duction in Tilled ace (C7) n Remarks) s): s):	Living Roots () I Soils (C6) Wetlan	Second 	ary Indicators ater Marks (B' ediment Depos ift Deposits (B ainage Patterr y-Season Wat ayfish Burrows aturation Visibl allow Aquitaro AC-Neutral Tes	(2 or more re 1) (Riverine) iits (B2) (Riverine) as (B10) ter Table (C2) as (C8) e on Aerial In d (D3) st (D5)	quired) Prine)
Depth (inch marks: DROLOG Wetland H Primary Inc Surfa High Satur Wate Sedin Drift I Surfa Inund Wate Field Obse Surface Water Table Saturation includes coscribe Rec	drock hes): dy dydrology Indicators dicators (minimum of oce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrivent Deposits (B2) (Nonrivent Deposits (B3) (Nonrivent Oce Soil Cracks (B6) lation Visible on Aeria r-Stained Leaves (B9 ervations: ater Present? Ye le Present? Ye apillary fringe)	erine) onriverine) rerine) I Imagery (B7) s N s N gauge, monito	check all to Sa Sa Sa Sa Sa Sa Sa S	otic Crust (B11) putic Crust (B1 putic Inverted drogen Sulfid didized Rhizos esence of Re ecent Iron Rec in Muck Surfa her (Explain in Depth (inches Depth (inches	porates (B13) de Odor (C1) spheres along I duced Iron (C4 duction in Tilled ace (C7) n Remarks) s): s):	Living Roots () I Soils (C6) Wetlan	Second 	ary Indicators ater Marks (B' ediment Depos ift Deposits (B ainage Patterr y-Season Wat ayfish Burrows aturation Visibl allow Aquitaro AC-Neutral Tes	(2 or more re 1) (Riverine) iits (B2) (Riverine) as (B10) ter Table (C2) as (C8) e on Aerial In d (D3) st (D5)	quired) Prine)
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Project/Site:	Carmenere Estates	3		City/County:	Town of Lo	oomis, Placer (County	Samp	oling Date:	10/18/18
Applicant/Owner:	Evan Mackenzie (E			-			te: CA	– Samp	oling Point:	DP26
Investigator(s):	Matt Shaffer				n, Township		te: S8, T11N, I	_	_	
Landform (hillslop	oe, terrace, etc.):	terrace				e, convex, nor			Slope	e (%): 5
Subregion (LRR):	: Mediterranean Cal	ifornia (LRR C	;) Lat:		38.8	1224482 Lo	ng:	-121.21		Patum: NAD 83
Soil Map Unit Nai		luvents, freque				_	Classification:	None		
Are climatic / hyd	rologic conditions on		•	year?	Yes	X	No	(If no, e	xplain in Ren	narks.)
	, Soil				_	Are "Norm	al Circumstan	_		
Are Vegetation	, Soil			_			explain any ar		_	
	F FINDINGS – A	_		_		ations, trans	sects, impo	rtant fe	atures, etc).
Hydrophytic Vege	station Present?	Yes X	No							
Hydric Soil Prese		Yes X	No No		ampled Area	a y	es X	No		
Wetland Hydrolog		Yes X		- within a	a Wetland?	•		- '''—		
	aken within Antelope	-		<u>- </u>						
VEGETATION	– Use scientific	c names of	plants.							
			Absolute	Dominant	Indicator	Dominance	Test workshe	et:		
Tree Stratum	(Plot size:)	% Cover	Species?	Status	Number of D	ominant Speci	es		
1.	`			-		That Are OB	L, FACW, or F	AC:	1	(A)
2.			<u> </u>			Total Numbe	r of Dominant			```
3.				-		Species Acro	oss All Strata:		2	(B)
4.			<u> </u>			Percent of D	ominant Speci			`` ` ′
			0	=Total Cove	er		L, FACW, or F.		50%	(A/B)
				•						
Sapling/Shrub	Stratum (Plot size:)				Prevalence	Index Worksh	eet:		
1. Salix gooddi	ingii		T		FACW	Total %	Cover of:		Multiply by	<u>/:</u>
2			<u> </u>			OBL species	0	_x1 =	0	
3						FACW speci		_x2 =	64	
4						FAC species		_x3 =	39	
5						FACU specie		_x4 =	100	
		. 2 .	0	_=Total Cove	er	UPL species		_x5 =	0	
	(Plot size: 1 me	<u>ter*</u>)	E		FAC	Column Tota	-	_(A)	203	(B)
1. Rubus arme			<u>5</u> 25	Y	FACU	Prevalence	e Index = B/A =	<u> </u>	2.9	
 Sorghum ha Cyperus era 			<u></u>	<u> </u>	FACW	I lyrdina ja layetta	Vosetation I	diantaua		
4. Persecaria l	•			·	FACW		Vegetation Ir		•	
5. Xanthium st	•				FAC		valence Index			
6. Phytolacca					FAC		rphological Ada		(Dravida av	
	montii (saplings)		_ 3		FAC		rpriologicai Ada a in Remarks d			
8.	Homai (Gapiinge)						blematic Hydro		•	,
o			70	=Total Cove	er		2.5a	, py	·901411011 (2)	Ψ)
Woody Vine S	tratum (Plot size:)			•	¹ Indicators of	f hydric soil and	d wetland	hydrology m	uist
4	<u></u>	,					ınless disturbe			ust
2.				-		I lordina ia la refia				
			0	=Total Cove	er	Hydrophytic Vegetation				
% Bare Groun	d in Herb Stratum	30*	% Cover of	Biotic Crust		Present?		Yes	X No	
Remarks: *Runni	ng water within creel	k.	_							
	3									

Profile Des	scription: (Descri	be to the depth	needed to do	cument	the indicat	or or co	onfirm the absence	of indicators.)
Depth	Matrix	:	Re	dox Feat	tures		<u>-</u>	
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
							<u> </u>	
							<u> </u>	
1								
'Type: C=Co	oncentration, D=Dep	letion, RM=Reduc	ed Matrix, CS=C	overed or	Coated San	d Grains.	² Location: PL=Pore	Lining, M=Matrix.
Hydric Soi	l Indicators: (App	olicable to all L	RRs, unless of	herwise	noted.)		Indicators for Pr	oblematic Hydric Soils ³ :
-	sol (A1)			Redox (S	-			(A9) (LRR C)
	Epipedon (A2)			d Matrix (-			(A10) (LRR B)
	Histic (A3)				lineral (F1)		Reduced Ve	
	gen Sulfide (A4)				/latrix (F2)			Material (TF2)
	ied Layers (A5) (L l	RR C)		ed Matrix				ain in Remarks)
1 cm I	Muck (A9) (LRR D)			face (F6)		<u> </u>	,
 Deple	ted Below Dark Su	rface (A11)	 Deplete	d Dark S	Surface (F7))		
Thick	Dark Surface (A12	2)	Redox I	Depressi	ons (F8)		³ Indicat	ors of hydrophytic vegetation and
Sandy	/ Mucky Mineral (S	1)	Vernal I	Pools (F9	9)			and hydrology must be present,
Sandy	/ Gleyed Matrix (S	1)						ess disturbed or problematic.
Restrictive	Layer (if present):						
Type:								
Depth (inch	ies):		_			Ну	dric Soil Present?	Yes X No
Remarks: N/A	A point taken within	Creek (flowing	water)					
	•	- (3	,					
HYDROLOG	Y							
	ydrology Indicato	rs:						
	licators (minimum		check all that a	(vlaa			Secon	dary Indicators (2 or more required)
	ce Water (A1)			ust (B11)				Vater Marks (B1) (Riverine)
	Nater Table (A2)			rust (B12				Sediment Deposits (B2) (Riverine)
	ation (A3)			•	rates (B13))		Orift Deposits (B3) (Riverine)
	· Marks (B1) (Nonr	riverine)			e Odor (C1			Orainage Patterns (B10)
	nent Deposits (B2)	•	· ·		,	•	· 	Dry-Season Water Table (C2)
 Drift D	Deposits (B3) (Non	riverine)			duced Iron	-	· · · · · · · · · · · · · · · · · · ·	Crayfish Burrows (C8)
	ce Soil Cracks (B6)	•			luction in Ti			Saturation Visible on Aerial Imagery (C9)
	ation Visible on Ae			uck Surfa			· · ·	Shallow Aquitard (D3)
X Water	-Stained Leaves (F	39)	Other (I	Explain ir	n Remarks))	F	FAC-Neutral Test (D5)
Field Obse	ervations:				•			
Surface Wa	ater Present? `	Yes X No	Depth	n (inches): ~30			
Water Tabl		Yes X No		n (inches	<i>'</i> — — —			
Saturation I		Yes X No		n (inches	· ——		Wetland Hydrolog	gy Present? Yes X No
(includes ca	apillary fringe)				, <u> </u>	-		
Describe Rec	orded Data (strear	n gauge, monito	ring well, aerial	photos,	previous in	spection	s), if available:	
Remarks: Per	rennial water flow f	rom north to sou	ıth					
ai i Gi	. J. II III WALOI IIOW I							

Attachment B

Aquatic Resources Delineation Map



Attachment C

Plant Species Observed within the Study Area

Plant Species Observed within the Carmenere Estates Study Area

16, 17, 18 October and 28 November 2018 and 25-26 April and 19 July 2023

Wetland Indicator

		Wetland Indicator
Species Name	Common Name	Status
Acmispon americanus var. americanus	Spanish lotus	UPL
Aesculus californica	California buckeye	UPL
Ailanthus altissima	Tree of heaven	FACU
Aira caryophyllea	Silver hair grass	FACU
Ambrosia psilostachya	Western ragweed	FACU
Amsinckia intermedia	Common fiddleneck	UPL
Amsinckia retrorsa	Rigid fiddleneck	UPL
Anthemis cotula	Mayweed	FACU
Anthriscus caucalis	Bur-chervil	UPL
Avena barbata	Slender wild oat	UPL
Avena fatua	Wild oat	UPL
Baccharis pilularis	Coyote brush	UPL
Bidens frondosa	Sticktight	FACW
Brassica nigra	Black mustard	UPL
Briza minor	Annual quaking grass	FAC
Bromus diandrus	Ripgut brome	UPL
Bromus hordeaceus	Soft chess	FACU
Bromus rubens	Red brome	UPL
Bromus sterilis	Sterile brome	UPL
Bromus tectorum	Cheat grass, downy chess	UPL
Calandrinia menziesii	Red maids	FACU
Capsella bursa-pastoris	Shepherd's purse	FACU
Carduus pycnocephalus subsp. pycnocephalus	Italian thistle	UPL
Castilleja attenuate	Valley tassels	UPL
Centaurea solstitialis	Yellow star-thistle	UPL
Centromadia fitchii	Fitch's spikeweed	FACU
Cerastium glomeratum	Sticky mouse-ear chickweed	UPL
Chondrilla juncea	Skeleton weed	UPL
Cichorium intybus	Chicory	FACU
Cirsium vulgare	Bull thistle	FACU
Claytonia perfoliata subsp. perfoliata	Miner's lettuce	FAC
Conium maculatum	Poison hemlock	FACW
Convolvulus arvensis	Field bindweed	UPL
Crassula tillaea	Moss pygmyweed	FACU
Croton setiger	Turkey mullein	UPL
Crypsis schoenoides	Swamp grass	FACW
Cupressus sempervirens	Mediterranean cypress	UPL

Plant List Carmenere Estates

Cynodon dactylon	Bermuda grass	FACU
Cynosurus echinatus	Hedgehog grass	UPL
Cyperus eragrostis	Tall nutsedge	FACW
Digitaria sanguinalis	Hairy crab grass	FACU
Diospyros virginiana	Common persimmon	FAC
Dittrichia graveolens	Stinkwort	UPL
Eleocharis acicularis	Needle spikerush	OBL
Elymus caput-medusae	Medusa head	UPL
Epilobium brachycarpum	Panicled willowherb	FAC
Epilobium ciliatum	Slender willow herb	FACW
Erigeron bonariensis	Flax-leaved horseweed	FACU
Erodium cicutarium	Redstem filaree	UPL
Erodium moschatum	Greenstem filaree	UPL
Erythranthe guttata	Common monkeyflower	OBL
Eschscholzia californica	California poppy	UPL
Eucalyptus camaldulensis	River red gum	FAC
Festuca arundinacea	Tall fescue	UPL
Festuca bromoides	Brome fescue	FACU
Festuca microstachys	Small fescue	UPL
Festuca myuros	Rattail sixweeks grass	FACU
Festuca perennis	Rye grass	FAC
Fraxinus latifolia	Oregon ash	FACW
Fraxinus pennsylvanica	Green ash	FACW
Galium aparine	Sticky willy	FACU
Geranium dissectum	Cut-leaf geranium	UPL
Glyceria declinate	Low manna grass	FACW
Hordeum marinum	Mediterranean barley	FAC
Hordeum murinum	Wall barley	FACU
Hypochaeris glabra	Smooth cat's-ear	UPL
Hypochaeris radicata	Rough cat's ear	FACU
Juglans sp.	Walnut	-
Juncus balticus subsp. ater	Baltic rush	FACW
Juncus bufonius	Toad rush	FACW
Juncus usitatus	Australian rush	FACW
Juniperus sp.	Juniper	FACU
Lactuca serriola	Prickly lettuce	FACU
Leersia oryzoides	Rice cutgrass	OBL
Leontodon saxatilis	Hairy hawkbit	FACU
Logfia gallica	Daggerleaf cottonrose	UPL
Lotus corniculatus	Bird's-foot trefoil	FAC
Ludwigia peploides	Floating primrose willow	OBL
Lupinus bicolor	Miniature lupine	UPL
Lupinus nanus	Valley sky lupine	UPL

Lysimachia arvensis	Scarlet pimpernel	FAC
Lythrum hyssopifolia	Hyssop loosestrife	OBL
Madia elegans	Common madia	UPL
Malva neglecta	Common mallow	UPL
Malva nicaeensis	Bull mallow	UPL
Matricaria discoidea	Pineapple weed	FACU
Medicago lupulina	Black medick	FAC
Mentha pulegium	Pennyroyal	OBL
Montia fontana	Water chickweed, blinks	OBL
Myriophyllum aquaticum	Parrot's feather	OBL
Nasturtium officinale	Water cress	OBL
Nicotiana acuminata	Manyflower tobacco	UPL
Olea europaea	Olive	UPL
Parentucellia viscosa	Yellow glandweed	FAC
Paspalum dilatatum	Dallis grass	FAC
Persicaria hydropiper	Waterpepper	OBL
Persicaria lapathifolia	Common knotweed	FACW
Petrorhagia dubia	Hairypink	NL
Phoenix canariensis	Canary island date palm	UPL
Phytolacca americana	Poke weed	FAC
Pinus sabiniana	Grey pine	UPL
Plagiobothrys nothofulvus	Rusty popcornflower	FAC
Plantago lanceolata	English plantain	FAC
Plantago major	Common plantain	FAC
Platanus racemosa	California sycamore	FAC
Poa annua	Annual blue grass	FAC
Poa palustris	Fowl bluegrass	FAC
Poa pratensis	Kentucky blue grass	FAC
Polygonum aviculare subsp. depressum	Prostrate knotweed	FAC
Polypogon monspeliensis	Rabbitsfoot grass	FACW
Populus alba	White poplar	-
Populus fremontii	Fremont cottonwood	FAC
Portulaca oleracea	Common purslane	FAC
Proboscidea louisianica	Common devil's claw	FACU
Punica granatum	Pomegranate	UPL
Pyrus sp.	Pear tree	UNK
Quercus douglasii	Blue oak	UPL
Quercus lobata	Valley oak	FACU
Quercus wislizeni	Interior live oak	UPL
Ranunculus bonariensis var. trisepalus	Vernal pool buttercup	OBL
Ranunculus californicus	California buttercup	FACU
Ranunculus muricatus	Spiny-fruit buttercup	FACW
Robinia pseudoacaria	Black locust	FACU

FAC Rubus armeniacus Armenian blackberry **FACU** Rumex acetosella Sheep sorrel Curly dock FAC Rumex crispus Rumex pulcher Fiddle dock FAC Salix exigua Sandbar willow **FACW** Goodding's black willow **FACW** Salix gooddingii Salix laevigata Red willow **FACW** Salix lasiolepis Arroyo willow **FACW FACU** Sambucus nigra Black elderberry Senecio vulgaris Common groundsel **FACU** UPL Silybum marianum Milk thistle UPL Sisymbrium officinale Hedge mustard **FACU** Sonchus arvensis Perennial sow thistle Sorghum halepense **FACU** Johnson grass Spergula arvensis Corn spurrey UPL Spergularia rubra Red sand-spurrey FAC Stellaria media Common chickweed **FACU** Torilis arvensis Tall sock-destroyer UPL Toxicodendron diversilobum **FACU** Poison oak Trifolium ciliolatum Foothill clover UPL UPL Trifolium dubium Little hop clover Trifolium eriocephalum subsp. eriocephalum Hairy head clover **FAC** UPL *Trifolium glomeratum* Clustered clover Trifolium hirtum Rose clover UPL Trifolium hybridum Alsike clover **FAC** Trifolium incarnatum Crimson clover UPL **UPL** Trifolium subterraneum Subterranean clover Yellow owl's clover NLTriphysaria versicolor Typha sp. Cattail OBL Dwarf nettle FAC Urtica urens UPL Verbascum Blattaria Moth mullein Verbascum Thapsus Woolly mullein **FACU** OBL Veronica anagallis-aquatica Water speedwell Veronica peregrina Purslane speedwell FAC FAC Veronica persica Persian speedwell **FACU** Vicia sativa Spring vetch Xanthium strumarium Rough cocklebur **FAC**

Attachment D

JD Request Form



Intermittent Drainage ID-1 – 25 April 2023



Data Point DP-21 - 17 October 2018



Data Point DP-22 (within SWS-5) - 17 October 2018



Data Point DP-23 - 17 October 2018



Data point DP-24 (within Pond-1) - 17 October 2018



Facing southeast at seasonal wetland swale SWS-2 and Data point DP-14 and DP-1 – 19 July 2023



Data point DP-25 – 18 October 2018



Data point DP-26 (within PD-3) – 18 October 2018



Ungrazed parcel in the northeast portion of the Study Area, facing west – 16 October 2018



Grazed annual brome grassland, facing east – 16 October 2018



Riparian corridor along Antelope Creek, facing northwest – 16 October 2018



Remnant orchard, facing southeast – 18 October 2018



Oak savanna in the center of the Study Area, facing northwest – 18 October 2018



Seasonal wetland swale (SWS-7), facing southwest – 17 October 2018



Roadside ditch RD-1 facing south along Delmar Avenue – 19 July 2023



Antelope Creek (PD-3), facing northeast – 18 October 2018



Perennial drainage PD-1, facing south – 19 July 2023