

Aquatic Resources Delineation Report

Silver Eagle 6
Sacramento, CA

Sacramento County, California December 2017

Prepared for:

John Griffin Del Paso Homes, Inc. 4120 Douglas Blvd. #306-375 Granite Bay, CA 95746

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1.0 INTRODUCTION

This report presents the results of a delineation of aquatic resources within the Silver Eagle 6 Property (Study Area) conducted by Madrone Ecological Consulting, LLC (Madrone). The approximately 7-acre Study Area is located in the City of Sacramento, south of Silver Eagle Road, north of Ford Road, and east of Western Avenue (Figure 1). The Study Area is located in Del Paso Land Grant, in Township 9 North, Range 5 East (MDB&M) of the "Rio Linda, California" 7.5-Minute Series USGS Topographic Quadrangle (USGS 2013) (Figure 1).

1.1 Contact Information

Property Owner

John Griffin Del Paso Homes, Inc. 4120 Douglas Blvd. #306-375 Granite Bay, CA 95746

Agent

Ben Watson Madrone Ecological Consulting, LLC 8421 Auburn Blvd., Suite #248 Citrus Heights, CA 95610

2.0 METHODOLOGY

Madrone senior biologist Bonnie Peterson conducted a delineation of aquatic resources within the Study Area on 7 December 2017. 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 overlayed on an ortho-rectified aerial photograph (NAIP 2016).

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* (Lichvar et al. 2016) was used to determine the wetland indicator status of plants observed in the Study Area. The *Jepson eFlora* (Jepson Flora Project 2017) was used for plant nomenclature, except where it conflicted with the nomenclature in the *National Wetland Plant List*, which was given priority on the data sheets.

3.0 EXISTING CONDITIONS

The Study Area is a vacant lot that is disked annually. Surrounding land use includes existing medium density residential to the south, residential and undeveloped fallow fields to the north and east, and a regional bike trail, railroad, and Steelhead Creek riparian corridor to the west. The Study Area is relatively flat with elevation ranges of 25-35 feet above mean sea level, sloping gently towards a now defunct drainage bisecting the site from the northeast corner to southwest. Surrounding properties to the north and east are rural residential with low density single family homes to the south.

A review of historic aerials indicate that the majority of the Study Area has been vacant since before 1947. The northwestern corner of the site contained a building and storage yard installed before 1964 and removed before 1993 when the San Juan Road overpass was installed through the former building site.

Existing vegetation within the Study Area includes non-native annual grasses and forbs including immature brome (*Bromus* sp.) and oat (*Avena* sp.), johnsongrass (*Sorghum halepense*), prickly lettuce (*Lactuca serriola*), turkey mullen (*Croton setiger*), Bermuda grass (*Cynodon dactylon*) and alkali mallow (*Malvella leprosa*) with a grove of blue oak (*Quercus douglassii*) and interior live oak (*Q. wislizenii*) located in the southeast corner. A remnant drainage channel bisects the Study Area and vegetation includes tall nutsedge (*Cyperus eragrostis*), Italian rygrass (*Festuca perennis*), and hyssop loosestrife (*Lythrum hyssopifolia*). The channel no longer appears to flow continuously through the Study Area, and is now functioning as a seasonal wetland.

3.1 Hydrology

Surface water in the Study Area is driven by storm water runoff. A defunct drainage channel bisects the Study Area draining from the northeast corner to the southwest corner of the site and while the channel contains isolated areas of ponding both the upstream and downstream culvert where pugged with sediment and trash and there is no evidence of significant run-on or run-off from the Study Area. The Study Area is located in the *Steelhead Creek* Watershed (HUC 1802011103) (USGS 1978).

3.2 Soils

According to the Natural Resources Conservation Service (NRCS) Soil Survey Database (NRCS 2017), three soil mapping units occur within the Study Area (**Figure 2**): (161) Jacktone clay, drained, 0 to 2% slopes: (211) San Joaquin fine sandy loam, 0 to 3% slopes; and (220) San Joaquin-Urban land complex, 0 to 3 % slopes. Jacktone clay is listed by the NRCS as a hydric soil (NRCS 2017), as well as a nonsaline to very slightly saline soil. The San Joaquin soils are not listed as hydric, nor do they typically contain hydric minor components.

3.3 Driving Directions

To access the Study Area from Downtown Sacramento, drive north on Interstate 5 to interstate 80 east towards Reno. Take Exit 89, to south on Northgate Blvd. Turn left (east) on San Juan Rd and proceed until San Juan Road turns into Silver Eagle Road and the Study Area will be on your right. Study Area is at approximately 60 Silver Eagle Rd, Sacramento, CA 95838.

4.0 RESULTS

Only one aquatic resource feature, a 0.111 acre remnant seasonal wetland swale, was delineated within the Study Area. A number of data points were collected due to the presence of a salt crust throughout the entire site and evidence of a historic swale (seasonal wetland swale). Data sheets are included in **Attachment A**, a map of the aquatic resource is included as **Attachment B**, and a list of the plant species observed in the Study Area with their wetland indicator status is included in **Attachment C**. Representative site photographs are included in **Attachment D**. GIS Shapefiles and the *Aquatic Resources Excel Spreadsheet* for the aquatic resource shown on **Attachment B** are included on a CD in **Attachment E**.

Due to the areal signature of the channel, as well as biotic crust and low vegetative cover throughout the Study Area a number of suspect data points where collected. Data points DP1, DP-2, DP-3, DP-5, and DP-6 all exhibited one wetland indicator, typically hydrology in the form of a biotic crust or salt crust, but lacked the three criteria necessary to meet the wetland delineation criteria. Data sheets and photographs are included for these points in Attachment A and D.

4.1 Seasonal Wetland Swale

The seasonal wetland swale is the remnant of a drainage features that previously flowed from the northeast to the southwest corner through the Study Area. The upstream culvert is partially blocked with sediment and the upstream watershed is limited to roadside drainage from Silver Eagle Road. The feature exhibits seasonal ponding near the upstream culvert and is minimally vegetated with tall nutsedge, Italian rygrass, and hyssop loosestrife. No evidence of scour or ordinary high water mark where observed, and hydrology indicators included biotic crust and oxidized rhyzospheres. Data point DP-04 was representative of the soils within the seasonal wetland swale, which exhibited a depleted matrix (F3) hydric soil indicator. From 0-2 inches soils exhibited a matrix color of 10 yr 4/2. From 2-16 inches soils where clay with a soil matrix of 2.5 5/1 with 5% redox concentration (5 yr 2.5/1) in the matrix.

5.0 CONCLUSION

The applicant is requesting a Preliminary Jurisdictional Determination for the Aquatic Resources Delineation map included as **Attachment B**. A signed statement providing USACE staff accompanied access to the Study Area is included as **Attachment F**.

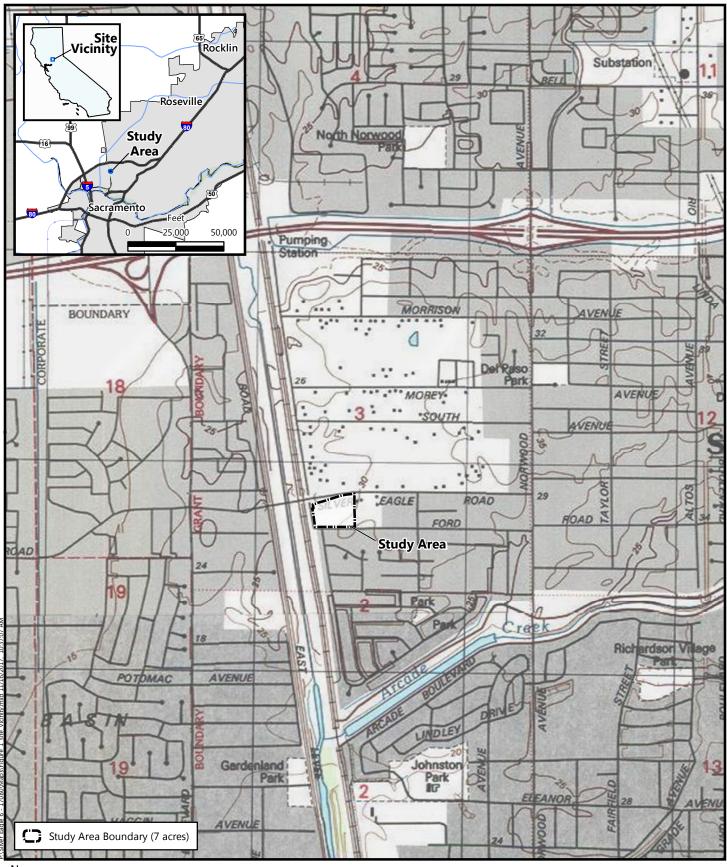
6.0 REFERENCES

- Environmental Laboratory. 1987. *Corps of Engineers Wetlands Delineation Manual.* Technical Report Y-87-1, U.S. Army Engineer Waterways Experiment Station. Vicksburg, Miss.
- Jepson Flora Project (eds.) 2017. *Jepson eFlora*. Available on-line at: http://ucjeps.berkeley.edu/eflora/ [accessed November through December 2017]
- Lichvar, R.W., D.L. Banks, W.N. Kirchner, and N.C. Melvin. 2016. *The National Wetland Plant List: 2016 Wetland Ratings*. Phytoneuron 2016-30: 1-17. Published 28 April 2016. ISSN 2153 733X.
- National Agricultural Imagery Program (NAIP). 2015. *Aerial Photograph of the Study Area*. Dated 21 June 2016.
- Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture (NRCS). 2017. *Web Soil Survey*. Available online at http://websoilsurvey.nrcs.usda.gov/. Accessed November through December 2017.
- U.S. Army Corps of Engineers (USACE). 2016a. *Updated Map and Drawing Standards for the South Pacific Division Regulatory Program*. Dated February 10, 2016. Available online at: http://www.spd.usace.army.mil/Missions/Regulatory/Public-Notices-and-References/Article/651327/updated-map-and-drawing-standards/
- U.S. Army Corps of Engineers (USACE). 2016b. *Minimum Standards for Acceptance of Aquatic Resources Delineation Reports*. U.S. Army Corps of Engineers, Sacramento District. Dated January 2016. Available online at: http://www.spk.usace.army.mil/Portals/12/documents/regulatory/jd/minimum-standards/Minimum_Standards_for_Delineation_with_Template-final.pdf
- U.S. Army Corps of Engineers (USACE). 2008a. *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0)*, ed. J. S. Wakeley, R. W. Lichvar, and C. V. Noble. ERDC/EL TR-08-28. Vicksburg, MS: U.S. Army Engineer Research and Development Center.
- U.S. Army Corps of Engineers (USACE). 2008b. *A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States. A Delineation Manual*. Prepared by R. W. Lichvar and S. M. McColley. ERDC/CRREL TR-08-12. Cold Regions Research and Engineering Laboratory.
- U.S. Department of the Interior, Geological Survey (USGS). 1978. *Hydrologic Unit Map, State of California*. Geological Survey. Reston, Virginia.
- U.S. Department of the Interior, Geological Survey (USGS). 2013. *Rio Linda, California* 7.5-minute Quadrangle. Geological Survey. Denver, Colorado.

Figures

Figure 1. Vicinity Map

Figure 2. Natural Resources Conservation Service Soils





Source: United States Geologic Survey, 2013. "Rio Linda, California" 7.5-Minute Topographic Quadrangle Del Paso Land Grant Township 9 North, Range 5 East Longitude -121.458757, Latitude 38.602914

Figure 1 Site and Vicinity







Figure 2 Natural Resources Conservation Service Soils



Attachments

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Attachment A

Arid West Wetland Determination Data Forms

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site:	Silver Eagle 6			City/County:	Sacrament	to, Sacram	ento		Sam	pling Date:		12/06/17
Applicant/Owner:	Del Paso Homes,	Inc					State: C	A	Sam	pling Point:	DP-01	
Investigator(s):	Bonnie Peterson			Section	n, Township	, Range:	Del Paso	Land Gra	∩t, Tow	nship 9N, R	ange 5E	
Landform (hillslop	e, terrace, etc.):	valley floor		Local re	elief (concav	e, convex,	none): co	ncave		Slop	e (%):	3
Subregion (LRR):	Mediterranean Cal	ifornia (LRR C)	Lat:		38	3.628851	Long:		-121.4	168815	Datum: NA	AD 83
Soil Map Unit Nan	ne: Jacktone C	lay, drained, 0-2%	slopes				NWI Class	ification:	none			
Are climatic / hydr	rologic conditions or	n the site typical fo	r this time of	year?	Yes		No	_		explain in Re	marks.)	
Are Vegetation	X, Soil	, or Hydrology		significantly	disturbed?	Are "N	ormal Circ			ent? Yes		5
	, Soil									Remarks.)		
	FINDINGS - A		·			cations,	transec	ts, impo	rtant	features,	etc.	
Hydrophytic Vege	tation Present?	Yes N	lo X									
Hydric Soil Preser	nt?	Yes N	lo X		ampled Area a Wetland?	a	Yes		No	X		
Wetland Hydrolog	y Present?	Yes X	lo	Within	· Wetland:						-	
	ked in the past, how		·	esent was de	ad and matt	ed indicati	ng growth	post diski	ng.			
VEGETATION	- OSC SCICITUM	ic names of pr		Dominant	Indicator	Dominar	noo Tost i	workshee				
- 0, ,	(5)	,	Absolute % Cover	Dominant Species?	Indicator Status			nt Species				
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2							mber of Do Across All			4	(B	.)
3									_		(D	,
T			0	=Total Cove	r			nt Species CW, or FA		0%	(A	/B)
Sanling/Shruh	Stratum (Plot size:)				Prevaler	ce Index	Workshe	et·			
	Citataini (1 lot 3126.	ŕ					al % Cove			Multiply b	ıV.	
2.						OBL spec			x1 =	0).	
3.			-			FACW sp			x2 =	0		
4.			-			FAC spec			x3 =	0		
5.						FACU sp			x4 =	8		
			0	=Total Cove	r	UPL spec	cies	6	x5 =	30		
Herb Stratum	(Plot size:)				Column 7	Totals:	8	(A)	38	(B	5)
1. Convolvulou	s arvensis		2	у	UPL	Prevale	ence Inde	x = B/A =		4.8		
2. Salsola tragi	us		2	У	UPL			_				
3. Cichorium in	itybus		2	у	UPL	Hydroph	ytic Vege	tation Inc	licator	s:		
4. Sorghum ha	lepense		2	У	FACU			ce Test is				
5							Prevalend	ce Index is	≤3.0 ¹			
6										¹ (Provide su		
										eparate shee	•	
8							Problema	itic Hydrop	hytic V	egetation ¹ (E	∃xplain)	
	ratum (Plot size: _		8	=Total Cove	r			c soil and disturbed		d hydrology r olematic.	nust	
0						Hydroph	untic					
	d in Herb Stratum	82	% Cover of	=Total Cove	r 10*	Vegetation Present?	on		Yes	No	X	
Remarks: *biotic	crust may be salt c	rust		-	-							

SOIL Sampling Point: DP-01

Depth	Matrix		Red	dox Feat	ures				
(inches)		% Colo	r (moist)	%	Type ¹	Loc ²	- Texture	9	Remarks
0-16		100			71-		CL		
							-		
	- 								
							-		
							-		
						1		<u> </u>	
¹Type: C=C	Concentration, D=Depletion, R	RM=Reduced N	Matrix, CS=Co	overed or	Coated Sar	nd Grains	. ² Location: F	PL=Pore Lining, M	=Matrix.
Hydric So	oil Indicators: (Applicable	e to all LRRs	. unless ot	herwise	noted.)		Indicators	for Problemati	ic Hydric Soils ³ :
-	osol (A1)			Redox (S	-			Muck (A9) (LRF	•
	c Epipedon (A2)			l Matrix (Muck (A10) (LR	
	k Histic (A3)	_			ineral (F1)			iced Vertic (F18)	
	ogen Sulfide (A4)	_		-	fatrix (F2)			Parent Material	
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	k Dark Surface (A12)			Depression		,			
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	re Layer (if present):							unicoo diotai	bed of problematic.
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Wetland F	Hydrology Indicators:								
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Wetland F Primary In Surfa High Satur Wate Sedir Drift Surfa Inunc Wate Field Obs	Hydrology Indicators: Indicators (minimum of one race Water (A1) Water Table (A2) Indicators (Monriverine Marks (B1) (Nonriverine Ment Deposits (B2) (Nonriverine Marks (B3) (Nonriverine Marks (B6) (Monriverine Marks (B9) (Monriverine Marks (B1) (Monriverine Marks (Monriver	e)	Salt Cru Aquatic Hydroge Oxidized Presend Recent Thin Mu Other (E x Depth x Depth	st (B11) rust (B12 Inverteb en Sulfide d Rhizos ee of Rec Iron Red ick Surfa Explain in	rates (B13) e Odor (C1) pheres alou duced Iron uction in T ce (C7) n Remarks)) ng Living (C4) illed Soil:	s (C6)	Water Ma Sediment Drift Depo Drainage Dry-Seaso Crayfish E Saturation Shallow A	rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Patterns (B10) on Water Table (C2) surrows (C8) I Visible on Aerial Imagery (C) quitard (D3) ral Test (D5)
Wetland F Primary In Surfa High Satur Wate Sedir Drift Surfa Inunc Wate Field Obs Surface W Water Tab Saturation (includes of	Hydrology Indicators: Indicators (minimum of one race Water (A1) Water Table (A2) Iration (A3) Iration (A3) Iration (B1) (Nonriverine ment Deposits (B2) (Nonriverine ace Soil Cracks (B6) Idation Visible on Aerial Imager-Stained Leaves (B9) Iservations: Vater Present? Iration (Present) Iration (Prese	e)	Salt Cru Aquatic Hydroge Oxidized Presend Recent Thin Mu Other (E x Depth x Depth	st (B11) rust (B12) Inverteb en Sulfide d Rhizos lee of Rec Iron Red lock Surfa explain in (inches) (inches)	rates (B13) e Odor (C1) pheres alor duced Iron uction in T ce (C7) n Remarks) :) ng Living (C4) illed Soil:	s (C6) Wetland H	Water Ma Sediment Drift Depo Drainage Dry-Seasc Crayfish E Saturation Shallow A FAC-Neut	rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Patterns (B10) on Water Table (C2) surrows (C8) I Visible on Aerial Imagery (C) quitard (D3) ral Test (D5)
Wetland F Primary In Surfa High Satur Wate Sedir Drift Surfa Inunc Wate Field Obs Surface W Water Tab Saturation (includes of	Hydrology Indicators: Indicators (minimum of one race Water (A1) Water Table (A2) Iration (A3) Iration (A3) Iration (B1) (Nonriverine ment Deposits (B2) (Nonriverine ace Soil Cracks (B6) Idation Visible on Aerial Imager-Stained Leaves (B9) Indicators: Irational Manager Stained Leaves (B9) Irationa	e)	Salt Cru Aquatic Hydroge Oxidized Presend Recent Thin Mu Other (E x Depth x Depth	st (B11) rust (B12) Inverteb en Sulfide d Rhizos lee of Rec Iron Red lock Surfa explain in (inches) (inches)	rates (B13) e Odor (C1) pheres alor duced Iron uction in T ce (C7) n Remarks) :) ng Living (C4) illed Soil:	s (C6) Wetland H	Water Ma Sediment Drift Depo Drainage Dry-Seasc Crayfish E Saturation Shallow A FAC-Neut	rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Patterns (B10) on Water Table (C2) surrows (C8) I Visible on Aerial Imagery (C) quitard (D3) ral Test (D5)
Wetland F Primary In Surfa High Satur Wate Sedir Drift Surfa Inunc Wate Field Obs Surface W Water Tab Saturation (includes of	Hydrology Indicators: Indicators (minimum of one race Water (A1) Water Table (A2) Iration (A3) Iration (A3) Iration (B1) (Nonriverine ment Deposits (B2) (Nonriverine ace Soil Cracks (B6) Idation Visible on Aerial Imager-Stained Leaves (B9) Iservations: Vater Present? Iration (Present) Iration (Prese	e)	Salt Cru Aquatic Hydroge Oxidized Presend Recent Thin Mu Other (E x Depth x Depth	st (B11) rust (B12) Inverteb en Sulfide d Rhizos lee of Rec Iron Red lock Surfa explain in (inches) (inches)	rates (B13) e Odor (C1) pheres alor duced Iron uction in T ce (C7) n Remarks) :) ng Living (C4) illed Soil:	s (C6) Wetland H	Water Ma Sediment Drift Depo Drainage Dry-Seasc Crayfish E Saturation Shallow A FAC-Neut	rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Patterns (B10) on Water Table (C2) surrows (C8) I Visible on Aerial Imagery (C) quitard (D3) ral Test (D5)
Primary In Surfa High Satur Wate Sedir Drift Surfa Inunc Wate Field Obs Surface W Water Tab Saturation (includes cescribe Re	Hydrology Indicators: Indicators (minimum of one race Water (A1) Water Table (A2) Iration (A3) Iration (A3) Iration (B1) (Nonriverine ment Deposits (B2) (Nonriverine ace Soil Cracks (B6) Idation Visible on Aerial Imager-Stained Leaves (B9) Iservations: Vater Present? Iration (Present) Iration (Prese	e)	Salt Cru Aquatic Hydroge Oxidized Presend Recent Thin Mu Other (E x Depth x Depth	st (B11) rust (B12) Inverteb en Sulfide d Rhizos lee of Rec Iron Red lock Surfa explain in (inches) (inches)	rates (B13) e Odor (C1) pheres alor duced Iron uction in T ce (C7) n Remarks) :) ng Living (C4) illed Soil:	s (C6) Wetland H	Water Ma Sediment Drift Depo Drainage Dry-Seasc Crayfish E Saturation Shallow A FAC-Neut	rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Patterns (B10) on Water Table (C2) surrows (C8) I Visible on Aerial Imagery (C) quitard (D3) ral Test (D5)
Primary In Surfa High Satur Wate Sedir Drift Surfa Inunc Wate Field Obs Surface W Water Tab Saturation (includes cescribe Re	Hydrology Indicators: Indicators (minimum of one race Water (A1) Water Table (A2) Iration (A3) Iration (A3) Iration (B1) (Nonriverine ment Deposits (B2) (Nonriverine ace Soil Cracks (B6) Idation Visible on Aerial Imager-Stained Leaves (B9) Iservations: Vater Present? Iration (Present) Iration (Prese	e)	Salt Cru Aquatic Hydroge Oxidized Presend Recent Thin Mu Other (E x Depth x Depth	st (B11) rust (B12) Inverteb en Sulfide d Rhizos lee of Rec Iron Red lock Surfa explain in (inches) (inches)	rates (B13) e Odor (C1) pheres alor duced Iron uction in T ce (C7) n Remarks) :) ng Living (C4) illed Soil:	s (C6) Wetland H	Water Ma Sediment Drift Depo Drainage Dry-Seasc Crayfish E Saturation Shallow A FAC-Neut	rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) (Riverine) Patterns (B10) on Water Table (C2) surrows (C8) I Visible on Aerial Imagery (C) quitard (D3) ral Test (D5)

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site:	Silver E	Eagle 6			City/County:	Sacrament	to, Sacramento	Sampling Date	e: 12/06/17		
Applicant/Owner: Del Paso Homes, Inc					State: CA Sampling Point: DP-02						
Investigator(s):	Bonnie	Peterson			Sectio	n, Township	, Range: Del Paso Land (
Landform (hillslop	e, terrac	ce, etc.):	valley floor	-	 Local re	elief (concav	e, convex, none): concave	s SI	ope (%): <1		
Subregion (LRR):	Medite	rranean Cal	ifornia (LRR (C) Lat	_			-121.468829	Datum: NAD 83		
Soil Map Unit Nan			lay, drained,						<u></u>		
Are climatic / hydr						Yes		(If no, explain in	Remarks.)		
Are Vegetation	Χ	, Soil	, or Hydrol	ogy		_					
Are Vegetation				ogy			(If needed, explain any	answers in Remarks	s.)		
											
SUMMARY OF	FIND	INGS – A	Attach site	map showin	g sampling	g point lo	cations, transects, im	portant features	s, etc.		
Hydrophytic Vege	tation Pi	resent?	Yes	No	lo the C	amanlad Aras	_				
Hydric Soil Preser	nt?		Yes	No		ampled Area a Wetland?	Yes	No	<u></u>		
Wetland Hydrolog	y Prese	nt?	Yes	No	_	a Trotiana i					
indicating growth				f. where to							
VEGETATION	- Use	scientifi	c names o	f plants.							
				Absolute	Dominant	Indicator	Dominance Test worksh				
Tree Stratum	(Plot size	ze:) % Cover	Species?	Status	Number of Dominant Spe That Are OBL, FACW, or				
1							That Are OBL, FACW, Or	<u>0</u>	(A)		
2							Total Number of Dominar				
3							Species Across All Strata	2	(B)		
4				0	Total Cove		Percent of Dominant Spe That Are OBL, FACW, or		(A/B)		
0 - 1 - 70 - 1	011	(District					Barrelon and the law West	-1 - 4			
Sapling/Shrub	Stratum	(Plot size:)			Prevalence Index Works		h		
1							Total % Cover of: OBL species 0		y by:		
2							OBL species 0 FACW species 0	x1 = 0 x2 = 0	•		
٥. م					_		FAC species 0				
5.							FACU species 10	x4 = 40			
o				0	=Total Cove	r	UPL species 5	x5 = 25			
Herb Stratum	(Plot si	ze:)	_		Column Totals: 15	(A) 65	(B)		
1. Malvella lepi				[^] 10	У	FACU	Prevalence Index = B/A				
2. Salsola tragi				5		UPL					
3. Unk . Grass				15	у		Hydrophytic Vegetation	Indicators:			
4							Dominance Tes	t is >50%			
5							Prevalence Inde	exis ≤3.0 ¹			
6							Morphological A	daptationd1 (Provide	supporting		
7					_			s or on a separate sh			
8							Problematic Hyd	drophytic Vegetation	¹ (Explain)		
				30	_=Total Cove	r					
Woody Vine St							¹ Indicators of hydric soil a		y must		
1							be present, unless disturb	bed of problematic.			
2					Tatal Caus		Hydrophytic				
% Bare Ground	lin ∐ork	Stratum	55	% Cover of	_=Total Cove Biotic Crust		Vegetation Present?	Vos I	No V		
			-			10	Present?	YesI	No <u>X</u>		
Remarks: No live	grasses	, grasses a	re matted With	i no remaining s	eeu neads.						

SOIL Sampling Point: DP-02

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Silver Eagle 6						City/County: Sacramento, Sacramento Sampling Date: 12						12/06/17
Applicant/Owner: Del Paso Homes, Inc					State: CA Sampling Point: DP-03							
Investigator(s):	Bonnie	Peterson				Section	n, Township	, Range:	Del Paso Land		-	
Landform (hillslop	e, terrac	ce, etc.):	valley f	floor		_		_	none): conca			
Subregion (LRR):	Medite	ranean Cali	fornia (LF	RR C)	Lat:				Long:			Datum: NAD 83
Soil Map Unit Nar	me:	Jacktone Cl	ay, drain	ed, 0-2%	 '				WI Classificat			
Are climatic / hyd											explain in Re	marks.)
	-						_			tances" pre	sent? Yes	No X
Are Vegetation						naturally pro			ed, explain an			
SUMMARY OI	F FIND	INGS – A	ttach s	ite ma	p showing	sampling	point loc	cations, t	transects, i	mportant	: features, o	etc.
Hydrophytic Vege	tation P	resent?	Yes	Ν	No X	la dia Ga						
Hydric Soil Prese	nt?		Yes		ло х		ampled Area a Wetland?		Yes	No	X	
Wetland Hydrolog	gy Prese	nt?	Yes	X N	No	Within	· Wetland:					
dead and matted												here present was
VEGETATION	– Use	scientifi	c name	s of pl	ants.							
					Absolute	Dominant	Indicator	Dominan	ce Test work	sheet:		
Tree Stratum	(Plot size	ze:)	% Cover	Species?	Status		of Dominant S	•		
1.	,			· · ·				That Are	OBL, FACW,	or FAC:	0	(A)
2.				,				Total Nun	nber of Domin	ant		
3.								Species A	Across All Stra	ıta:	2	(B)
4								Percent o	of Dominant Sp	oecies		
					0	=Total Cove	r	That Are	OBL, FACW,	or FAC: _	0%	(A/B)
Sapling/Shrub	Stratum	(Plot size: _)					ce Index Wor			
1									I % Cover of:		Multiply b	<u>y:</u>
2								OBL spec				
3									ecies 0			
4. 5						. ———		FACU spec		x3 = _ x4 =		
J					0	=Total Cove			cies 0			
Herb Stratum	(Plot si	7e.)		- Total Cove	'		otals: 10			(B)
1. Malvella lepi				/	10	V	FACU		ence Index = B			(D)
2. unk. Grass					60							
3.								Hydrophy	ytic Vegetatio	on Indicato	rs:	
4									Dominance Te	est is >50%		
5.									Prevalence In	dex is ≤3.0	1	
6									Morphological	Adaptation	d ¹ (Provide sı	upporting
7									data in Remar			,
8									Problematic H	lydrophytic '	√egetation ¹ (E	Explain)
					70	=Total Cove	r					
Woody Vine St				•					s of hydric soi			nust
1								be preser	nt, unless distu	irbea or pro	biematic.	
2								Hydroph	•			
0/ Boro Croun	اسمالمئلم	Ctrotura		-		=Total Cove		Vegetation		Vaa	Na	v
% Bare Ground				<u> </u>		Biotic Crust	25	Present?	'	res_	No	X
Remarks: Dead d	iominate	, no living ve	getation	in draina	age							

SOIL Sampling Point: DP-03

Profile Des	scription: (Descri	be to the dep	th need	ed to do	cument	the indicat	tor or o	conf	irm the absence o	of indicators.)			
Depth	Matrix	[Re	dox Feat	ures							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	2	Texture		Remarks		
0-12	10yr 4/1	100							clay				
	· -												
	· -												
													_
1Type: C-C	oncentration, D=Dep	lotion PM-Pod	uood Mot	riv CS-C	overed or	Contod San	od Grain	2	Location: PL=Pore	Lining M-Matrix			
Type. C=C	oncentration, D=Dep	ielion, Rivi=Red	uceu iviai	iix, CS=C	overed or	Coaled Sar	iu Giaii	115.	Location. PL=Pore	Lining, ivi=iviatrix.			
Hydric Soi	il Indicators: (App	olicable to all	LRRs, ι	ınless ot	herwise	noted.)			Indicators for Pro	oblematic Hydric	Soils ³ :		
Histos	sol (A1)			Sandy F	Redox (S	5)		_	1 cm Muck (/	A9) (LRR C)			
Histic	Epipedon (A2)			Stripped	d Matrix (S6)		-		A10) (LRR B)			
	Histic (A3)			•		ineral (F1)		-	Reduced Ver				
	ogen Sulfide (A4)			-	-	latrix (F2)				Material (TF2)			
	fied Layers (A5) (L				d Matrix			-	Other (Explain	in in Remarks)			
	Muck (A9) (LRR D					ace (F6)							
	eted Below Dark Su					urface (F7))						
	Dark Surface (A12				Depressio					rs of hydrophytic			
	y Mucky Mineral (S y Gleyed Matrix (S4	•		veman	Pools (F9	')				nd hydrology mus ess disturbed or p		t,	
	Layer (if present	-					ı		unie	ss disturbed or p	TODIETTIALIC.		
	E Layer (II present)-											
Type: Depth (inch	200).							دار دا د	ic Soil Present?	Yes		No X	
								пуш	ic 30ii Fresent?	163		<u> </u>	_
Remarks: 12	and hard clay, sa	me color											
HYDROLOG													
	lydrology Indicato		مار مام مار	all that a	nnlu)				Cocon	dom la dioctora (2	0" moro roc	u irod)	
_	dicators (minimum	or one required	a, check		рріу) ıst (В11)					dary Indicators (2 /ater Marks (B1)		luirea)	
	ce Water (A1) Water Table (A2)				rust (B12)\				ediment Deposits		rino)	
	ation (A3)		<u> </u>			-) rates (B13)	١			rift Deposits (B3)	, , ,	iiie)	
	r Marks (B1) (Non i	iverine)				e Odor (C1	•			rainage Patterns	,		
	nent Deposits (B2)	•				pheres alor		na R		ry-Season Water	` '		
	Deposits (B3) (Non	. ,				luced Iron (-	9		rayfish Burrows (
	ce Soil Cracks (B6)	,				uction in Ti	. ,	oils (0		aturation Visible		agery (C9)	
	ation Visible on Ae		37)		ıck Surfa			(hallow Aquitard (
	r-Stained Leaves (l		, <u> </u>			Remarks))		—— F	AC-Neutral Test	(D5)		
Field Obse	ervations:				-								
Surface Wa	ater Present?	Yes I	No x	Depth	(inches)):							
Water Tabl	le Present?	Yes	No x	Depth	(inches)	:							
Saturation	Present?	Yes	No x	Depth	(inches)):		۷	Wetland Hydrolog	y Present?	Yes X	No	
	apillary fringe)												
Describe Rec	corded Data (strear	n gauge, moni	toring w	eii, aerial	photos,	previous in	spection	ons),	ıt available:				
Remarks:													

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site:	Silver Eagle 6				City/County:	Sacramen	to, Sacran	nento		_ Sam	ipling Da	ate:	12/07/17
Applicant/Owner:	Del Paso Homes, I	nc						State:	CA	Sam	ıpling Po	int: DP-	04
Investigator(s):	Bonnie Peterson				Section	n, Township	, Range:	Del Pa	so Land Gr	ant, Tow	nship 9l	N, Range	5E
Landform (hillslop	oe, terrace, etc.):	valley floo	or		Local re	lief (concav	e, convex	none):	concave			Slope (%): 2
Subregion (LRR)	: Mediterranean Cal	ifornia (LRR	C)	Lat:		38	3.630118	Long:		،121.	468829	Datur	m: NAD 83
Soil Map Unit Na	me: San Joaqui	ne fine sand	y loam	_					assification:				
Are climatic / hyd	rologic conditions or	the site typ	ical for	this time of	year?	Yes					explain ir	n Remark	(s.)
	, Soil					disturbed?	Are "N		Circumstand				
Are Vegetation	, Soil								olain any ar				
-	F FINDINGS – A						cations,	transe	ects, imp	ortant	featur	es, etc.	
Hydrophytic Vege	etation Present?	Yes X	K No										
Hydric Soil Prese		Yes X				mpled Are		Yes	Х	No			
Wetland Hydrolog		Yes X			within a	Wetland?							
	slope of outfall off of												
VEGETATION	I – Use scientifi	c names (of pla	 nts.									
				Absolute	Dominant	Indicator	Domina	nce Tes	st workshe	et:			
Troc Ctrotum	(Diet eizer		`	% Cover		Status			inant Speci				
	(Plot size:		.)		. ———				ACW, or F			1	(4)
1				-			Total Nu	mbor of	Dominant			<u>'</u>	(A)
2. 3.				-					All Strata:			2	(D)
3. 4.					. ———							<u> </u>	(B)
+				0	=Total Cover				nant Specie ACW, or F		5	0%	(A/B)
					-								`
	Stratum (Plot size:		_)						ex Worksh	eet:	B.4. 10		
1					. ———		-	al % Co		—		ply by:	_
					· ———		OBL spe		5	_x1 =		5	_
i contract of the contract of					. ———		FACW s	•	25	_x2 =		50	_
4					· ———		FAC spe		10	_x3 =		30	_
5					T. (.) O		FACU sp		25	_x4 =		00	_
Had Otas a	(DL. (. · ·		,	0	=Total Cover	ſ	UPL spe		0	_x5 =		0	— _(D)
	(Plot size:		_)	25	V	FACW	Column		65	_(A)		85	(B)
1. Cyperus era				25 25	<u> </u>	FACU	Prevai	ence in	dex = B/A =		2.8		_
2. Cynodon da				5		OLB	I la colo o co la						
3. <u>Lythrum hys</u> 4. Rumex crist	•			5	N	FAC	пуагорг	-	egetation Ir ance Test is		S:		
5. Lolium pere				5	N	FAC			ence Index				
						170							
					. ———				ological Ada Remarks o				rting
/									matic Hydro		•		vin)
o				65	Tatal Cause			FIUDIE	mane riyure	priyuc v	egetatio	п (Ехріа	.111)
	tratum (Plot size: _			03	=Total Cover				dric soil and				
							Hydroph	vtic					
					=Total Cover	r	Vegetati	-					
% Bare Groun	d in Herb Stratum	20	9	6 Cover of	Biotic Crust	15	Present			Yes	X	No	
Remarks:		-			<u>-</u>		<u>I</u>						

SOIL Sampling Point: DP-04

Fiolile Des	scription: (Describe to		ill needed to do					
Depth	Matrix		Re	dox Featu	ures			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2	10 yr 42/	100					Loamy clay	
2-16	2.5 5/1	95	5 yr 2.5/1	5	С	M	Clay	
¹ Type: C=C	oncentration, D=Depletion	, RM=Rec	luced Matrix, CS=C	overed or	Coated Sa	nd Grains.	² Location: PL=Pore L	ining, M=Matrix.
Hudria Sai	I Indicators: (Applica	blo to all	I DDs unless of	horwico	noted \		Indicators for Pro	blematic Hydric Soils ³ :
-	sol (A1)	DIE IO AII		Redox (S5	-			
	Epipedon (A2)			d Matrix (S			1 cm Muck (A 2 cm Muck (A	
	Histic (A3)			-	neral (F1)		Reduced Veri	
	ogen Sulfide (A4)			-	atrix (F2)		Red Parent M	
	fied Layers (A5) (LRR (;)		d Matrix (Other (Explain	n in Remarks)
	Muck (A9) (LRR D)			Dark Surfa		_		
	ted Below Dark Surface	e (A11)			urface (F7)		
	Dark Surface (A12)			Depressio	, ,		³ Indicator	s of hydrophytic vegetation and
	y Mucky Mineral (S1)		Vernal	Pools (F9))			d hydrology must be present,
Sandy	y Gleyed Matrix (S4)						unles	ss disturbed or problematic.
Restrictive	Layer (if present):							
Type: No	ne							
Depth (inch	nes):					Hy	dric Soil Present?	Yes X No
Remarks:								
HVDDOL OC	v							
HYDROLOG								
	ydrology Indicators:	o roquiro	d: chock all that a	nnly)				
	dicators (minimum of on	e require					Canand	on Indicators (2 or more required)
	ce Water (A1)							ary Indicators (2 or more required)
	Water Table (A2)			ıst (B11)	<u> </u>		W	ater Marks (B1) (Riverine)
	ation (A3)		X Biotic C	ıst (B11) rust (B12)		.	W Se	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine)
Water			X Biotic C	ıst (B11) rust (B12) Invertebr	ates (B13		W Se Dr	ater Marks (B1) (Riverine) Idiment Deposits (B2) (Riverine) Iff Deposits (B3) (Riverine)
	r Marks (B1) (Nonriver		X Biotic C Aquatic Hydrog	ist (B11) rust (B12) Invertebr en Sulfide	ates (B13 Odor (C1)	W Se Dr Dr	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10)
	nent Deposits (B2) (No	nriverine	X Biotic C Aquatic Hydrogo Oxidize	ist (B11) rust (B12) Invertebr en Sulfide d Rhizosp	ates (B13 Odor (C1 oheres alo	ng Living	W Se Dr Dr Roots (C3) Dr	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2)
Drift D	nent Deposits (B2) (No Deposits (B3) (Nonrive	nriverine	X Biotic C Aquatic Hydrog Oxidize Presence	rust (B11) rust (B12) Invertebren Sulfided Rhizospee of Redi	ates (B13 Odor (C1 oheres alo uced Iron	ng Living (C4)	W Se Dr Dr Cr	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8)
Drift D	nent Deposits (B2) (No	nriverine	X Biotic C Aquatic Hydrog Oxidize Presence	rust (B11) rust (B12) Invertebren Sulfided Rhizospee of Redi	ates (B13 Odor (C1 oheres alo	ng Living (C4)	W Se Dr Dr Cr Se (C6) Se Se Se Se Se Se Se S	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9)
Drift D	nent Deposits (B2) (No Deposits (B3) (Nonrive	nriverine ine)	X Biotic C Aquatic Hydrog Oxidize Present Recent	rust (B11) rust (B12) Invertebren Sulfided Rhizospee of Redi	ates (B13 Odor (C1 oheres alo uced Iron uction in T	ng Living (C4)	W Se Dr Dr Cr Se (C6) Se Se Se Se Se Se Se S	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8)
Drift D Surfac	nent Deposits (B2) (No Deposits (B3) (Nonrive ce Soil Cracks (B6)	nriverine ine)	X Biotic C Aquatic Hydrog Oxidize Present Recent Thin Mu	ust (B11) rust (B12) Invertebren Sulfide d Rhizospee of Redu Iron Redu	ates (B13 Odor (C1 oheres alo uced Iron uction in T	ng Living (C4) illed Soils	W Se Dr Dr Cr Sr Sr Sr Sr Sr Sr S	ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9)
Drift D Surfac	nent Deposits (B2) (Non Deposits (B3) (Nonriver ce Soil Cracks (B6) ation Visible on Aerial I r-Stained Leaves (B9)	nriverine ine)	X Biotic C Aquatic Hydrog Oxidize Present Recent Thin Mu	ust (B11) rust (B12) Invertebren Sulfide d Rhizospee of Redu Iron Redu	ates (B13 Odor (C1 oheres alo uced Iron uction in T ce (C7)	ng Living (C4) illed Soils	W Se Dr Dr Cr Sr Sr Sr Sr Sr Sr S	ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) aift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) atturation Visible on Aerial Imagery (C9) allow Aquitard (D3)
Drift D Surfac Inund: Water	nent Deposits (B2) (Non Deposits (B3) (Nonriver ce Soil Cracks (B6) ation Visible on Aerial I r-Stained Leaves (B9)	nriverine rine) magery (l	X Biotic C Aquatic Hydrog Oxidize Present Recent Thin Mo Other (I	ust (B11) rust (B12) Invertebren Sulfide d Rhizospee of Redu Iron Redu	ates (B13 Odor (C1 oheres alo uced Iron uction in T ce (C7) Remarks	ng Living (C4) illed Soils	W Se Dr Dr Cr Sr Sr Sr Sr Sr Sr S	ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) aift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) atturation Visible on Aerial Imagery (C9) allow Aquitard (D3)
Drift D Surfac Inund: Water	nent Deposits (B2) (Non Deposits (B3) (Nonriver ce Soil Cracks (B6) ation Visible on Aerial I r-Stained Leaves (B9) ervations:	nriverine ine) magery (I	X Biotic C Aquatic Hydrog Oxidize Present Recent Thin Mt Other (I	ust (B11) rust (B12) Invertebren Sulfide d Rhizospee of Redu Iron Redu uck Surface	ates (B13 Odor (C1 oheres alo uced Iron uction in T ce (C7) Remarks	ng Living (C4) illed Soils	W Se Dr Dr Cr Sr Sr Sr Sr Sr Sr S	ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) aift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) atturation Visible on Aerial Imagery (C9) allow Aquitard (D3)
Drift D Surface Inund: Water Field Obse	nent Deposits (B2) (Non Deposits (B3) (Nonriver Ce Soil Cracks (B6) Action Visible on Aerial I r-Stained Leaves (B9) Prvations: Atter Present? Yes Deposits (B2) (Non Provided Present)	nriverine ine) magery (I	X Biotic C Aquatic Hydrog Oxidize Present Recent Thin Mu Other (I	ust (B11) rust (B12) Invertebren Sulfide d Rhizospee of Redu Iron Redu uck Surface Explain in	ates (B13 Odor (C1 oheres alo uced Iron uction in T ce (C7) Remarks	ng Living (C4) illed Soils	W Se Dr Dr Cr Sr Sr Sr Sr Sr Sr S	ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) aift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) atturation Visible on Aerial Imagery (C9) allow Aquitard (D3) aC-Neutral Test (D5)
Drift D Surface Inund: Water Field Obset Surface Water Tabl Saturation (includes ca	nent Deposits (B2) (Non Deposits (B3) (Nonriver Ce Soil Cracks (B6) Action Visible on Aerial I r-Stained Leaves (B9) Prvations: Acter Present? Present? Present? Yes Present? Yes Apillary fringe)	nriverine rine) magery (l	X Biotic C Aquatic Hydrog Oxidize Present Recent Thin Mu Other (I No X Depth No X Depth No X Depth	rust (B11) rust (B12) Invertebren Sulfide d Rhizospice of Reduick Surface Explain in in (inches): in (inches):	ates (B13 Odor (C1 oheres alo uced Iron uction in T ce (C7) Remarks	ng Living (C4) iilled Soils	W W Se Dr Dr Cr Cr Sa Sr FA	ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) aift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) atturation Visible on Aerial Imagery (C9) allow Aquitard (D3) aC-Neutral Test (D5)
Drift D Surface Inund: Water Field Obset Surface Water Tabl Saturation (includes ca	nent Deposits (B2) (Non Deposits (B3) (Nonriver Ce Soil Cracks (B6) Action Visible on Aerial I r-Stained Leaves (B9) Prvations: Acter Present? Present? Yes Present? Yes	nriverine rine) magery (l	X Biotic C Aquatic Hydrog Oxidize Present Recent Thin Mu Other (I No X Depth No X Depth No X Depth	rust (B11) rust (B12) Invertebren Sulfide d Rhizospice of Reduick Surface Explain in in (inches): in (inches):	ates (B13 Odor (C1 oheres alo uced Iron uction in T ce (C7) Remarks	ng Living (C4) iilled Soils	W W Se Dr Dr Cr Cr Sa Sr FA	ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) aift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) atturation Visible on Aerial Imagery (C9) allow Aquitard (D3) aC-Neutral Test (D5)
Drift D Surface Inund: Water Field Obset Surface Water Tabl Saturation (includes ca	nent Deposits (B2) (Non Deposits (B3) (Nonriver Ce Soil Cracks (B6) Action Visible on Aerial I r-Stained Leaves (B9) Prvations: Acter Present? Present? Present? Yes Present? Yes Apillary fringe)	magery (I	X Biotic C Aquatic Hydrog Oxidize Present Recent Thin Mu Other (I No X Depth	rust (B11) rust (B12) Invertebren Sulfide d Rhizospice of Reduick Surface Explain in in (inches): in (inches):	ates (B13 Odor (C1 oheres alo uced Iron uction in T ce (C7) Remarks	ng Living (C4) iilled Soils	W W Se Dr Dr Cr Cr Sa Sr FA	ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) aift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) atturation Visible on Aerial Imagery (C9) allow Aquitard (D3) aC-Neutral Test (D5)
Drift D Surface Inund: Water Field Obset Surface Water Tabl Saturation (includes ca	nent Deposits (B2) (Non Deposits (B3) (Nonriver Ce Soil Cracks (B6) Action Visible on Aerial I r-Stained Leaves (B9) Prvations: Acter Present? Yes The Present? Yes Present? Yes Apillary fringe) Corded Data (stream ga	magery (I	X Biotic C Aquatic Hydrog Oxidize Present Recent Thin Mu Other (I No X Depth	rust (B11) rust (B12) Invertebren Sulfide d Rhizospice of Reduick Surface Explain in in (inches): in (inches):	ates (B13 Odor (C1 oheres alo uced Iron uction in T ce (C7) Remarks	ng Living (C4) iilled Soils	W W Se Dr Dr Cr Cr Sa Sr FA	ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) aift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) atturation Visible on Aerial Imagery (C9) allow Aquitard (D3) aC-Neutral Test (D5)
Drift D Surface Inund: Water Field Obset Surface Water Tabl Saturation (includes ca	nent Deposits (B2) (Non Deposits (B3) (Nonriver Ce Soil Cracks (B6) Action Visible on Aerial I r-Stained Leaves (B9) Prvations: Acter Present? Yes The Present? Yes Present? Yes Apillary fringe) Corded Data (stream ga	magery (I	X Biotic C Aquatic Hydrog Oxidize Present Recent Thin Mu Other (I No X Depth	rust (B11) rust (B12) Invertebren Sulfide d Rhizospice of Reduick Surface Explain in in (inches): in (inches):	ates (B13 Odor (C1 oheres alo uced Iron uction in T ce (C7) Remarks	ng Living (C4) iilled Soils	W W Se Dr Dr Cr Cr Sa Sr FA	ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) aift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) atturation Visible on Aerial Imagery (C9) allow Aquitard (D3) aC-Neutral Test (D5)
Drift D Surface Inund: Water Field Obset Surface Water Tabl Saturation (includes ca	nent Deposits (B2) (Non Deposits (B3) (Nonriver Ce Soil Cracks (B6) Action Visible on Aerial I r-Stained Leaves (B9) Prvations: Acter Present? Yes The Present? Yes Present? Yes Apillary fringe) Corded Data (stream ga	magery (I	X Biotic C Aquatic Hydrog Oxidize Present Recent Thin Mu Other (I No X Depth	rust (B11) rust (B12) Invertebren Sulfide d Rhizospice of Reduick Surface Explain in in (inches): in (inches):	ates (B13 Odor (C1 oheres alo uced Iron uction in T ce (C7) Remarks	ng Living (C4) iilled Soils	W Se Dr Dr Cr Sa Sr FA	ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) aift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) atturation Visible on Aerial Imagery (C9) allow Aquitard (D3) aC-Neutral Test (D5)

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site:	Silver Eagle 6			City/County:	Sacrament	o, Sacran	nento		Sam	npling Date	э:	12/0)7/17
Applicant/Owner:	Del Paso Homes,	Inc					State: C	CA	Sam	npling Poin	ıt: <u>D</u> F	'- 05	
Investigator(s):	Bonnie Peterson			Section	n, Township	, Range:	Del Pasc	Land Gra	ant, Tov	vnship 9N,	, Rang	e 5E	
Landform (hillslop	e, terrace, etc.):	valley floor		Local re	elief (concave	e, convex	, none): <u>n</u>	one		SI	lope (%	6):	2
Subregion (LRR):	Mediterranean Cal	ifornia (LRR C)	Lat:		38	3.630096	Long:		-121.	466859	Datu	um: NAD 8	33
Soil Map Unit Nan	ne: San Joaqui	ne fine sandy loar	m, 0-3% slope	es		1	NWI Class	sification:	none				
Are climatic / hydr	rologic conditions or	n the site typical fo	or this time of	year?	Yes	Χ	No_		(If no,	explain in	Remai	rks.)	
Are Vegetation	X, Soil	, or Hydrology		significantly	disturbed?	Are "N	lormal Cir	cumstanc	es" pre	sent? Ye	es 2	X No	
Are Vegetation	, Soil				oblematic?	(If nee	ded, expla	ain any an	swers i	n Remarks	s.)		
SUMMARY OF	F FINDINGS – A	Attach site ma	p showing	sampling	y point loc	cations,	transec	cts, impe	ortant	features	s, etc	; <u>.</u>	
Hydrophytic Vege	tation Present?	YesN	NoX	lo the Sa	ampled Area								
Hydric Soil Preser	nt?	YesN	۸o		ampied Area a Wetland?	1	Yes _		No	Х			
Wetland Hydrolog	y Present?	YesN	No										
VEGETATION	- Use scientifi	c names of pl	ants.										
			Absolute	Dominant	Indicator	Domina	nce Test	workshee	et:				
Tree Stratum	(Plot size:)	% Cover	Species?	Status	Number	of Domina	ant Specie	es				
1.		,				That Are	OBL, FA	CW, or FA	۱C:	0		(A)	
2.						Total Nu	mber of D	Oominant	_			`	
3.						Species	Across Al	II Strata:		1		(B)	
4.						Percent	of Domina	ant Specie	es —				
		_	0	=Total Cove	r			CW, or FA		0%	6	(A/B)	
						 							
Sapling/Shrub	Stratum (Plot size:)						(Workshe	et:				
1						-	al % Cove		- , -	Multipl			
2						OBL spe			_x1 =	0			
3						FACW s		0	x2 =	0 0			
5.						FAC spe		20	x3 = x4 =	80			
J			0	=Total Cove		UPL spe		1	_^4 = x5 =	5		_	
Herb Stratum	(Plot size:)		-10tal 00VC	·		Totals:		(A)	85		(B)	
Cynodon da		/	20	Υ	FACU			ex = B/A =				()	
2. Convolvulus			1	N	UPL								
3. Unknown gra	ass (dead)		5	N		Hydropi	nytic Veg	etation In	dicator	rs:			
4.						l	Dominan	nce Test is	>50%				
5						l	Prevalen	ice Index i	s ≤3.0 ¹	l			
6						l	Morpholo	ogical Ada	ptation	d ¹ (Provide	supp	orting	
7										eparate sh	,		
8						l	Problema	atic Hydro	phytic \	/egetation	1 (Expl	ain)	
	ratum (Plot size: _		26	=Total Cove	r			ric soil and		d hydrolog	ງy mus	;t	
0		<u> </u>					<u> </u>	, aistaibet	o pioi	Jonnalle.			
۷٠				=Total Cove	 r	Hydroph							
% Bare Ground	d in Herb Stratum	64	% Cover of I		10	Vegetati Present			Yes_		No	X	
Remarks:				-									

SOIL Sampling Point: DP-05

Dough Mark Rodox Foatures Mark Rodox Foatures Mark Remarks	Profile Des	scription: (Describe	to the dep	oth need	ed to do	cument	the indicat	tor or c	onfirm the absence	e of indicators.)	
Dept. 10 yr 4/3	Depth	Matrix			Red	dox Feat	ures		_		
B-16 10 yr 3/2 100 Clay loam Type: C=Concentration, D=Depletion, RtM=Reduced Matrix, CS=Covered or Coated Sand Grains. FLocation: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosoal (A1) Sandy Radox (S5) 1 mluck (A10) (LRR B) Histosoal (A2) Siripped Matrix (S6) 2 cm Musck (A10) (LRR B) Black Histot (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydric Soil Brain Ramarks) 1 commy Mineral (F1) Reduced Vertic (F18) Stratified Layers (A6) (LRR C) Depleted Matrix (F2) Chemical Reduced Vertic (F18) Depleted Bellow Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) and wetland hydrology must be present. Sandy Mucky Mineral (S1) Vernal Pools (F9) Primary Indicators (Inches): HYDROLOGY Wetland Hydrology Indicators: Hydric Soil Present? Yes No Saturation (A3) Revenue of Primary Indicators (Inches): Hydric Soil Present? Yes No Depth (Inches): Sadimato Deposits (B3) (Nonriverine) Hydrogen Surface (B13) Drift Deposits (B3) (Riverine) Drift Deposits (B3) (Riverine) Presence of Reduced Inches): Primary Indicators (Inches): Present (B4) Pr	(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Ren	narks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosoo (A1) Sandy Rodox (S5) Histosoo (A1) Sandy Rodox (S5) Sirripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Reduced Vertic (F18) Perent Material (TF2) Other (Explain in Remarks) Torn Muck (A9) (LRR D) Depleted Balk Variace (F6) Depleted Balk Variace (F6) Depleted Balk Variace (F7) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S4) Restrictive Layer (if present): Type: None Depth (inches): Hydric Soil Present? Yes No _ Depth (Inches): Defined Deposits (B3) (Nonriverine) Diff Deposits (B3) (Nonriverine) Present Code Reduced Imagery (S7) Present Code (S6) Present? Yes _ No _ Salurada (T6) Surradisco (Torker) (S6) Recent Inches): Present Code (S6) Recent Inches): Recent Inches): Recent Inches: Recent	0-8	10 yr 4/3	100						Clay loam		
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	8-16	10 yr 3/2	100						Clay loam		
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)											
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)											
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Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)											
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	1		· ·								
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	1		· ·								
Histosel (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histo Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histo (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Dapressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) 3-Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: None Depth (inches): Hydric Soil Present? Yes No X Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) X Salt Crust (B11) Water Marks (B1) (Riverine) Saturation (A3) Drift Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drift Deposits (B2) (Riverine) Sediment Deposits (B2) (Nonriverine) Presence of Reduced fron (C4) Crayfish Burrows (C8) Drift Deposits (B3) (Nonriverine) Presence of Reduced fron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Mater Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Water Table Present? Yes No Depth (inches): Water Table Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	¹ Type: C=C	oncentration, D=Depletion	on, RM=Red	duced Mat	rix, CS=Co	overed or	Coated Sar	nd Grains	. ² Location: PL=Por	e Lining, M=Matrix.	
Histosel (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histo Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histo (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) and wetland hydrology must be present, unless disturbed or problematic. Estrictive Layer (if present): Type: None Depth (inches): Hydric Soil Present? Yes No X Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Hydrogen Water Table (A2) X Solici Crust (B11) Water Marks (B1) (Riverine) Saturation (A3) Drift Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drift Deposits (B2) (Riverine) Sediment Deposits (B2) (Nonriverine) Presence of Reduced fron (C4) Crayfish Burrows (C8) Sulface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Mater Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Sulface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches):											. 3
Histic Epipedon (A2)	-		able to all	I LRRs, ι			-			•	ls":
Black Histic (A3)					-						
Hydrogen Sulfide (A4)											
Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Bellow Dark Surface (A12) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: None Depth (inches): Hydric Soil Present? Yes No X Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) X Salt Crust (B11) Water Marks (B1) (Riverine) Surface Water (A1) X Soil Crust (B12) Sediment Deposits (B2) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) (Riverine) Sediment Deposits (B2) (Nonriverine) Aquatic Invertebrates (B10) Drift Deposits (B3) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Craylish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water Mater Table Revent? Yes No Depth (inches): Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Surface Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					-	-					
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Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		` '						illed Soi	` '		erial Imagery (C9)
Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			• • •	B7)							
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Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes X No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Surface Wa	ater Present? Yes									
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:				No	_ Depth	(inches)	:		Wetland Hydrolo	ogy Present? Yes	No
	,	· · · · · · · · · · · · · · · · · · ·			اماد ماد				a) if available.		
Remarks:	Describe Red	corded Data (stream g	auge, mor	iitoring w	eii, aeriai	pnotos,	previous in	spection	is), ir avallable:		
	Remarks:										

WETLAND DETERMINATION DATA FORM - Arid West Region

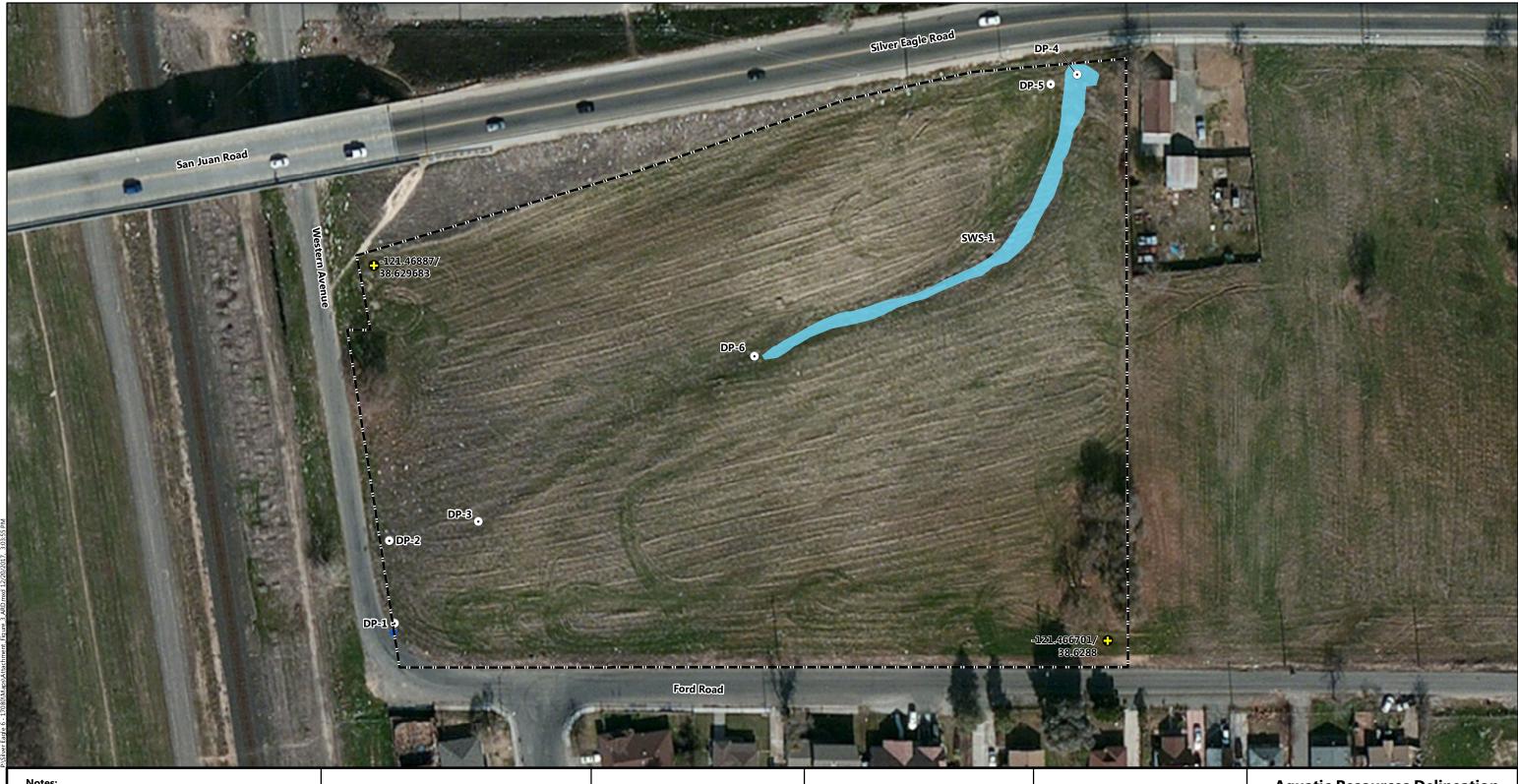
Project/Site:	Silver Eagle 6			City/County:	Sacrament	to, Sacramento		Sam	npling Date:	12/07/17
Applicant/Owner:	Del Paso Homes, I	nc				State	: CA	Sampling Point: DP-06		
Investigator(s):	Bonnie Peterson			Section	n, Township	, Range: <u>Del F</u>	aso Land G	rant, Tov	vnship 9N, R	ange 5E
Landform (hillslop	oe, terrace, etc.):	valley floor		_ Local re	elief (concav	e, convex, none): convex		Slop	e (%): <1
Subregion (LRR):	Mediterranean Cali	ifornia (LRR C)	Lat:		38	3.629467 Long	g:	-121.	467743 [Datum: NAD 83
Soil Map Unit Nar	me: San Joaqui	ne fine sandy loa	am, 0-3% slop	es		NWI C	Classification	: none		
Are climatic / hyd	rologic conditions on	the site typical	for this time of	year?	Yes_	X N	0	(If no,	explain in Re	marks.)
	X, Soil					Are "Normal	Circumstan	ices" pre	sent? Yes	XNo
Are Vegetation	, Soil	, or Hydrology		naturally pro	oblematic?	(If needed, e	xplain any a	nswers in	n Remarks.)	
SUMMARY O	F FINDINGS – A	attach site ma	ap showing	sampling	point loc	cations, trans	sects, imp	oortant	features,	etc.
Hydrophytic Vege	etation Present?		No X	le the Sa	ampled Area	9				
Hydric Soil Prese	nt?		No X		a Wetland?	Yes		No	X	_
Wetland Hydrolog	gy Present?	Yes X	No							
VEGETATION	– Use scientifi	c names of p	olants.							
			Absolute	Dominant	Indicator	Dominance T	est worksh	eet:		
Tree Stratum	(Plot size:)	% Cover	Species?	Status	Number of Do	minant Spec	ies		
1.		,	-			That Are OBL,	FACW, or F	FAC:	0	(A)
2.						Total Number	of Dominant			
3.						Species Acros	s All Strata:		2	(B)
4.						Percent of Dor	ninant Spec	ies		
			0	=Total Cove	r	That Are OBL,			0%	(A/B)
Sanling/Shrub	Stratum (Plot size:	,				Prevalence In	day Works	hoot:		
1.	Ottatum (1 lot size.	<i>)</i>				Total % C		icci.	Multiply b	W.
2						OBL species	0	x1 =	0	<u>y. </u>
3.						FACW species		x:		
4.						FAC species	0	x3 =	0	
5.						FACU species	10	x4 =	40	
			0	=Total Cove	<u></u>	UPL species	10	x5 =	50	
Herb Stratum	(Plot size:)				Column Totals	: 20	(A)	90	(B)
1. <i>Malvella lepi</i>			10	Y	FACU	Prevalence l	ndex = B/A	=	4.5	
2. Convolvulus			10	Y	UPL					
3. <u>Unknown gr</u>	ass (dead/matted	d)	25			Hydrophytic \	egetation l	ndicator	's:	
4							nance Test			
5						Preva	alence Index	is ≤3.0°		
6									d¹ (Provide sı	
7									eparate shee	,
8			45			Probl	ematic Hydi	ophytic V	egetation ¹ (E	=xplain)
	tratum (Plot size: _	,		=Total Cove	r	¹ Indicators of h				nust
2.										
			-	=Total Cove		Hydrophytic				
% Bare Ground	d in Herb Stratum	25	% Cover of		30	Vegetation Present?		Yes_	No	X
Remarks:										

SOIL Sampling Point: DP-06

Profile Des	scription: (Describe	to the depth	needed to d	ocument	the indica	tor or co	onfirm the absence	e of indicators.)		
Depth Matrix		R	Redox Features			-				
(inches)	Color (moist)	<u>%</u> C	color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-8	10 yr 3/2	100					Clay loam			
8-16	10 yr 4/1	100		-		-	Loamy clay	rocks/asphalt chunks		
		. —— —								
				_			<u> </u>			
				-						
¹ Type: C=C	oncentration, D=Depletion	on, RM=Reduc	ed Matrix, CS=	Covered or	Coated Sar	nd Grains	. ² Location: PL=Por	e Lining, M=Matrix.		
Hydric Soi	il Indicators: (Applic	ablo to all I E	De unloss o	thorwiso	noted)		Indicators for B	roblomatic Hydric Soils ³ :		
-		able to all Lr		dy Redox (S5)			Indicators for Problematic Hydric Soils ³ : 1 cm Muck (A9) (LRR C)			
				ed Matrix (2 cm Muck (A10) (LRR B)		
							Reduced Vertic (F18)			
Black Histic (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)						Red Parent Material (TF2)				
	fied Layers (A5) (LRR	C)		ed Matrix			Other (Explain in Remarks)			
	Muck (A9) (LRR D)	J ,		Dark Sur			Outer (Expi	iani ni rionanoj		
	eted Below Dark Surfa	ce (A11)			surface (F7)				
	Dark Surface (A12)	()				,	2			
	Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9)						³ Indicators of hydrophytic vegetation and wetland hydrology must be present,			
	y Gleyed Matrix (S4)			(,			less disturbed or problemation		
	E Layer (if present):							· · · · · · · · · · · · · · · · · · ·		
	ock/asphalt									
Depth (inch	•	16	- 3			Н,	dric Soil Present?	Yes	No X	
Remarks:			<u> </u>							
HYDROLOG	v									
	<u>r</u> lydrology Indicators:									
	dicators (minimum of c		check all that	apply)			Seco	ndary Indicators (2 or more r	equired)	
	ce Water (A1)			rust (B11)			Water Marks (B1) (Riverine)			
	<u> </u>			Biotic Crust (B12)				Sediment Deposits (B2) (Riv		
Saturation (A3) Aquatic Invertebrates (B1)		Drift Deposits (B3) (Riverine	·)	
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1))	_	Drainage Patterns (B10)		
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Livin							Roots (C3)	Dry-Season Water Table (C2	2)	
Drift D	Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)							Crayfish Burrows (C8)		
Surfa	ce Soil Cracks (B6)		Recen	t Iron Red	uction in T	illed Soil	s (C6)	Saturation Visible on Aerial I	magery (C9)	
Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7)						<u> </u>	Shallow Aquitard (D3)			
Wate	r-Stained Leaves (B9)	1	Other	(Explain ir	Remarks)			FAC-Neutral Test (D5)		
Field Obse	ervations:									
Surface Wa	ater Present? Yes	s No	X Dep	th (inches)):					
Water Tabl	le Present? Yes	s No	X Dep	th (inches)):					
Saturation Present? Yes No X Depth (inches):							Wetland Hydrolo	ogy Present? Yes X	No	
	apillary fringe)									
Describe Red	corded Data (stream g	auge, monitor	ing well, aeria	ai photos,	previous in	spection	s), it available:			
Remarks:										

Attachment B

Aquatic Resourced Delineation Map



Notes:

Scale: 1 inch = 80 feet

Coordinate System: NAD 1983 State Plane California II

Datum: NAD83

Projection: Transverse Mercator

Vertical Data: NAVD88

Aerial Base: USDA, National Agriculture Imagery Program

Aerial Base Flown: 21 June 2016 Date Map Prepared: 20 December 2017

Map Prepared by: N. Bente

Delineation Performed by: B. Peterson

Definitions:

NAD = North American Datum

NAVD = North American Vertical Datum USDA = United States Department of Agriculture



Prepared For:

John Griffin

c/oDel Paso Homes, Inc. 4120 Douglas Blvd. #306-375 Granite Bay, CA 95746

Aquatic Resources

Seasonal Wetland Swale (0.111 acre)

Other Features

Study Area Boundary (7 acres)

Reference Point

Data Points

* Culvert

AQUATIC RESOURCE FEATURES

Seasonal Wetland Swale

Linear Feet

Feature ID Acreage SWS-1 0.111

Aquatic Resources Total: 0.111 acre

Aquatic Resources Delineation Silver Eagle 6

Sacramento, Sacramento County, California



8421 Auburn Boulevard, Suite 248 Citrus Heights, California 95610 (916) 822.3220 | www.madroneeco.com

Attachment C

Plant Species Observed within the Study Area

Plant Species Observed within the Silver Eagle 6 Study Area 6 and 7 September 2017

Wetland Indicator

Species Name	Common Name	Status
Avena sp.	Wild oat	UPL
Brassica nigra	Black mustard	UPL
Bromus sp,	Brome	UPL
Bromus hordeaceus	Soft chess	FACU
Centaurea solstitialis	Yellow star-thistle	UPL
Cichorium intybus	Chicory	UPL
Convolvulous arvensis	Field bind weed	UPL
Croton setiger	Turkey mullen	
Cynodon dactylon	Bermuda grass	FACU
Cyperus eragrostis	Tall nutsedge	FACW
Erodium botrys	Long beaked filaree	UPL
Festuca perennis	Rye grass	FAC
Lactuca serriola	Prickly lettuce	FACU
Lythrum hyssopifolium	hyssop loosestrife	OLB
Malvella leprosa	Alkali mallow	FACU
Quercus douglasii	Blue oak	UPL
Quercus wislizeni var. wislizeni	Interior live oak	UPL
Rumex crispus	Curly dock	FAC
Salsola tragus	Russian thistle	UPL
Sorghum halepense	Johnsongrass	FACU

Attachment D

Representative Site Photographs



Data Point 1 - 7 December 2017



Data Point 2 - 7 December 2017



Data Point 3 - 7 December 2017



Data Point 4 - 7 December 2017



Data Point 5 - 8 December 2017



Data Point 6 - 8 December 2017

Attachment E

GIS Shapefiles and the Aquatic Resources Excel Spreadsheet (on CD)

Attachment F

Access Letter

Project Manager Regulatory Division U.S. Army Corps of Engineers 1325 J Street, Room 1350 Sacramento, California 95814-2922

Re: Silver Eagle 6 Access

This letter serves as written permission to enter the Silver Eagle 6 area shown on the attached Figure 1 when accompanied by Madrone Ecological Consulting, LLC (Madrone) staff. When accompanied by Madrone staff, you may dig soil pits by hand and collect plant materials related to the verification of potential Waters of the U.S. on the subject property. If you have any questions, please contact Sarah VonderOhe at Madrone (916) 822-3230 or svonderohe@madroneeco.com.

Sincerely,

John Giriffin Del Paso Homes Inc.