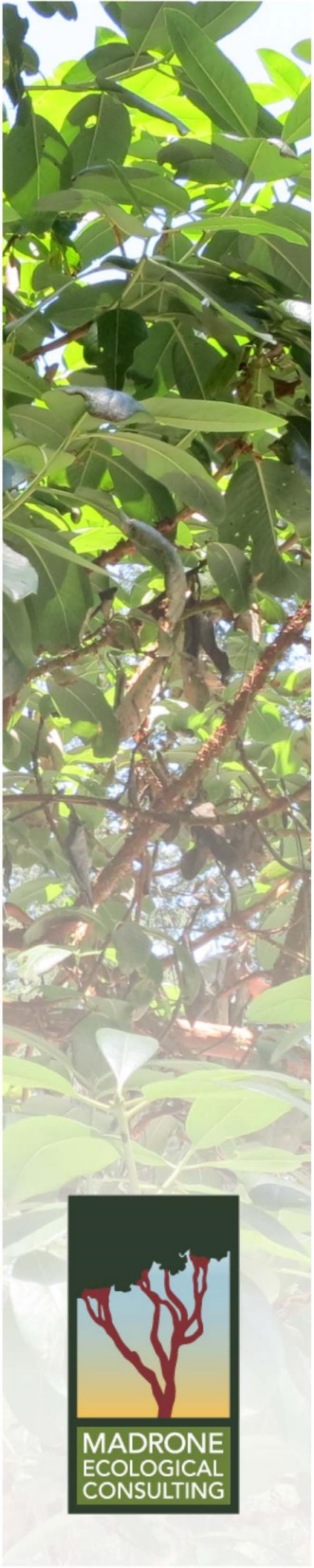

Aquatic Resources Delineation Report

Premier Montaire

Town of Loomis, Placer County
November 2022

MADRONE ECOLOGICAL CONSULTING

Prepared for:
Stefan Horstschraer
Premier Homes LLC
8483 Douglas Plaza Dr.
Granite Bay, CA 95746

Recommended Citation:
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CONTENTS

Aquatic Resources Delineation Report
Premier Montaire

1.0 INTRODUCTION

This report presents the results of a delineation of aquatic resources within the Premier Montaire property (Study Area) conducted by Madrone Ecological Consulting, LLC (Madrone). The approximately 29-acre Study Area is located south of Rocklin Road and west of Barton Road in the town of Loomis, Placer County, California. The Study Area is located in a portion of Section 21, Township 11 North, Range 7 East (MDB&M) of the "Rocklin, California" 7.5-Minute Series USGS Topographic Quadrangle (USGS 2021) at a Latitude 38.786521, Longitude -121.194838 (**Figure 1**).

1.1 Contact Information

Property Owner

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2.0 METHODOLOGY

Madrone senior biologist Bonnie Peterson conducted a delineation of aquatic resources within the Study Area on 23 August and 7 October 2022. Water features and data points were mapped in the field with a GPS unit capable of sub-meter accuracy (Trimble GeoXT). 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 (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 2022) was used to determine the wetland indicator status of plants observed in the Study Area. The *Jepson eFlora* (Jepson Flora Project 2022) 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 situated on rolling terrain in the Sierra foothills at an average elevation of approximately 375 feet. Rocklin Road and Barton Road parallel the north and east edges of the property, respectively, and rural residential developments are located on the abutting parcels to the south and west. The Study Area includes a single-family residence and mobile home on Rocklin Road. The surrounding lands in general represent a mix of rural and residential developments.

The Study Area contains several different wetland/water features including seasonal wetlands, seasonal wetland swales, seep, and a pond with adjacent wetlands. Terrestrial plant communities in the Study Area are primarily comprised of historically disturbed annual grassland and oak woodland.

The Study Area includes a portion of the previously delineated 38-acre Dominican Property. Biological resources studies were conducted, and a preliminary wetland delineation report was submitted to the USACE in 2009 and 2011 for the Dominican Property.

3.1 Terrestrial Plant Communities

3.1.1 Non-Native Annual Grassland

The northwestern portion of the Study Area is occupied by non-native annual grassland. This vegetation community is dominated by soft brome (*Bromus hordeaceus*), ripgut brome (*B. diandrus*), yellow star-thistle (*Centaurea solstitialis*), dogtail (*Cynosurus echinatus*), Bermuda grass (*Cynodon dactylon*), prickly lettuce (*Lactuca serriola*), winter vetch (*Vicia villosa*), and smooth cat's ear (*Hypochaeris glabra*). Other species commonly occurring in this community within the Study Area include filaree (*Erodium botrys*), elegant clarkia (*Clarkia unguiculata*), hairy hawkbit (*Leontodon saxatilis*), slender wild oat (*Avena barbata*), perennial ryegrass (*Festuca perennis*), rose clover (*Trifolium hirtum*), and (*Galium aparine*). This non-native annual grassland community also dominates the understory of the oak woodland.

3.1.2 Oak Woodland

The canopy of the oak woodland is dominated by interior live oak (*Quercus wislizeni*), blue oak (*Q. douglasii*), and grey pine (*Pinus sabiniana*). A number of shrubs and other perennials occur in the understory, including poison-oak (*Toxicodendron diversilobum*), hoary coffeeberry (*Frangula californica* ssp. *tomentella*), Himalayan blackberry (*Rubus armeniacus*) chaparral honeysuckle (*Lonicera interrupta*), and field bindweed (*Convolvulus arvensis*). The herbaceous understory is largely similar to the non-native annual grassland described above.

3.2 Hydrology

Surface water in the Study Area all appears to be from natural stormwater runoff and groundwater

The Study Area generally drains to a perennial pond in the southwest corner which drains to an unnamed tributary to Secret Ravine. Secret Ravine is depicted as a dashed blue line feature on the "Rocklin, California" USGS topographic quadrangle (USGS 2021). Secret Ravine is a tributary of Dry Creek, which is a tributary of the Sacramento River. The Study Area is located in the Lower American River Watershed (HUC 1802011) (USGS 1978).

Placer County continues to experience drought conditions and the Study Area is located in an extreme drought area (Drought.gov, 2022).

3.3 National Wetlands Inventory

The National Wetlands Inventory (NWI) mapped one freshwater pond within the Study Area (PUMHh) (USFWS 2022). This pond falls partially within the Study Area and was mapped as a 5.21-acre palustrine emergent unconsolidated bottom, permanently flooded, and diked/impounded. Per the NWI, this pond was mapped for use in the inventory from a 1987 aerial photography.

3.4 Soils

According to the Natural Resources Conservation Service (NRCS) Soil Survey Database (NRCS 2022), two soil mapping units occur within the Study Area (**Figure 2**): (106) Andregg coarse sandy loam, 2 to 9% slopes and (107) Andregg coarse sandy loam, 9 to 15% slopes.

The majority of the Study Area is Andregg coarse sandy loam, 2-9% slopes (106), which is moderately deep, well drained, and located over weathered granitic bedrock. The following inclusions are found within 106: Caperton coarse sandy loam (5%), Sierra sandy loam (5%), two unnamed Andregg-like soils (10% total), and one unnamed Sierra-like soil (5%). The northwest corner of the Study Area is Andregg coarse sandy loam, 9-15% slopes (107), which is a moderately deep, well drained typic haploxeroll. This rolling soil is situated above weathered, granitic bedrock, and contains inclusions of about 5% Caperton coarse sandy loam and 5% Sierra sandy loam. An additional 8% and 3% are made up of two unnamed Andregg-like inclusions and an unnamed Sierra-like inclusion, respectively. Both of the above Andregg soils contain bare rock outcrops.

Neither of the above soil map units are listed in the, "**Hydric Soils of the United States**" (NRCS 2022b) however, (106) may contain hydric inclusions in drainageways (NRCS 2022a).

3.5 Driving Directions

To access the Study Area from Sacramento, drive east on Interstate 80 to the Rocklin Road exit. To access the site from Sacramento, drive east on Interstate 80 and exit at Sierra College Boulevard. Drive south on Sierra College Boulevard for approximately one miles before turning left (east) onto Rocklin Road. Continue east for about 0.5 mile until reaching the Rocklin Road-Barton Road intersection; the Study Area is located directly to the southwest.

4.0 RESULTS

A total of 5.143 acre of aquatic resources were delineated within the Study Area (Table 1). Data sheets are included in **Attachment A,** maps of the aquatic resources 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**. Representative site photographs are available in **Attachment D** and the *Aquatic Resources Excel Spreadsheet* for the aquatic resources are included in **Attachment E**. GIS Shapefiles are provided digitally per current USACE guidance. Each of the feature types is described below.

Table 1. Aquatic Resources Mapped within the Study Area

Resource Type	Acreage
Wetlands	
Seasonal Wetland	0.031
Seasonal Wetland Swale	0.356
Seep	0.078
Other Waters	
Pond	4.678
Total	**5.143**

4.1 Wetlands

4.1.1 Seasonal Wetland

Three seasonal wetlands were delineated within the Study Area. Seasonal wetlands are depressional wetlands that pond water seasonally. Within the Study Area the seasonal wetlands are hydrologically driven by rainfall and fall within shallow valleys that lack sufficient flow to be characterized as seasonal wetland swales. Within the Study Area, these are relatively shallow features that are occupied by a mix of facultative and wetland plant species in topographic depressions. Pant species commonly observed in seasonal wetlands within the Study Area include perennial ryegrass (*Festuca perennis*) (FAC), clustered dock (*Rumex conglomeratus*) (FACW), iris-leaved rush (*Juncus xiphioides*)(OBL), Baltic rush (*Juncus balticus*) (FACW) and Mediterranean barley (*Hordeum marinum*)(FAC)

Wetland hydrology indicators observed in the seasonal wetland swales during the field survey included biotic crust (in the form of algal matting), water-stained leaves, and oxidized rhizospheres along live roots. Soils were sandy loam varying from moderately to very sandy. Soils within the seasonal wetlands were considered to be hydric based on the presence of field indicator F6 (redox dark surface) or F3 (reduced matrix).

4.1.2 Seasonal Wetland Swale

Four seasonal wetland swales were delineated within the Study Area. Seasonal wetland swales are sloping, linear seasonal wetlands that convey surface runoff, and may detain it for short periods of time. Within the Study Area the seasonal wetland swales contained both undefined grass dominated portions, interspersed with eroded sections with a distinct bed and bank. Dominant plant species within the seasonal wetland swales include perennial ryegrass, annual rabbit's foot grass (*Polypogon monspeliensis*), velvet grass (*Holcus lanatus*), and clustered dock. Other species commonly observed in these features within the Study Area include goldenrod (*Euthamia occidentalis*), tall nut sedge (*Cyperus eragrostis*), cattail (*Typha* species), Italian thistle (*Carduus pycnocephalus*), and Himalayan blackberry. All four seasonal wetland swales appear to be natural drainage features that convey seasonal runnoff from upslope of the Study Area into the pond. Seasonal wetland swale SWS-1 includes some drainage piping, which was not in use during the site visit. Seasonal wetland swale SWS-2 and SWS-3 both appear to receive some irrigation runoff from landscape planting south of the Study Area.

Wetland hydrology indicators observed in the seasonal wetland swales during the field survey included biotic crust (in the form of algal matting), sediment deposits (nonriverine), water-stained leaves, and drift deposits. Soils within the seasonal wetlands were very sandy loam and considered to be hydric based on the presence of field indicator F6 (redox dark surface).

4.1.3 Seep

A seep was delineated within the northwestern portion of the Study Area. Seeps are wetlands that occur on slopes and receive hydrology almost exclusively from groundwater as differentiated from the seasonal wetlands with precipitation driven hydrology. Dominant plant species in the seep includes a Goodding's willow (*Salix gooddingii*), Iris-leaved sedge, Baltic rush, velvet grass, and Himalayan blackberry. A berm or old stockpile is located south of the seep and the seep is hydrologically isolated from the pond to the south.

Indicators of wetland hydrology observed in the seep was limited to oxidized rhizospheres along live roots, and the Fac-neutral test. The soil matrix color at Data Point 11 was 10 YR 3/2 from the surface to a depth of 3", and 10 YR 5/1 with 2% 7.5YR 4/6 redox concentrations along pore linings from 3" to 12" below the soil surface. The soil at this data point was considered to be hydric based on the presence of field indicator F3 (Reduced Matrix).

4.2 Other Waters

4.2.1 Perennial Pond

An approximately 4.678-acre acres of perennial pond and adjacent wetlands are located in the southwest corner of the Study Area. Adjacent wetlands mapped within the pond appear to seasonally inundate during wetter times of the year when the water level of the pond is at its highest. For the purpose of this report, wetlands adjacent to the pond were differentiated from seasonal wetlands and seasonal wetland swales

that drain direct into the pond because they are influenced by backwater flooding from the pond. Willows (*Salix sp*.), Fremont's cottonwood (*Populus fremontii*), soft rush (*Juncus effusus*), swamp timothy (*Crypsis schoenoides*), rabbit's foot grass (*Polypogon monspeliensis*), floating primrose (*Ludwigia peploides*), broad-leaf water plantain (*Alisma Plantago-aquatica*), brome fescue (*Festuca bromoides*), tall nutsedge, willowherb (*Epilobium densiflorum*), ciliate willow-herb (*Epilobium ciliatum*), goldenrod, tall nut sedge, cattail, and Himalayan blackberry represent some of the observed wetland plant species. Seasonally the open water portion of the pond is covered with mosquito fern (*Azolla microphylla*) and duckweed *(Lemna sp*.) and a pile of what appeared to be skimmed vegetation from the pond was located north of the pond near data point DP-7.

The majority of the pond is perennial with surface water evident in aerial imagery. Wetland margins flood seasonally with surface water evident in most wet season imagery. Soil data points were taken in wetland margins and were considered to be hydric based on the presence of field indicator F6 (redox dark surface).

The pond is a human induced feature which first appears on the 1968 USGS topo and was constructed between 1952 and 1957 (historicaerials.com). The pond temporarily impounds water from seasonal wetland swales to the east and northeast and is perennial in nature with the transition between emergent wetland fringes and open water shifting depending on the water year. A series of culverts and pipes indicated that at some point the pond may be artificially filled, though no evidence of pumping was observed during the site visits. Spoils, from what is presumed to be ongoing pond maintenance, were placed within the Study Area west of seasonal wetland SW-1. The western (offsite) perimeter of the pond it made of a created rock berm. While the pond outflow to the southwest is on private property and was not accessible during the site visits, per available public aerials it appears to drain through a culvert under the southwestern level that created to impound water.

5.0 CONCLUSION

The Federal Environmental Protection Agency (EPA) and USACE are currently interpreting "waters of the United States" consistent with the pre-2015 regulatory regime, as defined in 40 CFR 230.3(s). The term waters of the United States mean:

- All waters which are currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide;
- All interstate waters including interstate wetlands;
- All other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, the use, degradation or destruction of which could affect interstate or foreign commerce including any such waters:
    - Which are or could be used by interstate or foreign travelers for recreational or other purposes; or

    - From which fish or shellfish are or could be taken and sold in interstate or foreign commerce; or
    - Which are used or could be used for industrial purposes by industries in interstate commerce;
- All impoundments of waters otherwise defined as waters of the United States under this definition;
- Tributaries of waters identified above;
- The territorial sea;
- Wetlands adjacent to waters (other than waters that are themselves wetlands) identified above; waste treatment systems, including treatment ponds or lagoons designed to meet the requirements of CWA (other than cooling ponds as defined in 40 CFR 423.11(m) which also meet the criteria of this definition) are not waters of the United States.

Waters of the United States do not include prior converted cropland. Notwithstanding the determination of an area's status as prior converted cropland by any other federal agency, for the purposes of the Clean Water Act, the final authority regarding Clean Water Act jurisdiction remains with EPA.

While only the EPA and USACE can make a judicial determination, under current USACE guidance, the perennial pond and wetland margins would be considered federally jurisdictional, as they are perennial waters that ultimately flow to the Sacramento River, a traditional navigable water. Seasonal wetland swales SWS-1, SWS-2, SWS-3, and SWS-4, are directly adjacent to and flow seasonally into the perennial pond and would also typically be considered jurisdictional wetlands. Seep S-1 and seasonal wetlands SW-1, SW-2, and SW-3 do not have a clear ground or surface water connection to other waters of the US and a significant nexus determination will be required to make a jurisdictional determination.

The applicant is requesting a Preliminary Jurisdictional Determination for the Aquatic Resources Delineation map included as **Attachment B**. *The Request for Aquatic Resource Verification or Jurisdictional Determination Form* is included in **Attachment F.**

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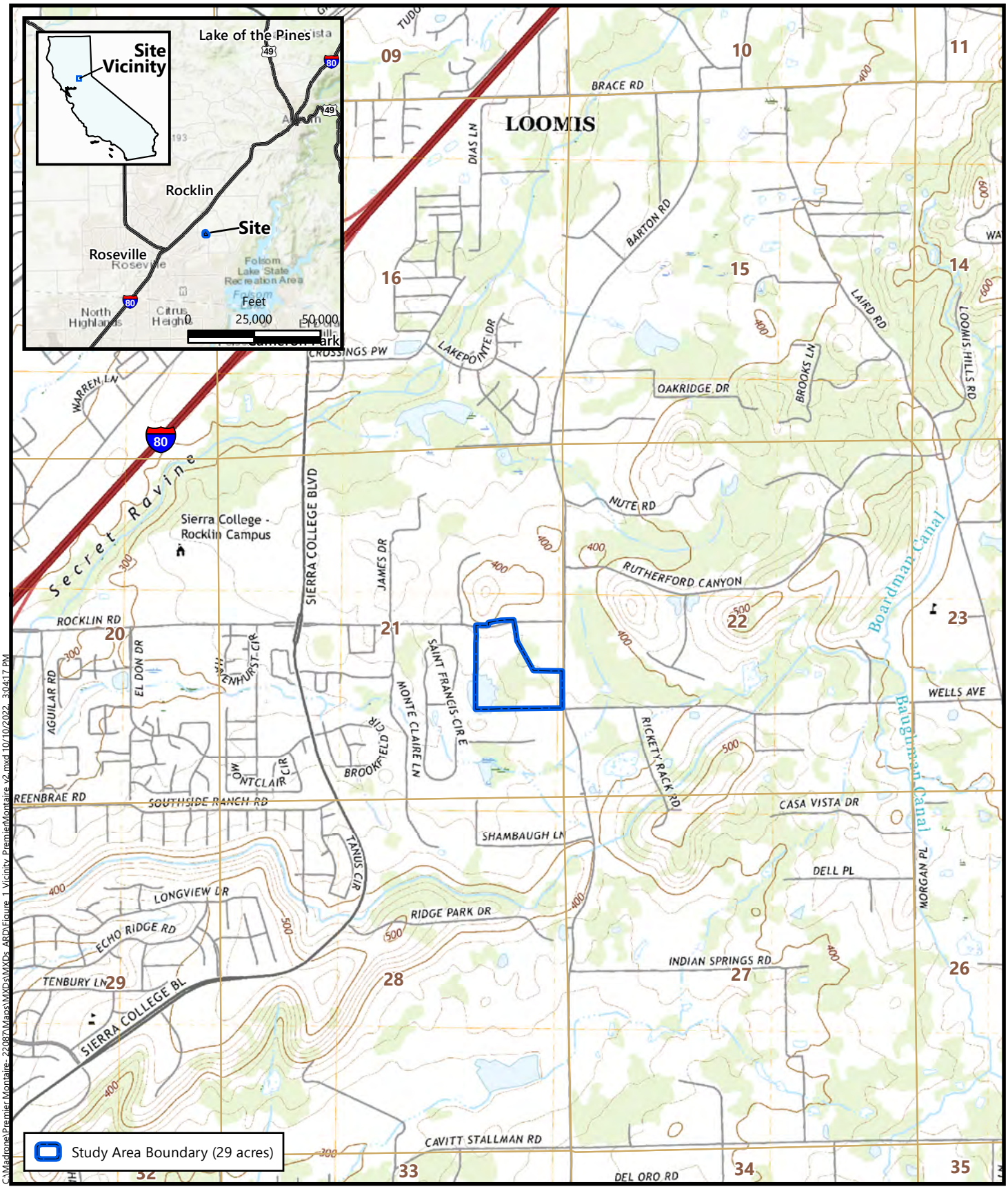
Figures



C:\Madrone\Premier Montaire - 22087\Maps\MXDs\MXDs ARD\Figure 1 Vicinity PremierMontaire v2.mxd 10/10/2022 3:02:17 PM

Source: United States Geologic Survey, 2021.
"Rocklin, California" 7.5-Minute Topographic Quadrangle
Section 21, Township 12 North, Range 7 East, MDB&M
Longitude-121.194838, Latitude 38.786521

Figure 1
Site and Vicinity

Premier Montaire
Town of Loomis, Placer County, California

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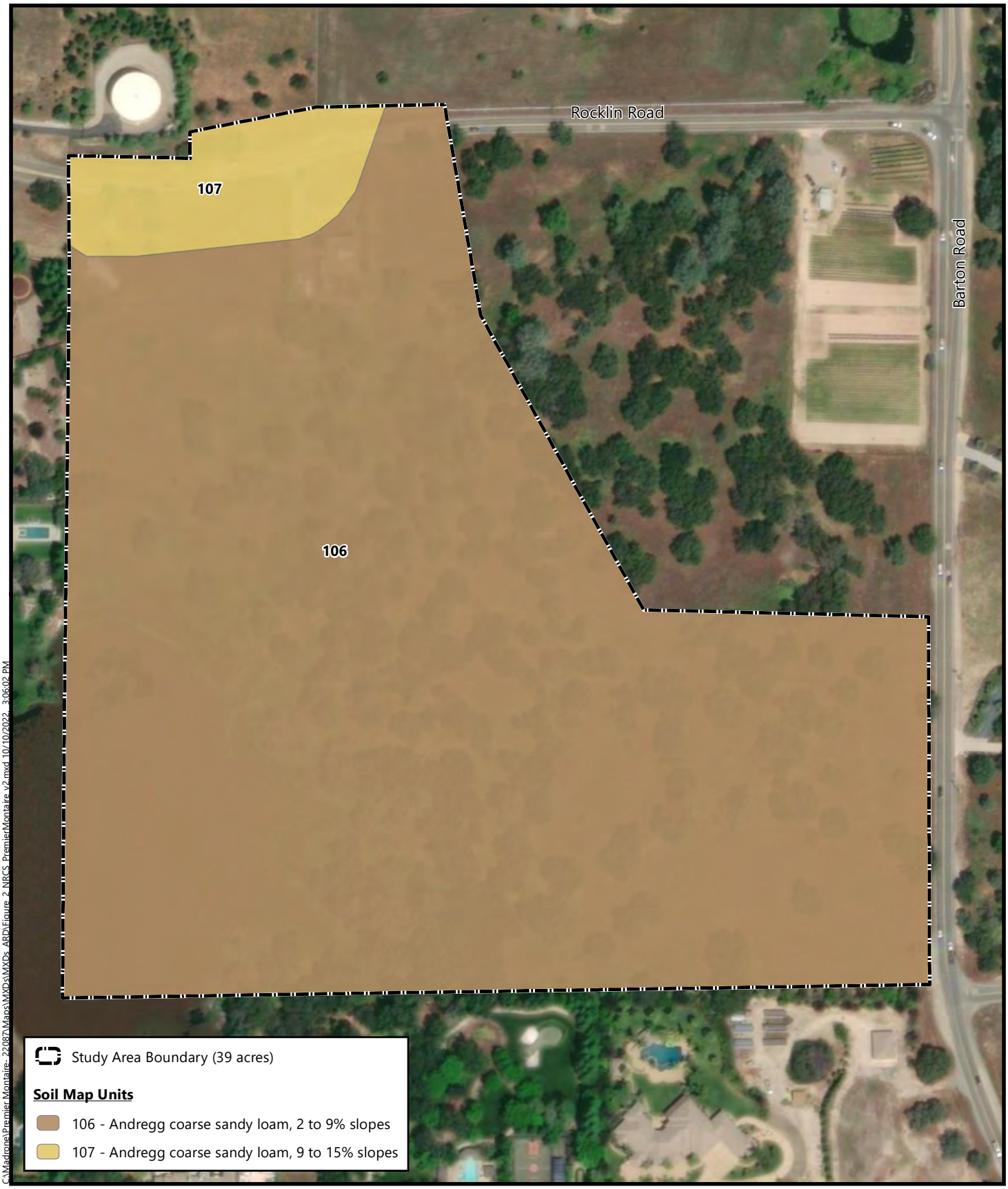

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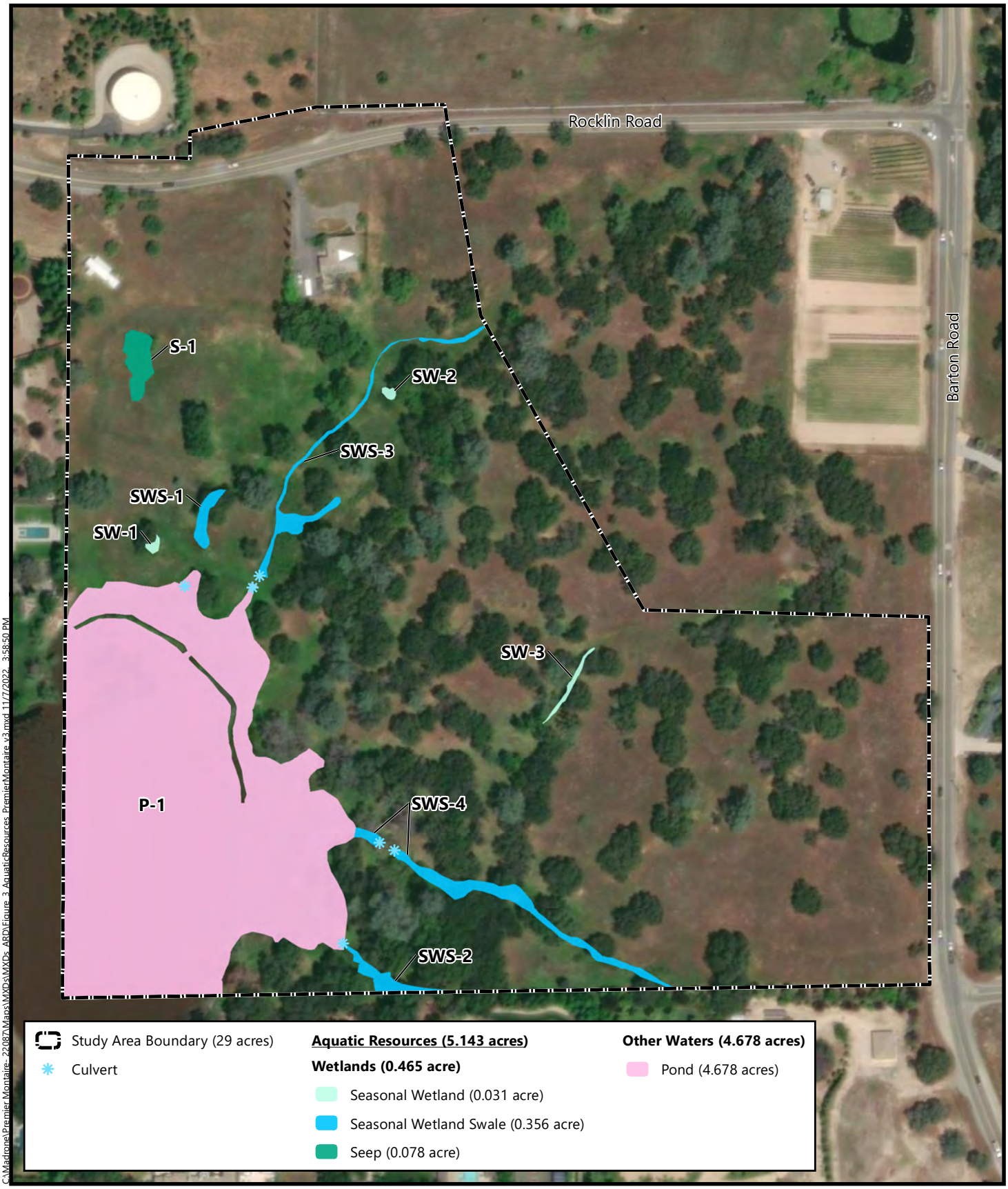
Soil Survey Source: *USDA, Soil Conservation Service. Soil Survey Geographic (SSURGO) database for Placer County, California, Western Part*
Aerial Source: Maxar, 1 May 2022

Figure 2
Natural Resources Conservation Service Soils

Premier Montaire
Town of Loomis, Placer County, California

MADRONE ECOLOGICAL CONSULTING



C:\Madrone\Premier Montaire - 22087\Maps\MXDs\MXDs ARD\Figure 3 AquaticResources PremierMontaire v3.mxd 11/7/2022 3:58:50 PM

Figure 3
Aquatic Resources

Premier Montaire
Town of Loomis, Placer County, California

Aerial Source: Maxar, 1 May 2022

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Attachments

Attachment A. Arid West Wetland Determination Data Forms

Attachment B. Aquatic Resources Delineation

Attachment C. Plant Species Observed within the Study Area

Attachment D. Representative Site Photographs

Attachment E. Aquatic Resources Excel Spreadsheet

Attachment F. Request for Aquatic Resource Verification or Jurisdictional Determination Form

Attachment A

Arid West Wetland Determination Data Forms

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Premier Montaire City/County: Loomis/ Placer Sampling Date: 08/23/22
Applicant/Owner: Premier Homes CA Sampling Point: DP-1
Investigator(s): Bonnie Peterson/Madrone Ecological Section, Township, Range: Section 21, Township 11 North, Range 7 East
Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): none Slope (%): 3
Subregion (LRR): Mediterranean California (LRR C) Lat: Long: Datum: NAD 83
Soil Map Unit Name: (106) Andregg coarse sandy loam NWI Classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X* No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes	No X	**Is the Sampled Area within a Wetland?** Yes No X
Hydric Soil Present?	Yes	No X	
Wetland Hydrology Present?	Yes	No X	

Remarks:*Placer County is in a Severe Drought, which is typical of recent rain years.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	0	=Total Cover	

Sapling/Shrub Stratum (Plot size:)			
1.			
2.			
3.			
4.			
5.			
	0	=Total Cover	

Herb Stratum (Plot size: 1 meter^2)			
1. *Dittrichia graveolens*	90	Y	UPL
2. *Bromus hordeaceus*	10	N	FACU
3.			
4.			
5.			
6.			
7.			
8.			
	100	=Total Cover	

Woody Vine Stratum (Plot size:)			
1.			
2.			
		=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: **0** (A)
Total Number of Dominant Species Across All Strata: **1** (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: **0%** (A/B)

Prevalence Index Worksheet:

Total % Cover of:		Multiply by:	
OBL species	**0**	x1 =	**0**
FACW species	**0**	x2 =	**0**
FAC species	**0**	x3 =	**0**
FACU species	**10**	x4 =	**40**
UPL species	**90**	x5 =	**450**
Column Totals:	**100** (A)		**490** (B)

Prevalence Index = B/A = **4.9**

Hydrophytic Vegetation Indicators:
Dominance Test is >50%
Prevalence Index is ≤3.0[1]
Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes No X

Remarks:

SOIL

Sampling Point: DP-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10 YR 3/3	100					Sandy 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.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** _____ **No** X

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary 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**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches): _____

Water Table Present? Yes _____ No X Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No X Depth (inches): _____

Wetland Hydrology Present? **Yes** _____ **No** X

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

Remarks: No inundation or saturation visable on aerial imagery.

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Premier Montaire City/County: Loomis/ Placer Sampling Date: 08/23/22
Applicant/Owner: Premier Homes CA Sampling Point: DP-2
Investigator(s): Bonnie Peterson/Madrone Ecological Section, Township, Range: Section 21, Township 11 North, Range 7 East
Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Concave Slope (%): 0
Subregion (LRR): Mediterranean California (LRR C) Lat: Long: Datum: NAD 83
Soil Map Unit Name: (106) and (107) Andregg coarse sandy loam NWI Classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X* No (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No	**Is the Sampled Area within a Wetland?** Yes X No
Hydric Soil Present?	Yes X	No	
Wetland Hydrology Present?	Yes X	No	

Remarks:*Placer County is in a Severe Drought, which is typical of recent rain years.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	0 =Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1.			
2.			
3.			
4.			
5.			
	0 =Total Cover		
Herb Stratum (Plot size: 1 meter^2)			
1. *Juncus xiphioides*	100	Y	OBL
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	100 =Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	=Total Cover		

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
Total Number of Dominant Species Across All Strata: 1 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index Worksheet:

Total % Cover of:		Multiply by:
OBL species	100 x1 =	100
FACW species	0 x2 =	0
FAC species	0 x3 =	0
FACU species	0 x4 =	0
UPL species	0 x5 =	0
Column Totals:	100 (A)	100 (B)

Prevalence Index = B/A = 1.0

Hydrophytic Vegetation Indicators:
X Dominance Test is >50%
X Prevalence Index is ≤3.0[1]
____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No

Remarks:

SOIL

Sampling Point: DP-2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-10	10 YR 3/3	100					Sandy loam	
10+	10 YR 3/2	90	10 YR 3/6	10	C	M	Sandy 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.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- C Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: ___

Depth (inches): ___

Hydric Soil Present? **Yes** X **No** ___

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary 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**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- X Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- X Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): ___

Water Table Present? Yes ___ No X Depth (inches): ___

Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): ___

Wetland Hydrology Present? **Yes** X **No** ___

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Premier Montaire City/County: Loomis/ Placer Sampling Date: 08/23/22
Applicant/Owner: Premier Homes CA Sampling Point: DP-3
Investigator(s): Bonnie Peterson/Madrone Ecological Section, Township, Range: Section 21, Township 11 North, Range 7 East
Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): none Slope (%): 3
Subregion (LRR): Mediterranean California (LRR C) Lat: Long: Datum: NAD 83
Soil Map Unit Name: (106) and (107) Andregg coarse sandy loam NWI Classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X* No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes	No X	**Is the Sampled Area within a Wetland?** Yes No X
Hydric Soil Present?	Yes	No X	
Wetland Hydrology Present?	Yes	No X	

Remarks:*Placer County is in a Severe Drought, which is typical of recent rain years.

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status
Tree Stratum (Plot size:)			
1.			
2.			
3.			
4.			
	0	=Total Cover	
Sapling/Shrub Stratum (Plot size:)			
1.			
2.			
3.			
4.			
5.			
	0	=Total Cover	
Herb Stratum (Plot size: 1 meter^2)			
1. *Bromus diandrus*	10	N	UPL
2. *Carduus pycnocephalus*	15	Y	UPL
3. *Rubus armeniacus*	10	N	FAC
4. *Vicia villosa*	10	N	UPL
5. *Avena barbata*	30	Y	UPL
6. *Cynodon dactylon*	25	Y	UPL
7.			
8.			
	100	=Total Cover	
Woody Vine Stratum (Plot size:)			
1.			
2.			
		=Total Cover	
% Bare Ground in Herb Stratum 0	% Cover of Biotic Crust		

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: **0** (A)
Total Number of Dominant Species Across All Strata: **3** (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: **0%** (A/B)

Prevalence Index Worksheet:

Total % Cover of:		Multiply by:	
OBL species	**0**	x1 =	**0**
FACW species	**0**	x2 =	**0**
FAC species	**0**	x3 =	**0**
FACU species	**10**	x4 =	**40**
UPL species	**90**	x5 =	**450**
Column Totals:	**100** (A)		**490** (B)

Prevalence Index = B/A = **4.9**

Hydrophytic Vegetation Indicators:
Dominance Test is >50%
Prevalence Index is ≤3.0[1]
Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes No X

Remarks:

SOIL

Sampling Point: DP-3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	10 YR 4/3	99	10 YR 4/4	1	C	M	sandy loam	
4-10	10 YR 4/3	55	10 YR 4/4	45	C	M	sandy 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.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** _____ **No** X

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary 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**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches): _____

Water Table Present? Yes _____ No X Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No X Depth (inches): _____

Wetland Hydrology Present? **Yes** _____ **No** X

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Premier Montaire City/County: Loomis/ Placer Sampling Date: 08/23/22
Applicant/Owner: Premier Homes CA Sampling Point: DP-4
Investigator(s): Bonnie Peterson/Madrone Ecological Section, Township, Range: Section 21, Township 11 North, Range 7 East
Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): none Slope (%): 3
Subregion (LRR): Mediterranean California (LRR C) Lat: Long: Datum: NAD 83
Soil Map Unit Name: (106) and (107) Andregg coarse sandy loam NWI Classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X* No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes	No X	**Is the Sampled Area within a Wetland?** Yes No X
Hydric Soil Present?	Yes	No X	
Wetland Hydrology Present?	Yes	No X	

Remarks:*Placer County is in a Severe Drought, which is typical of recent rain years.

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status
Tree Stratum (Plot size:)			
1.			
2.			
3.			
4.			
	0 =Total Cover		
Sapling/Shrub Stratum (Plot size:)			
1.			
2.			
3.			
4.			
5.			
	0 =Total Cover		
Herb Stratum (Plot size: 1 meter^2)			
1. *Paspalum dilatatum*	40	Y	FAC
2. *Stipa (Oloptum) miliaceam*	30	Y	UPL
3.			
4.			
5.			
6.			
7.			
8.			
	70 =Total Cover		
Woody Vine Stratum (Plot size:)			
1.			
2.			
	=Total Cover		
% Bare Ground in Herb Stratum 30*	% Cover of Biotic Crust		

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: **1** (A)
Total Number of Dominant Species Across All Strata: **2** (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: **50%** (A/B)

Prevalence Index Worksheet:

Total % Cover of:		Multiply by:	
OBL species	**0**	x1 =	**0**
FACW species	**0**	x2 =	**0**
FAC species	**40**	x3 =	**120**
FACU species	**0**	x4 =	**0**
UPL species	**30**	x5 =	**150**
Column Totals:	**70** (A)		**270** (B)

Prevalence Index = B/A = **3.9**

Hydrophytic Vegetation Indicators:
Dominance Test is >50%
Prevalence Index is ≤3.0[1]
Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes No X

Remarks:* Thatch

SOIL

Sampling Point: DP-4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-10	10 YR 5/2	100					Sandy 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.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** _____ **No** X

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary 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**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches): _____

Water Table Present? Yes _____ No X Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No X Depth (inches): _____

Wetland Hydrology Present? **Yes** _____ **No** X

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

Remarks: No inundation or saturation visable on aerial imagery.

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Premier Montaire City/County: Loomis/ Placer Sampling Date: 10/07/22
Applicant/Owner: Premier Homes CA Sampling Point: DP-5
Investigator(s): Bonnie Peterson/Madrone Ecological Section, Township, Range: Section 21, Township 11 North, Range 7 East
Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): none Slope (%): 1
Subregion (LRR): Mediterranean California (LRR C) Lat: Long: Datum: NAD 83
Soil Map Unit Name: (106) Andregg coarse sandy loam NWI Classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X* No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No	**Is the Sampled Area within a Wetland?** Yes No X
Hydric Soil Present?	Yes	No X	
Wetland Hydrology Present?	Yes	No X	

Remarks:*Placer County is in a Severe Drought, which is typical of recent rain years. Point located in topographical swale east of the perennial pond and used to establish upland boundary of the fringe wetlands. Area lacks sufficent watershed/flow to have developed wetland characteristics upslope of this area. Upslope areas are dominated by annual grassland vegetation.

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status
Tree Stratum (Plot size:)			
1.			
2.			
3.			
4.			
	0	=Total Cover	
Sapling/Shrub Stratum (Plot size:)			
1.			
2.			
3.			
4.			
5.			
	0	=Total Cover	
Herb Stratum (Plot size: 1 meter^2)			
1. *Mentha pulegium*	30	Y	OBL
2. *Holcus lananthus*	10	N	FAC
3. *Euthamia occidentalis*	40	Y	FACW
4. *Epilobium densiflorum*	5	N	FACW
5.			
6.			
7.			
8.			
	85	=Total Cover	
Woody Vine Stratum (Plot size:)			
1.			
2.			
		=Total Cover	

% Bare Ground in Herb Stratum 15 % Cover of Biotic Crust

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: **2** (A)
Total Number of Dominant Species Across All Strata: **2** (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: **100%** (A/B)

Prevalence Index Worksheet:

Total % Cover of:		Multiply by:	
OBL species	**30**	x1 =	**30**
FACW species	**45**	x2 =	**90**
FAC species	**10**	x3 =	**30**
FACU species	**0**	x4 =	**0**
UPL species	**0**	x5 =	**0**
Column Totals:	**85** (A)		**150** (B)

Prevalence Index = B/A = **1.8**

Hydrophytic Vegetation Indicators:
X Dominance Test is >50%
X Prevalence Index is ≤3.0[1]
Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No

Remarks:

SOIL

Sampling Point: DP 5

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-10	10 YR 3/2	100					Sandy 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.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** _____ **No** X

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary 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**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches): _____

Water Table Present? Yes _____ No X Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No X Depth (inches): _____

Wetland Hydrology Present? **Yes** _____ **No** X

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Premier Montaire City/County: Loomis/ Placer Sampling Date: 10/07/22
Applicant/Owner: Premier Homes CA Sampling Point: DP-6
Investigator(s): Bonnie Peterson/Madrone Ecological Section, Township, Range: Section 21, Township 11 North, Range 7 East
Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Concave Slope (%): 0
Subregion (LRR): Mediterranean California (LRR C) Lat: Long: Datum: NAD 83
Soil Map Unit Name: (106) Andregg coarse sandy loam NWI Classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X* No (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No	**Is the Sampled Area within a Wetland?** Yes X No
Hydric Soil Present?	Yes X	No	
Wetland Hydrology Present?	Yes X	No	

Remarks:*Placer County is in a Severe Drought, which is typical of recent rain years. Point is located in the fringes of the perennial pond under a dead Quercus wislizeni var. wislizeni.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	0	=Total Cover	
Sapling/Shrub Stratum (Plot size: ____)			
1.			
2.			
3.			
4.			
5.			
	0	=Total Cover	
Herb Stratum (Plot size: 1 meter^2)			
1. *Phytolacca americana var. americana*	10	N	FACU
2. *Solanum nigrum*	10	N	FACU
3. *Mentha pulegium*	20	Y	OBL
4. *Xanthium strumarium*	20	Y	FAC
5. *Euthamia occidentalis*	40	Y	FACW
6.			
7.			
8.			
	100	=Total Cover	
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
		=Total Cover	
% Bare Ground in Herb Stratum 0	% Cover of Biotic Crust 10		

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: **3** (A)
Total Number of Dominant Species Across All Strata: **3** (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: **100%** (A/B)

Prevalence Index Worksheet:

Total % Cover of:		Multiply by:	
OBL species	**20**	x1 =	**20**
FACW species	**40**	x2 =	**80**
FAC species	**20**	x3 =	**60**
FACU species	**20**	x4 =	**80**
UPL species	**0**	x5 =	**0**
Column Totals:	**100** (A)		**240** (B)

Prevalence Index = B/A = **2.4**

Hydrophytic Vegetation Indicators:
X Dominance Test is >50%
X Prevalence Index is ≤3.0[1]
____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? X **Yes** ____ **No** ____

Remarks:

SOIL

Sampling Point: DP-6

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10 yr 3/1	100					Sandy 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.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- X Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: ___

Depth (inches): ___

Hydric Soil Present? **Yes** X **No** ___

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary 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**)
- ___ Surface Soil Cracks (B6)
- X Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- X Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- X 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)

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): ___

Water Table Present? Yes ___ No X Depth (inches): ___

Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): ___

Wetland Hydrology Present? **Yes** X **No** ___

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Premier Montaire City/County: Loomis/ Placer Sampling Date: 10/07/22
Applicant/Owner: Premier Homes CA Sampling Point: DP-7
Investigator(s): Bonnie Peterson/Madrone Ecological Section, Township, Range: Section 21, Township 11 North, Range 7 East
Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Concave Slope (%): 0
Subregion (LRR): Mediterranean California (LRR C) Lat: Long: Datum: NAD 83
Soil Map Unit Name: (106) Andregg coarse sandy loam NWI Classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X* No (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No	**Is the Sampled Area within a Wetland?** Yes X No
Hydric Soil Present?	Yes X	No	
Wetland Hydrology Present?	Yes X	No	

Remarks:*Placer County is in a Severe Drought, which is typical of recent rain years. Point is located in seasonal wetland SW-3.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	0 =Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1.			
2.			
3.			
4.			
5.			
	0 =Total Cover		
Herb Stratum (Plot size: 1 meter^2)			
1. *Holcus lananthus*	80	Y	FAC
2. *Juncus xiphioides*	20	N	OBL
3.			
4.			
5.			
6.			
7.			
8.			
	100 =Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	=Total Cover		
% Bare Ground in Herb Stratum	% Cover of Biotic Crust		

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: **1** (A)
Total Number of Dominant Species Across All Strata: **1** (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: **100%** (A/B)

Prevalence Index Worksheet:

Total % Cover of:		Multiply by:	
OBL species	**20**	x1 =	**20**
FACW species	**0**	x2 =	**0**
FAC species	**80**	x3 =	**240**
FACU species	**0**	x4 =	**0**
UPL species	**0**	x5 =	**0**
Column Totals:	**100** (A)		**260** (B)

Prevalence Index = B/A = **2.6**

Hydrophytic Vegetation Indicators:
X Dominance Test is >50%
X Prevalence Index is ≤3.0[1]
____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No

Remarks:

SOIL

Sampling Point: DP-7

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	10 yr 3/2	100					Sandy loam	
4-12	10 yr 4/1	95	5 yr 4/6	5	C	M	Sand	

[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.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- X Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: ___

Depth (inches): ___

Hydric Soil Present? **Yes** X **No** ___

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary 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**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- X Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- X Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): ___

Water Table Present? Yes ___ No X Depth (inches): ___

Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): ___

Wetland Hydrology Present? **Yes** X **No** ___

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Premier Montaire City/County: Loomis/ Placer Sampling Date: 08/23/22
Applicant/Owner: Premier Homes CA Sampling Point: DP-8
Investigator(s): Bonnie Peterson/Madrone Ecological Section, Township, Range: Section 21, Township 11 North, Range 7 East
Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): noneX Slope (%): 0
Subregion (LRR): Mediterranean California (LRR C) Lat: Long: Datum: NAD 83
Soil Map Unit Name: (106) and (107) Andregg coarse sandy loam NWI Classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X* No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No	**Is the Sampled Area within a Wetland?** Yes X No
Hydric Soil Present?	Yes X	No	
Wetland Hydrology Present?	Yes X	No	

Remarks:*Placer County is in a Severe Drought, which is typical of recent rain years.

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status
Tree Stratum (Plot size:)			
1.			
2.			
3.			
4.			
	0	=Total Cover	
Sapling/Shrub Stratum (Plot size:)			
1.			
2.			
3.			
4.			
5.			
	0	=Total Cover	
Herb Stratum (Plot size: 1 meter^2)			
1. *Euthamia occidentalis*	20	Y	FACW
2. *Mentha pulegium*	10	N	OBL
3. *Gnaphalium palustre*	20	Y	FACW
4. *Juncus balticus*	20	Y	FACW
5.			
6.			
7.			
8.			
	70	=Total Cover	
Woody Vine Stratum (Plot size:)			
1.			
2.			
		=Total Cover	
% Bare Ground in Herb Stratum	% Cover of Biotic Crust 30		

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: **3** (A)
Total Number of Dominant Species Across All Strata: **3** (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: **100%** (A/B)

Prevalence Index Worksheet:

Total % Cover of:		Multiply by:	
OBL species	**10**	x1 =	**10**
FACW species	**60**	x2 =	**120**
FAC species	**0**	x3 =	**0**
FACU species	**0**	x4 =	**0**
UPL species	**0**	x5 =	**0**
Column Totals:	**70** (A)		**130** (B)

Prevalence Index = B/A = **1.9**

Hydrophytic Vegetation Indicators:
X Dominance Test is >50%
X Prevalence Index is ≤3.0[1]
Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No

Remarks:

SOIL

Sampling Point: DP-8

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10 yr 3/1	100					Sandy 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.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- X Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** ___

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary 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**)
- ___ Surface Soil Cracks (B6)
- X Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- X Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): ___

Water Table Present? Yes ___ No X Depth (inches): ___

Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): ___

Wetland Hydrology Present? **Yes** X **No** ___

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Premier Montaire City/County: Loomis/ Placer Sampling Date: 08/23/22
Applicant/Owner: Premier Homes CA Sampling Point: DP-9
Investigator(s): Bonnie Peterson/Madrone Ecological Section, Township, Range: Section 21, Township 11 North, Range 7 East
Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Concave Slope (%): 0
Subregion (LRR): Mediterranean California (LRR C) Lat: Long: Datum: NAD 83
Soil Map Unit Name: (106) Andregg coarse sandy loam NWI Classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X* No (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes	No X	**Is the Sampled Area within a Wetland?**	**Yes**	**No X**
Hydric Soil Present?	Yes X	No			
Wetland Hydrology Present?	Yes X	No			

Remarks:*Placer County is in a Severe Drought, which is typical of recent rain years. Point selected to determine upland transition of pond and adjacnet wetland habitats.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	0	=Total Cover	
Sapling/Shrub Stratum (Plot size: ____)			
1.			
2.			
3.			
4.			
5.			
	0	=Total Cover	
Herb Stratum (Plot size: 1 meter^2)			
1. *Dittrichia graveolens*	10	N	UPL
2. *Euphorbia maculata*	10	N	UPL
3. *Paspalum dilatatum*	40	Y	FAC
4. *Cynodon dactylon*	30	Y	FACU
5. *Euthamia occidentalis*	5	N	FACW
6.			
7.			
8.			
	95	=Total Cover	
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
		=Total Cover	
% Bare Ground in Herb Stratum 0	% Cover of Biotic Crust 5		

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: **1** (A)
Total Number of Dominant Species Across All Strata: **2** (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: **50%** (A/B)

Prevalence Index Worksheet:

Total % Cover of:		Multiply by:	
OBL species	**0**	x1 =	**0**
FACW species	**5**	x2 =	**10**
FAC species	**40**	x3 =	**120**
FACU species	**30**	x4 =	**120**
UPL species	**15**	x5 =	**75**
Column Totals:	**90** (A)		**325** (B)

Prevalence Index = B/A = **3.6**

Hydrophytic Vegetation Indicators:
____ Dominance Test is >50%
____ Prevalence Index is ≤3.0[1]
____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** ____ **No X**

Remarks:

SOIL

Sampling Point: DP-9

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10 yr 3/1	100					Sandy 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.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- X Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** ___

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary 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**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- X Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): ___

Water Table Present? Yes ___ No X Depth (inches): ___

Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): ___

Wetland Hydrology Present? **Yes** X **No** ___

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Premier Montaire City/County: Loomis/ Placer Sampling Date: 10/07/22
Applicant/Owner: Premier Homes CA Sampling Point: DP-10
Investigator(s): Bonnie Peterson/Madrone Ecological Section, Township, Range: Section 21, Township 11 North, Range 7 East
Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Concave Slope (%): 0
Subregion (LRR): Mediterranean California (LRR C) Lat: Long: Datum: NAD 83
Soil Map Unit Name: (106) Andregg coarse sandy loam NWI Classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X* No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes	No X	**Is the Sampled Area within a Wetland?** Yes No X
Hydric Soil Present?	Yes	No X	
Wetland Hydrology Present?	Yes X	No	

Remarks:*Placer County is in a Severe Drought, which is typical of recent rain years. Point is located in an unvegetated depression under a live oak tree. Wetland indicators limited to water stained leaves. No clear drainage flow up or downslope of this point and surrounding vegetation is upland annual grassland.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 1 meter2)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Quercus wislizeni*	100	Y	UPL
2.			
3.			
4.			
	100 =Total Cover		
Sapling/Shrub Stratum (Plot size:)			
1.			
2.			
3.			
4.			
5.			
	0 =Total Cover		
Herb Stratum (Plot size: 1 meter^2)			
1. *None*			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	0 =Total Cover		
Woody Vine Stratum (Plot size:)			
1.			
2.			
	=Total Cover		
% Bare Ground in Herb Stratum	% Cover of Biotic Crust		

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: **0** (A)
Total Number of Dominant Species Across All Strata: **1** (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: **0%** (A/B)

Prevalence Index Worksheet:

Total % Cover of:		Multiply by:	
OBL species	**0**	x1 =	**0**
FACW species	**0**	x2 =	**0**
FAC species	**0**	x3 =	**0**
FACU species	**0**	x4 =	**0**
UPL species	**100**	x5 =	**500**
Column Totals:	**100** (A)		**500** (B)

Prevalence Index = B/A = **5.0**

Hydrophytic Vegetation Indicators:
Dominance Test is >50%
Prevalence Index is ≤3.0[1]
Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes No X

Remarks:

SOIL

Sampling Point: DP-10

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-8	10 yr 3/2	100					Sandy 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.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ___ **No** X

Remarks: Thick oak roots at 8"

HYDROLOGY

Wetland Hydrology Indicators:

Primary 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**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- X Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): _____

Water Table Present? Yes ___ No X Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): _____

Wetland Hydrology Present? **Yes** X **No** ___

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Premier Montaire City/County: Loomis/ Placer Sampling Date: 10/07/22
Applicant/Owner: Premier Homes CA Sampling Point: DP-11
Investigator(s): Bonnie Peterson/Madrone Ecological Section, Township, Range: Section 21, Township 11 North, Range 7 East
Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): none Slope (%): 2
Subregion (LRR): Mediterranean California (LRR C) Lat: Long: Datum: NAD 83
Soil Map Unit Name: (106) and (107) Andregg coarse sandy loam NWI Classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X* No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No	**Is the Sampled Area within a Wetland?** Yes X No
Hydric Soil Present?	Yes X	No	
Wetland Hydrology Present?	Yes X	No	

Remarks:*Placer County is in a Severe Drought, which is typical of recent rain years. Located in seep S-1. Himalayan blackberry and willow located along northern edge of seep.

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status
Tree Stratum (Plot size:)			
1.			
2.			
3.			
4.			
	0	=Total Cover	
Sapling/Shrub Stratum (Plot size:)			
1.			
2.			
3.			
4.			
5.			
	0	=Total Cover	
Herb Stratum (Plot size: 1 meter^2)			
1. *Juncus balticus*	70	Y	FACW
2. *Juncus xiphioides*	20	N	OBL
3. *Holcus lanatus*	10	N	FAC
4.			
5.			
6.			
7.			
8.			
	100	=Total Cover	
Woody Vine Stratum (Plot size:)			
1.			
2.			
		=Total Cover	
% Bare Ground in Herb Stratum 0	% Cover of Biotic Crust 0		

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: **1** (A)
Total Number of Dominant Species Across All Strata: **1** (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: **100%** (A/B)

Prevalence Index Worksheet:

Total % Cover of:		Multiply by:
OBL species	**20**	x1 = **20**
FACW species	**70**	x2 = **140**
FAC species	**10**	x3 = **30**
FACU species	**0**	x4 = **0**
UPL species	**0**	x5 = **0**
Column Totals:	**100** (A)	**190** (B)

Prevalence Index = B/A = **1.9**

Hydrophytic Vegetation Indicators:
X Dominance Test is >50%
X Prevalence Index is ≤3.0[1]
Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No

Remarks:* Thatch

SOIL

Sampling Point: DP-11

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10 yr 3/1	100					Sandy 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.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- X Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** _____

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- X Water Marks (B1) (**Nonriverine**)
- ___ Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): _____

Water Table Present? Yes ___ No X Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): _____

Wetland Hydrology Present? **Yes** X **No** _____

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Premier Montaire City/County: Loomis/ Placer Sampling Date: 10/07/22
Applicant/Owner: Premier Homes CA Sampling Point: DP-12
Investigator(s): Bonnie Peterson/Madrone Ecological Section, Township, Range: Section 21, Township 11 North, Range 7 East
Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): none Slope (%): 2
Subregion (LRR): Mediterranean California (LRR C) Lat: Long: Datum: NAD 83
Soil Map Unit Name: (106) and (107) Andregg coarse sandy loam NWI Classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X* No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes	No X	**Is the Sampled Area within a Wetland?** Yes No X
Hydric Soil Present?	Yes	No X	
Wetland Hydrology Present?	Yes	No X	

Remarks:*Placer County is in a Severe Drought, which is typical of recent rain years. Located on gentle slope south of seep.

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status
Tree Stratum (Plot size:)			
1.			
2.			
3.			
4.			
	0	=Total Cover	
Sapling/Shrub Stratum (Plot size:)			
1.			
2.			
3.			
4.			
5.			
	0	=Total Cover	
Herb Stratum (Plot size: 1 meter^2)			
1. *Paspalum dilatatum*	10	N	FAC
2. *Stipa (Oloptum) miliaceam*	10	N	UPL
3. *Elymus caput-medusae*	15	N	UPL
4. *Avena barbata*	35	Y	UPL
5. *Bromus hordeacus*	20	Y	UPL
6. *Festuca perennis*	10	N	FACU
7.			
8.			
	100	=Total Cover	
Woody Vine Stratum (Plot size:)			
1.			
2.			
		=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: **0** (A)
Total Number of Dominant Species Across All Strata: **2** (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: **0%** (A/B)

Prevalence Index Worksheet:

Total % Cover of:		Multiply by:
OBL species	**0** x1 =	**0**
FACW species	**0** x2 =	**0**
FAC species	**10** x3 =	**30**
FACU species	**10** x4 =	**40**
UPL species	**80** x5 =	**400**
Column Totals:	**100** (A)	**470** (B)

Prevalence Index = B/A = **4.7**

Hydrophytic Vegetation Indicators:
Dominance Test is >50%
Prevalence Index is ≤3.0[1]
Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes No X

Remarks:* Thatch

SOIL

Sampling Point: DP-12

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-8	10 yr 3/2	100					Sandy 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.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** _____ **No** X

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary 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**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches): _____

Water Table Present? Yes _____ No X Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No X Depth (inches): _____

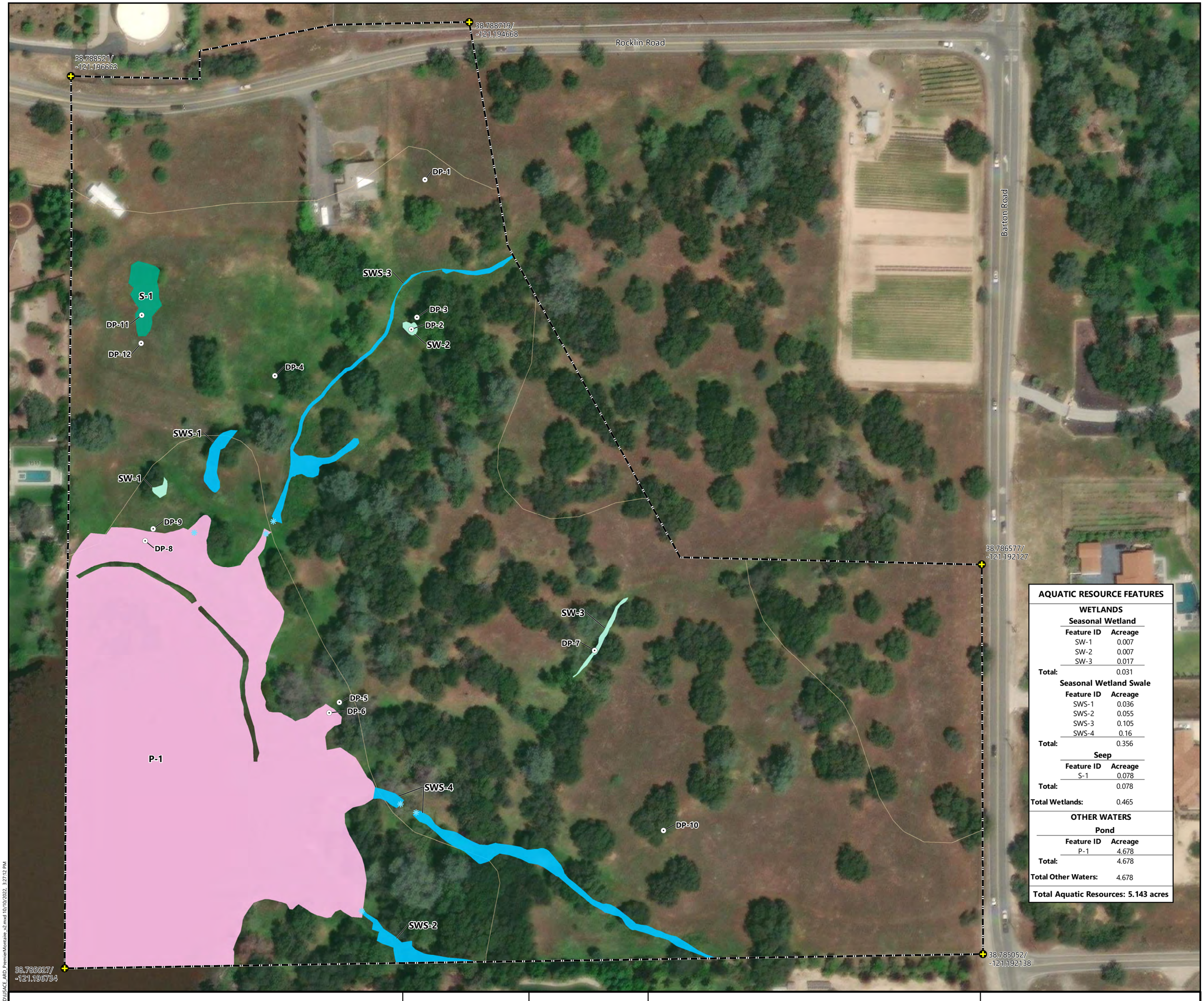
Wetland Hydrology Present? **Yes** _____ **No** X

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

Remarks:

Attachment B

Aquatic Resources Delineation



AQUATIC RESOURCE FEATURES

WETLANDS

Seasonal Wetland

Feature ID	Acreage
SW-1	0.007
SW-2	0.007
SW-3	0.017
Total:	0.031

Seasonal Wetland Swale

Feature ID	Acreage
SWS-1	0.036
SWS-2	0.055
SWS-3	0.105
SWS-4	0.16
Total:	0.356

Seep

Feature ID	Acreage
S-1	0.078
Total:	0.078

Total Wetlands: 0.465

OTHER WATERS

Pond

Feature ID	Acreage
P-1	4.678
Total:	4.678

Total Other Waters: 4.678

Total Aquatic Resources: 5.143 acres

Notes:

Map Scale: 1 inch = 100 feet
Coordinate System: NAD 1983 State Plane California II
Datum: NAD83
Projection: Lambert Conformal Conic
Topographic Contours: USGS NED 1/3 arc-second Contours for Sacramento W, California. 1 October 2018
Aerial Base: Maxar
Aerial Base Flown: 1 May 2022

Delineation Performed by: B. Peterson
Map Prepared by: N. Bente
Date Map Prepared: 10 October 2022
Definitions:
NAD = North American Datum
NAVD = North American Vertical Datum

Prepared For:

Premier 40, LLC
8483 Douglas Plaza Drive
Granite Bay, CA 95746

N

Feet
0 50 100

- Study Area Boundary (29 acres)
- Reference Point
- Data Point
- Culvert
- Ground Surface Elevation, 20 foot contour

Aquatic Resources (5.143 acres)

Wetlands (0.465 acres)
- Seasonal Wetland (0.031 acre)
- Seasonal Wetland Swale (0.356 acre)
- Seep (0.078 acre)

Other Waters (4.678 acres)
- Pond (4.678 acres)

Aquatic Resources Delineation
Premier Montaire

Town of Loomis, Placer County, California

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

Attachment C

Plant Species Observed within the Study Area

Premier Montaire
Plant Species Observed 23 August and 7 October 2022

Species Name	**Common Name**	**Wetland Rating***
Epilobium ciliatum subsp. ciliatum	Slender willowherb	UPL
Chlorogalum pomeridianum var. pomeridianum	Common soap plant	UPL
Alisma triviale	Northern water plantain	OBL
Toxicodendron diversilobum	Western poison oak	FACU
Ambrosia trifida	Giant ragweed	FAC
Baccharis pilularis subsp. pilularis	Coyote brush	UPL
Carduus pycnocephalus subsp. pycnocephalus	Italian thistle	UPL
Centaurea solstitialis	Yellow star-thistle	UPL
Centromadia fitchii	Fitch's spikeweed	FACU
Cichorium intybus	Chicory	FACU
Dittrichia graveolens	Stinkwort	UPL
Erigeron canadensis	Horseweed	FACU
Euthamia occidentalis	Western goldenrod	FACW
Gnaphalium palustre	Western marsh cudweed	FACW
Holocarpha virgata subsp. virgata	Slender tarweed	UPL
Hypochaeris glabra	Smooth cat's-ear	UPL
Lactuca serriola	Prickly lettuce	FACU
Madia elegans	Common madia	UPL
Silybum marianum	Milk thistle	UPL
Sonchus asper subsp. asper	Prickly sow thistle	FAC
Tragopogon porrifolius	Salsify	UPL
Xanthium strumarium	Cocklebur	FAC
Azolla microphylla	Mexican mosquito fern	OBL
Amsinckia menziesii	Common fiddleneck	UPL
Brassica nigra	Black mustard	UPL
Raphanus sativus	Radish	UPL
Silene gallica	Small-flower catchfly	UPL
Spergula arvensis	Corn spurrey	UPL
Spergularia rubra	Red sand-spurrey	FAC
Convolvulus arvensis	Bindweed	UPL
Cyperus eragrostis	Tall nutsedge	FACW
Eleocharis macrostachya	Creeping spikerush	OBL
Croton setiger	Turkey-mullein	UPL
Euphorbia maculata	Spotted spurge	UPL
Acmispon americanus var. americanus	Spanish lotus	UPL
Trifolium hirtum	Rose clover	UPL
Vicia villosa subsp. varia	Winter vetch	UPL
Quercus lobata	Valley oak	FACU
Quercus wislizeni var. wislizeni	Interior live oak	UPL
Zeltnera muehlenbergii	Monterey centaury	FAC
Erodium botrys	Filaree	FACU
Geranium dissectum	Cut-leaf geranium	UPL
Geranium molle	Soft geranium	UPL
Hypericum perforatum subsp. perforatum	Klamathweed	FACU

Species Name	**Common Name**	**Wetland Rating***
Juncus balticus	Baltic rush	FACW
Juncus bufonius	Toad rush	FACW
Juncus xiphioides	Iris-leaved rush	OBL
Mentha pulegium	Pennyroyal	OBL
Lythrum hyssopifolia	Hyssop loosestrife	OBL
Abutilon theophrasti	Velvet-leaf	UPL
Ficus carica	Edible fig	FACU
Ligustrum species	Privet	UPL
Ludwigia peploides	Water primrose	OBL
Phytolacca americana var. americana	Pokeweed	FAC
Pinus sabiniana	Gray, ghost, or foothill pine	UPL
Plantago lanceolata	English plantain	FAC
Agrostis avenacea	Pacific bent grass	UPL
Aira caryophyllea	Silver hair grass	FACU
Avena barbata	Slender wild oat	UPL
Avena fatua	Wild oat	UPL
Briza minor	Annual quaking grass	FAC
Bromus diandrus	Ripgut grass	UPL
Bromus hordeaceus	Soft chess	FACU
Crypsis schoenoides	Swamp prickle grass	FACW
Cynodon dactylon	Bermuda grass	FACU
Cynosurus echinatus	Bristly dogtail grass	UPL
Digitaria sanguinalis	Hairy crab grass	FACU
Echinochloa crus-galli	Barnyard grass	FACW
Elymus caput-medusae	Medusa head	UPL
Festuca arundinacea	Tall fescue	UPL
Festuca bromoides	Brome fescue	FACU
Festuca myuros	Rattail sixweeks grass	FACU
Festuca perennis	Rye grass	FAC
Glyceria declinata	Low manna grass	FACW
Holcus lanatus	Common velvet grass	FAC
Hordeum marinum subsp. gussoneanum	Mediterranean barley	FAC
Hordeum murinum subsp. murinum		UPL
Paspalum dilatatum	Dallis grass	FAC
Phalaris paradoxa	Hood canary grass	FAC
Poa annua	Annual blue grass	FAC
Polypogon monspeliensis	Annual rabbitfoot grass	FACW
Sorghum halepense	Johnson grass	FACU
Stipa miliacea var. miliacea	Smilo grass	UPL
Polygonum aviculare	Knotweed, knotgrass	FAC
Polygonum aviculare subsp. depressum	Prostrate knotweed	FAC
Rumex acetosella	Sheep sorrel	FACU
Rumex conglomeratus	Cluster dock	FACW
Rumex crispus	Curly dock	FAC

Premier Montaire
Plant Species Observed 23 August and 7 October 2022

Species Name	**Common Name**	**Wetland Rating***
Rumex pulcher	Fiddle dock	FAC
Prunus dulcis	Almond	UPL
Rubus armeniacus	Armenian blackberry	FAC
Galium aparine	Goose grass	FACU
Populus fremontii subsp. fremontii	Fremont cottonwood	FAC
Salix exigua	Sandbar willow	FACW
Salix gooddingii	Goodding's black willow	FACW
Salix lasiolepis	Arroyo willow	FACW
Verbascum blattaria	Moth mullein	UPL
Dichelostemma multiflorum	Wild hyacinth	UPL
Typha angustifolia	Narrow-leaved cattail	OBL

* Arid West Rating from the U.S. Army Corps of Engineers 2022. National Wetland Plant List, version 3.4, http://wetlandplants.usace.army.mil/, U.S. Army Corps of Engineers Engineer Research and Development Center Cold Regions Research and Engineering Laboratory, Hanover, NH

Attachment D

Representative Site Photographs

Data Point DP-1, Representative upland facing north towards Rocklin Road, 23 August 2022

Data Point DP-2, In seasonal wetland SW-2 facing north, 23 August 2022

Data Point DP-3, North of seasonal wetland SW-2 facing north, 23 August 2022

Data Point DP-4, North of stockpile/berm, 23 August 2022

Data Point DP-5, east of the perennial pond facing east, 7 October 2022

Data Point DP-6, within the wetland fringe of the perennial pond facing west, 7 October 2022

Data Point DP-7, In seasonal wetland SW-3 facing southwest, 7 October 2022

Data Point DP-8, northern wetland fringe of the perennial pond facing south, 23 August 2022

Data Point DP-8, northern wetland fringe of the perennial pond facing southeast, 23 August 2022

Data point DP-9, just north of pond and adjacent wetlands facing southwest, 23 August 2022

Data Point DP-10, Upland depression under an oak, 7 October 2022

Data Point DP-11, In seep S-1 facing north, 7 October 2022

Data Point DP-12, South of seep S-1 facing south, 7 October 2022

Seasonal wetland swale SWS-2 boundary with perennial pond (P-1), 7 October 2022

Typical uplland in northeastern portion of the Study Area, 7 October 2022

Attachment E

Aquatic Resources Excel Spreadsheet

Waters_Name	State	Cowardin_Code	HGM_Code	Meas_Type	Amount	Units	Waters_Type	Latitude	Longitude	Local_Waterway
SW-1	CALIFORNIA	PEM		Area	0.007	ACRE	DELINEATE	38.78689979	-121.1962312	
SW-2	CALIFORNIA	PEM		Area	0.007	ACRE	DELINEATE	38.7875234	-121.1949758	
SW-3	CALIFORNIA	PEM		Area	0.017	ACRE	DELINEATE	38.78631003	-121.1940289	
SWS-1	CALIFORNIA	PEM		Area	0.036	ACRE	DELINEATE	38.78701291	-121.1959539	
SWS-2	CALIFORNIA	PEM		Area	0.055	ACRE	DELINEATE	38.78509669	-121.1950221	
SWS-3	CALIFORNIA	PEM		Area	0.105	ACRE	DELINEATE	38.78721228	-121.1953024	
SWS-4	CALIFORNIA	PEM		Area	0.16	ACRE	DELINEATE	38.78541149	-121.1944142	
S-1	CALIFORNIA	PEM		Area	0.078	ACRE	DELINEATE	38.78766289	-121.1963036	
P-1	CALIFORNIA	L1		Area	4.678	ACRE	DELINEATE	38.78582926	-121.1960985	

Attachment F

Request for Aquatic Resource Verification or Jurisdictional Determination Form

REQUEST FOR AQUATIC RESOURCES DELINEATION VERIFICATION

OR JURISDICTIONAL DETERMINATION

A separate jurisdictional determination (JD) is not necessary to process a permit. An Approved Jurisdictional Determination (AJD) is required to definitively determine the extent of waters of the U.S. and is generally used to disclaim jurisdiction over aquatic resources that are not waters of the U.S., in cases where the review area contains no aquatic resources, and in cases when the recipient wishes to challenge the water of the U.S. determination on appeal. Either an Aquatic Resources Delineation Verification or a Preliminary Jurisdictional Determination (PJD) may be used when the recipient wishes to assume that aquatic resources are waters of the U.S. for the purposes of permitting. In some circumstances an AJD may require more information, a greater level of effort, and more time to produce. If you are unsure which product to request, please speak with your project manager or call the Sacramento District's general information line at (916) 557-5250.

I am requesting the product indicated below from the U.S. Army Corps of Engineers, Sacramento District, for the review area located at:

Street Address: 5840 Rocklin Road City: Loomis County: Placer
State: CA Zip: 95650 Section: 21 Township: 11 Range: 7
Latitude (decimal degrees): 38.786521 Longitude (decimal degrees): -121.194838
The approximate size of the review area for the JD is 29 acres. **(Please attach location map)**

Choose one:
- (•) I own the review area
- ( ) I hold an easement or development rights over the review area
- ( ) I lease the review area
- ( ) I plan to purchase the review area
- ( ) I am an agent/consultant acting on behalf of the requestor
- ( ) Other: _____

Choose one product:
- ( ) I am requesting an Aquatic Resources Delineation Verification
- ( ) I am requesting an Approved JD
- (•) I am requesting a Preliminary JD
- ( ) I am requesting additional information to inform my decision about which product to request

Reason for request: (check all that apply)
- [x] I need information concerning aquatic resources within the review area for planning purposes.
- [ ] I intend to construct/develop a project or perform activities in this review area which would be designed to avoid all aquatic resources.
- [ ] I intend to construct/develop a project or perform activities in this review area which would be designed to avoid those aquatic resources determined to be waters of the U.S.
- [ ] I intend to construct/develop a project or perform activities in this review area which may require authorization from the Corps; this request is accompanied by my permit application.
- [ ] I intend to construct/develop a project or perform activities in a navigable water of the U.S. which is included on the district's list of navigable waters under Section 10 of the Rivers and Harbors Act of 1899 and/or is subject to the ebb and flow of the tide.
- [ ] My lender, insurer, investors, local unit of government, etc. has indicated that an aquatic resources delineation verification is inadequate and is requiring a jurisdictional determination.
- [ ] I intend to contest jurisdiction over particular aquatic resources and request the Corps confirm that these aquatic resources are or are not waters of the U.S.
- [ ] I believe that the review area may be comprised entirely of dry land.
- [ ] Other: _____

Attached Information:
- [x] Maps depicting the general location and aquatic resources within the review area consistent with Map and Drawing Standards for the South Pacific Division Regulatory Program (Public Notice February 2016, http://www.spd.usace.army.mil/Missions/Regulatory/Public-Notices-and-References/Article/651327/updated-map-and-drawing-standards/)
- [ ] Aquatic Resources Delineation Report, if available, consistent with the Sacramento District's Minimum Standards for Acceptance (Public Notice January 2016, http://1.usa.gov/1V68IYa)

By signing below, you are indicating that you have the authority, or are acting as the duly authorized agent of a person or entity with such authority, to and do hereby grant Corps personnel right of entry to legally access the review area. Your signature shall be an affirmation that you possess the requisite property rights for this request on the subject property.

*Signature: _____ Date: _____
Name: Stefan Horstschraer Company name: Premier Homes LLC
Address: 8483 Douglas Plaza Dr.
Granite Bay, CA 95746
Telephone: 209-256-1971 Email: stefan@premierhomesca.com

***Authorities:** Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research, and Sanctuaries Act, Section 103, 33 USC 1413; Regulatory Program of the U.S. Army Corps of Engineers; Final Rule for 33 CFR Parts 320-332.
Principal Purpose: The information that you provide will be used in evaluating your request to determine whether there are any aquatic resources within the project area subject to federal jurisdiction under the regulatory authorities referenced above.
Routine Uses: This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public, and may be made available as part of a public notice as required by federal law. Your name and property location where federal jurisdiction is to be determined will be included in the approved jurisdictional determination (AJD), which will be made available to the public on the District's website and on the Headquarters USACE website.
Disclosure: Submission of requested information is voluntary; however, if information is not provided, the request for an AJD cannot be evaluated nor can an AJD be issued.