

**WETLAND DELINEATION
FOR THE
±66.4-ACRE VILLAGE AT LOOMIS STUDY AREA
TOWN OF LOOMIS, PLACER COUNTY, CALIFORNIA**



Prepared for:

**THE TRUE LIFE COMPANIES
12647 ALCOSTA BLVD., STE 470
SAN RAMON, CA 94583**

Prepared by:



12240 Herdal Drive, Ste. 14,
Auburn, California 95603
(530) 888-0130

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Wetland Delineation for the ±66.4-ACRE VILLAGE AT LOOMIS STUDY AREA

INTRODUCTION

Project Location

Salix Consulting, Inc. (Salix) delineated waters of the United States on the ±66.4-acre Village at Loomis Study Area (study area) located in the Town of Loomis, Placer County, California. The study area is located north of Interstate 80 (I-80), between Horseshoe Bar Road and King Road. Taylor Road is located just west of the property. The study area is situated in Section 10, Township 11 North and Range 7 East on the Rocklin, California 7.5-minute USGS topographic quadrangle (Figure 1). The approximate coordinates for the center of the property are: 38° 49' 20" N and 121° 11' 9" W.

Project Setting

The site occurs in the lower western foothills of the Sierra Nevada at elevations ranging between 380 and 400 feet. The site is relatively flat to somewhat rolling and supports a mixture of mostly foothill woodland and annual grassland with a large drainage with riparian wetland dominating the central portion of the site (Figure 2). The property is surrounded by development, including residential areas to the north and west, commercial businesses to the south, and Interstate 80 to the southeast.

Project Background

In 2007 North Fork Associates conducted a wetland delineation for a 24-acre portion of the study area formerly known as the Kimm Property (NFA 2007). The former Kimm Property occurs in what is now the central portion of the Village at Loomis study area. The Kimm property verification expired on March 5, 2014. Because there have been no changes to the property and the wetland boundaries remain the same, we are including that information in this larger area delineation without change, except for the inclusion of a small wetland along the eastern property boundary.

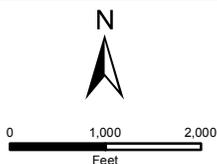
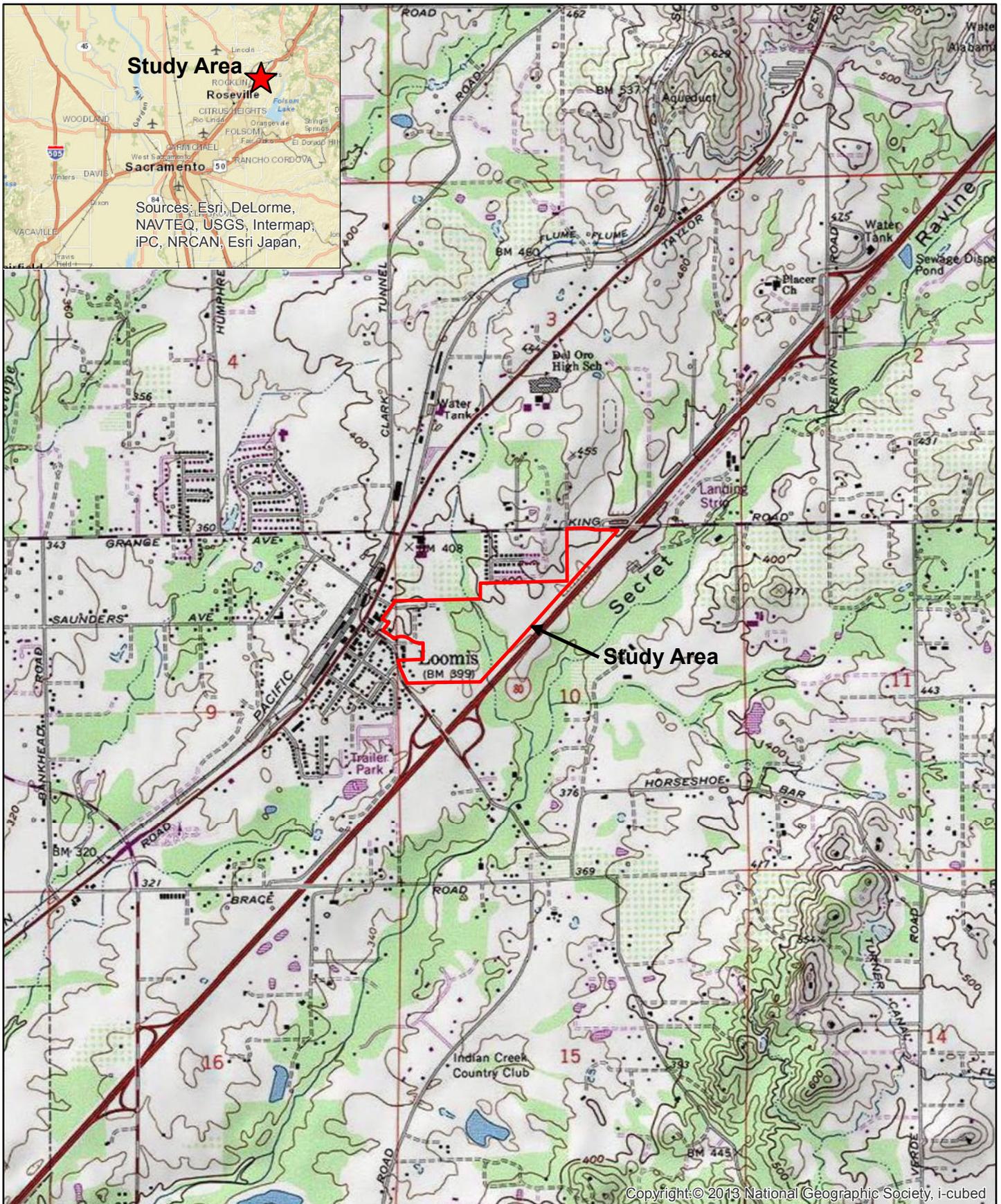
APPLICANT INFORMATION

Applicant

The True Life Companies
12647 Alcosta Blvd., Ste. 470
San Ramon, CA 94583
Phone: (916) 837-2266
Contact: Todd Chambers

Delineator

Salix Consulting, Inc.
12240 Herdal Drive, Suite 14
Auburn, California 95603
Phone: (530) 888-0130
Contact: Jeff Glazner



Source Maps: USGS Topographic Map, Rocklin (1981), CA Quadrangle 1:24,000

Figure 1

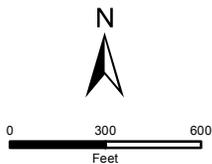
VICINITY MAP

Village At Loomis
Loomis, Placer County, CA



Google

Map Data ©2014



 Study Area (±66.4 acres)

2013 Aerial Photo

Figure 2

AERIAL PHOTO

Village At Loomis
Loomis, Placer County, CA

METHODS

Topographic mapping was obtained from TLA Engineering & Planning and composited with a recent aerial photo to create the wetland delineation basemap. Wetland boundaries and other field data were collected with the Trimble GeoXT 6000 GPS, differentially corrected and then used to create a Wetland Delineation Map using ArcGIS 10 software.

The delineation was conducted according to the 1987 Corps Manual (Environmental Laboratory 1987) as amended by the Arid West Regional Supplement (U.S. Army Corps of Engineers 2008). All areas of the site were observed by walking, and any area that may support wetlands was evaluated closely. Where closer evaluation was necessary, information about vegetation, soils, and hydrology was recorded on standard Wetland Delineation Data Forms (Appendix A).

Soil data was obtained from the NRCS online service at <http://websoilsurvey.nrcs.usda.gov> for Placer County Western Part Area. In the field, a Munsell Color (2000) chart was used to determine moist soil colors. Appendix B is a list of plants observed during the delineation, along with the scientific name and wetland status of each species according to Lichvar (2013). Species names are aligned with the the Jepson Manual (Baldwin et. al. 2012).

RESULTS

Climate

The region has a Mediterranean climate with dry hot summers and mild winters. Over the course of a year, average high temperatures typically vary from 54°F in the winter to around 92°F in the summer. The warm season lasts from May through September, with an average daily high temperature above 88°F. On average, the hottest months are July and August with an average high of 92°F and low of 61°F. The coolest months are December and January, with an average daily high temperature around 54°F and average low temperature around 40°F.

Precipitation occurs mostly from November through April in the form of rain, averaging around 25 inches per year. Little or no precipitation falls during June, July, and August.

Soils

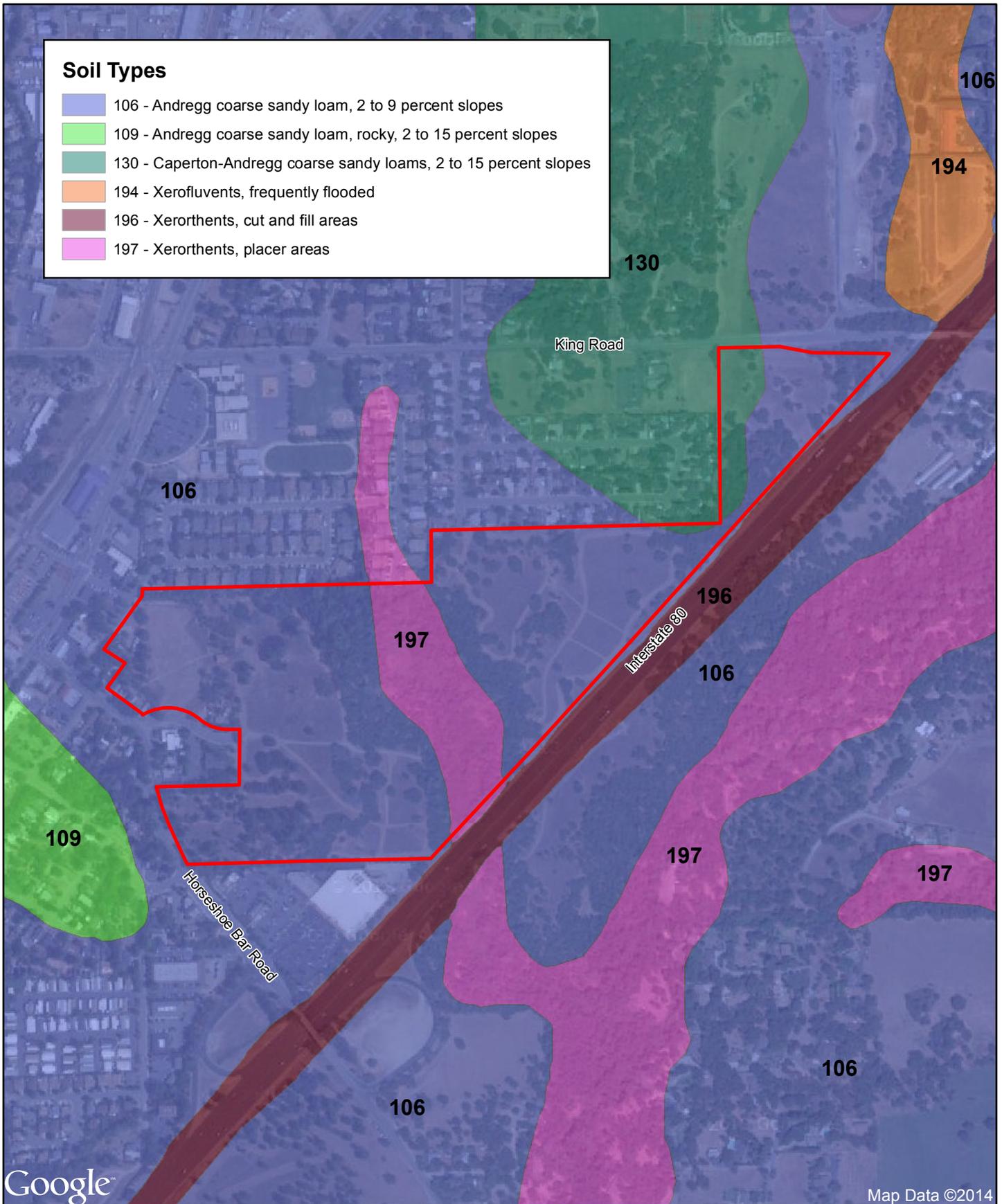
The geology map for the study area shows that soils are underlain by Mesozoic granitic rocks. Three soil units have been mapped within the study area (Figure 3) and include the following:

Andregg coarse sandy loam, 2 to 9 percent slopes

Andregg soils are coarse-loamy Ultic Haploxerolls, which are Mollisols formed in a Mediterranean climate and characterized by little subsoil development. They are derived from weathered granodiorite and bedrock is 20 to 40 inches below the surface. The A horizon extends to about 15 inches, and the BA horizon to about 24 inches. Andregg soils are well-drained and have moderately rapid permeability. This soil type occurs throughout most of the study area.

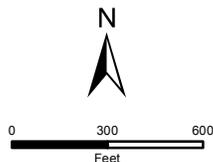
Soil Types

- 106 - Andregg coarse sandy loam, 2 to 9 percent slopes
- 109 - Andregg coarse sandy loam, rocky, 2 to 15 percent slopes
- 130 - Caperton-Andregg coarse sandy loams, 2 to 15 percent slopes
- 194 - Xerofluvents, frequently flooded
- 196 - Xerorthents, cut and fill areas
- 197 - Xerorthents, placer areas



Google

Map Data ©2014



Study Area (±66.4 acres)

2013 Aerial Photo

Figure 3

SOIL SURVEY MAP

Village At Loomis
Loomis, Placer County, CA

Caperton-Andregg coarse sandy loams, 2 to 15 percent slopes

Caperton soils are shallow Entic Haploxerolls, which are formed from shallow weathered granodiorite and quartz diorite. Bedrock is generally 18 to 22 inches from the surface. Caperton-Andregg soils are somewhat excessively drained. This soil type occurs in a small area in the northeastern corner of the study area.

Xerothents, placer areas

Xerothents, placer areas, consist of mine spoils or earthy fill that generally occur along drainages. These soils are well drained and depth to bedrock is greater than 80 inches. Within the study area, this soils type occurs in association with the riparian wetland and the perennial drainage in the central portion of the property.

Hydrology

The site generally slopes to the south and is well-drained. The primary hydrologic feature on the property is a perennial drainage near the center of the site. The perennial nature of the stream complex appears to be urban runoff that originates from the upslope developed area and outfalls through a pipe onto the property. The slope between the subdivision and Interstate 80 is approximately 5% gradient decline. There may also be a groundwater component to the system, but a positive determination of this was not made during the field survey. Once offsite, the stream crosses Interstate 80 in a culvert pipe and connects with Secret Ravine approximately 1/3 mile south of the project site. Secret Ravine drains into Miners Ravine, which connects with Dry Creek in Sacramento County. Dry Creek becomes the Natomas East Main Drainage Canal, which drains into the Sacramento River. There are a few other minor drainage features on the site in the eastern area, but all carry very little water.

Vegetation

Four primary biological communities are mapped in the Study Area and include foothill woodland, annual grassland, riparian wetland, and rural residential.

Foothill Woodland

Foothill woodland covers almost half of the Study Area (approximately 32 acres). Tree cover is variable throughout the site and tree density is highest in the central portion of the property, near the riparian wetland area, and in the northeastern portion of the site. The dominant tree on the site is interior live oak (*Quercus wislizeni*). Valley oak (*Quercus lobata*), blue oak (*Q. douglasii*), and foothill pine (*Pinus sabinana*) are also common throughout the study area. Some of the foothill pines in the western portion of the study area are massive and are susceptible to breaking due to high winds and their own weight. The shrub layer is very dense in some locations within the oak canopy and includes primarily California buckeye (*Aesculus californica*), and poison oak (*Toxicodendron diversilobum*). Other shrub and subshrub species include toyon (*Heteromeles arbutifolia*), Himalayan blackberry (*Rubus armeniacus*), and honeysuckle (*Lonicera interrupta*). Some naturalized almond trees (*Prunus dulcis*) and other fruit trees occur as part of the shrub/small tree layer throughout woodland areas of the site along with olive (*Olea europaea*) which is scattered across the entire site. The herbaceous layer is mostly dense grasses but also contains abundant goose grass (*Galium aparine*), miner's lettuce (*Claytonia perfoliata*), soap plant (*Chlorogalum pomeridianum*), and broad leaf filaree (*Erodium botrys*).

Annual Grassland

Approximately 22.1 acres of annual grassland occurs throughout the study area. Annual grassland within the property consists mostly of weedy annual species. Common species throughout annual grassland of the property include ripgut grass (*Bromus diandrus*), soft chess (*Bromus hordeaceus*), fiddleneck (*Amsinckia menziesii*), mustard (*Hirschfeldia incana*), plantain (*Plantago lanceolata*), California poppy (*Eschscholzia californica*), goose grass vetch (*Vicia sativa* and *V. villosa*), filaree (*Erodium botrys*), wild oat (*Avena fatua*), hedgehog dogtail (*Cynosurus echinatus*), yellow star thistle (*Centaurea solstitialis*) and prickly lettuce (*Lactuca serriola*). Poison oak is often found growing on rock outcrops scattered throughout annual grassland areas. Much of the grassland is periodically mowed for fire suppression purposes. In addition, a portion of grassland in the western portion of site experiences periodic disturbance resulting from use as a parking lot for local community events.

Riparian Wetland

Well-developed riparian wetland habitat occurs in the central portion of the property in association with the unnamed perennial stream. This community consists of a mosaic of wetland habitat types and covers approximately 9.3 acres. The overstory within the riparian wetland consists mainly of large Fremont cottonwoods (*Populus fremontii*) and valley oaks. Other tall woody species include Goodding's black willow (*Salix gooddingii*), arroyo willow (*Salix lasiolepis*), and red willow (*Salix laevigata*). The drainage that flows through the riparian wetland is a very shallow, braided network of slow-moving water that supports common freshwater marsh species including cattail (*Typha latifolia*), common knotweed (*Persicaria lapathifolia*), watercress (*Nasturtium officinale*), rice cutgrass (*Leersia oryzoides*), and broadleaf arrowhead (*Sagittaria latifolia*). Much of the riparian wetland contained either saturated soils or standing water less than a few inches deep at the time of the March field assessments. Streamflow within the perennial drainage is relatively low but persistent throughout the year. The primary water source is drainage pipes at the end of Sun Knoll Drive.

Rural Residential

Approximately 2.4 acres of the study area is rural residential. These areas occur in the western portion of the site and include a portion of the residential area along the western boundary and a single-family residence and associated outbuildings located just north of Library Drive. Vegetation in the vicinities of the residences consists mainly of ornamental plantings, with a few native oak trees.

Waters of the U.S

Four categories of waters of the United States totaling ±5.99 acres were mapped in the study area including: perennial stream, drainage ditch, seasonal wetland, and wetland swale. Waters of the U.S. are primarily concentrated in the large complex in the center of the site but also occur in other locations. The wetland categories are summarized in Table 1. Photos of the site are provided in Figures 4 and 5, and the delineation map is presented in in Figure 6.

Table 1
Waters of the United States with the Village at Loomis Study Area

Type	Acreage
Others Waters:	
Perennial Stream	5.53
Drainage Ditches (2)	0.01
<i>Total Other Waters</i>	<i>5.54</i>
Wetlands:	
Wetland Swales (3)	0.43
Seasonal Wetland (3)	0.02
<i>Total Wetlands</i>	<i>0.45</i>
Total Waters of the United States	5.99

An unnamed perennial tributary to Secret Ravine flows through a large riparian wetland area in the central portion of the site and exits the property via a culvert beneath I-80. The perennial stream originates from a culvert that flows beneath a large residential subdivision to the north (Figure 4).

Perennial Stream

The perennial stream that flows through the central portion of the property consists of a very shallow, braided channel totaling ±5.53 acres. Surface water depth was less than three (3) inches at the time of the March 2014 field assessments. The stream enters the site through a culvert that runs beneath an older subdivision located north of the property. The perennial nature of the stream appears to be urban runoff originating from developed areas to the north. The stream exits the site through a large culvert and then eventually connects with Secret Ravine less than 0.5 mile south of the study area. The perennial stream system supports many hydrophytic species in the herbaceous layer, shrub layer and tree layer.

Wetland Swales

Three wetland swales occur within the study area totaling ±0.43 acre. The larger of the swales drains into the perennial stream from the northwest (Figure 4). Another wetland swale flows from the northeast and also drains into the perennial stream. The smaller wetland swale is located in the eastern portion of the study area (Figure 5). The swale drains in a southeasterly direction toward I-80.

Seasonal Wetlands

Three seasonal wetlands are identified on the project site. Seasonal Wetland 1 is located in the eastern area at the bottom of a swale that is bermed by the toe slope of Interstate 80. It is located under a dense canopy of buckeye and live oak and supports little vegetation (Figure 5).

Seasonal Wetland 2 is located in the western area and is a depression along a shallow swale. Vegetation is primarily ryegrass. And Seasonal Wetland 3 is located at a culvert outfall along the gravel road that stubs into Interstate 80. It is a small depression that supports curly dock.

Drainage Ditches

Two drainage ditches are located in the eastern portion of the study area. One is located in the northeast corner of the property and drains water from north of King Road. It daylights onto the site in an open, black berry-lined channel, and flows south into a culvert that carries the water under Interstate 80.



Perennial Stream Complex (photo date 3-25-14).

Intermittent Stream looking north toward King Road (photo date 3-30-14).



Wetland Swale 3 within riparian area (photo date 3-30-14).



Wetland Swale 2 looking southeast toward Interstate 80 (photo date 3-28-14).



Seasonal Wetland 1 (photo date 3-25-14).



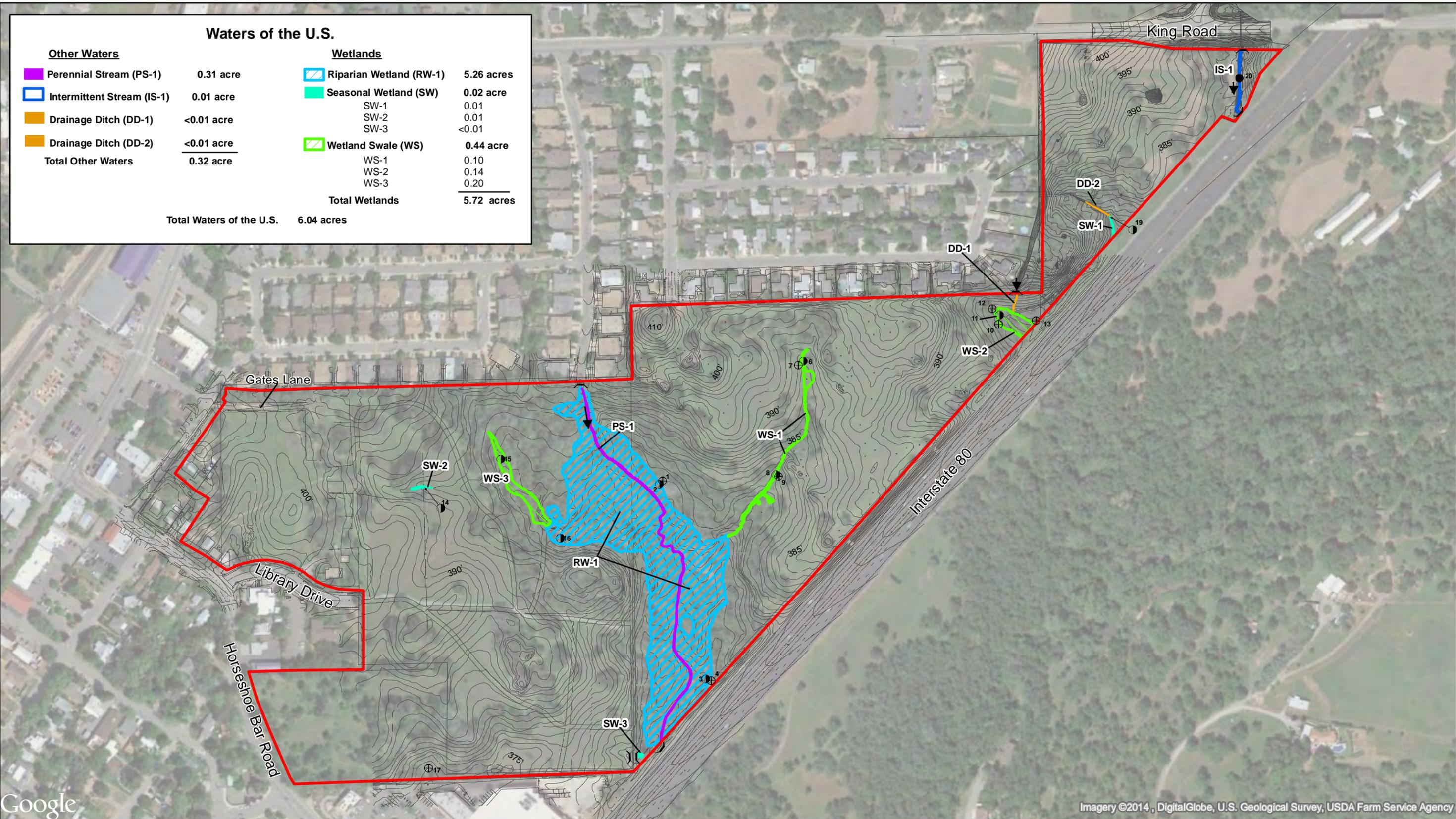
Seasonal Wetland 2 (photo date 3-30-14).



Figure 5

SITE PHOTOS

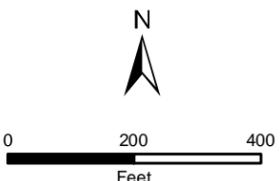
Village At Loomis
Loomis, Placer County, CA



Other Waters		Wetlands	
Perennial Stream (PS-1)	0.31 acre	Riparian Wetland (RW-1)	5.26 acres
Intermittent Stream (IS-1)	0.01 acre	Seasonal Wetland (SW)	0.02 acre
Drainage Ditch (DD-1)	<0.01 acre	SW-1	0.01
Drainage Ditch (DD-2)	<0.01 acre	SW-2	0.01
		SW-3	<0.01
		Wetland Swale (WS)	0.44 acre
		WS-1	0.10
		WS-2	0.14
		WS-3	0.20
Total Other Waters	0.32 acre	Total Wetlands	5.72 acres
Total Waters of the U.S. 6.04 acres			

Google

Imagery ©2014, DigitalGlobe, U.S. Geological Survey, USDA Farm Service Agency

<p>Prepared By</p> 	<p>Prepared For</p> <p>The True Life Companies 12647 Alcosta Blvd., Ste 470 San Ramon, CA 94583</p>	<p>Delineator: J. Glazner</p> <p>Wetland Verification Conducted September 25, 2014</p>	<p>Legend</p> <ul style="list-style-type: none"> Study Area (±66.4 acres) Culvert Flow Direction Wetland Data Point Waters Data Point + Upland Data Point 	<p style="text-align: center;">N</p>  <p style="text-align: center;">0 200 400 Feet</p>	<p style="text-align: center;">Figure 4</p> <p style="text-align: center;">Wetland Delineation Map</p> <p style="text-align: center;"><i>Village at Loomis</i></p> <p style="text-align: center;">Loomis, Placer County, CA</p> <p style="text-align: center;">Revised December 2, 2014</p>
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Appendix A.
Wetland Delineation Data Sheets for Village at Loomis Study Area

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Kimm Property City/County: Loomis/Placer Sampling Date: 2/7/2007
 Applicant/Owner: Lowell Development, Inc. State: CA Sampling Point: 1
 Investigator(s): Barry Anderson, Erin Gottschalk, Jeff Glazner Section, Township, Range: Section 10, Township 11N, Range 7E
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): 10%
 Subregion (LRR): C Lat: 38°49'17"North Long: 121°11'9" West Datum: NAD 27
 Soil Map Unit Name: Xerorthents, placer areas NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes 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 <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: Upslope from stream.	

VEGETATION

<u>Tree Stratum</u> (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Quercus lobata</u>	100	<input checked="" type="checkbox"/>	FAC*	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
2. <u>Quercus wislizeni</u>	10		-	
3. _____				
4. _____				
Total Cover: <u>110</u>				
<u>Sapling/Shrub Stratum</u>				
1. <u>Rubus discolor</u>	20	<input checked="" type="checkbox"/>	FACW ⁺	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
2. _____				
3. _____				
4. _____				
5. _____				
Total Cover: <u>20</u>				
<u>Herb Stratum</u>				
1. _____				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present.
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
Total Cover: _____				
<u>Woody Vine Stratum</u>				
1. _____				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
2. _____				
Total Cover: _____				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				

Remarks:
Marginal hydrophytic vegetation.

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Kimm Property City/County: Loomis/Placer Sampling Date: 2/7/2007
 Applicant/Owner: Lowell Development, Inc. State: CA Sampling Point: 2
 Investigator(s): Barry Anderson, Erin Gottschalk, Jeff Glazner Section, Township, Range: Section 10, Township 11N, Range 7E
 Landform (hillslope, terrace, etc.): basin Local relief (concave, convex, none): concave Slope (%): 5%
 Subregion (LRR): C Lat: 38°49'17"North Long: 121°11'9" West Datum: NAD 27
 Soil Map Unit Name: Xerorthents, placer areas NWI classification: R

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes 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 <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: Vegetated perennial stream. Wide stream supporting braided meandering channels and slowly (< 2 CFS) moving water.	

VEGETATION

<u>Tree Stratum</u> (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Populus fremontii</u>	50	<input checked="" type="checkbox"/>	FACW	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
2. _____				
3. _____				
4. _____				
Total Cover: <u>50</u>				
<u>Sapling/Shrub Stratum</u>				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
1. <u>Rubus discolor</u>	10	<input checked="" type="checkbox"/>	FACW	
2. _____				
3. _____				
4. _____				
Total Cover: <u>10</u>				
<u>Herb Stratum</u>				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present.
1. <u>Leersia oryzoides</u>	50	<input checked="" type="checkbox"/>	OBL	
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
Total Cover: <u>50</u>				
<u>Woody Vine Stratum</u>				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
1. _____				
2. _____				
Total Cover: _____				
% Bare Ground in Herb Stratum _____				
% Cover of Biotic Crust _____				

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Kimm Property City/County: Loomis/Placer Sampling Date: 2/7/2007
 Applicant/Owner: Lowell Development, Inc. State: CA Sampling Point: 3
 Investigator(s): Barry Anderson, Erin Gottschalk, Jeff Glazner Section, Township, Range: Section 10, Township 11N, Range 7E
 Landform (hillslope, terrace, etc.): basin Local relief (concave, convex, none): concave Slope (%): 5%
 Subregion (LRR): C Lat: 38°49'11"North Long: 121°11'7" West Datum: NAD 27
 Soil Map Unit Name: Xerorthents, placer areas NWI classification: R

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes 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 <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: Vegetated perennial stream. Wide stream supporting braided meandering channels and slowly (< 2 CFS) moving water.	

VEGETATION

<u>Tree Stratum</u> (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Salix gooddingii</u>	50	<input checked="" type="checkbox"/>	OBL	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
2. _____				
3. _____				
4. _____				
Total Cover: <u>50</u>				
<u>Sapling/Shrub Stratum</u>				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
1. <u>Rubus discolor</u>	30	<input checked="" type="checkbox"/>	FACW ¹	
2. _____				
3. _____				
4. _____				
5. _____				
Total Cover: <u>30</u>				
<u>Herb Stratum</u>				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present.
1. <u>Leersia oryzoides</u>	10	<input checked="" type="checkbox"/>	OBL	
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
Total Cover: <u>10</u>				
<u>Woody Vine Stratum</u>				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
1. _____				
2. _____				
Total Cover: _____				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Kimm Property City/County: Loomis/Placer Sampling Date: 2/7/2007
 Applicant/Owner: Lowell Development, Inc. State: CA Sampling Point: 4
 Investigator(s): Barry Anderson, Erin Gottschalk, Jeff Glazner Section, Township, Range: Section 10, Township 11N, Range 7E
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): 10%
 Subregion (LRR): C Lat: 38°49'11"North Long: 121°11'7" West Datum: NAD 27
 Soil Map Unit Name: Xerorthents, placer areas NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes 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 <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: Upland comparison point for data point #3.	

VEGETATION

<u>Tree Stratum</u> (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Quercus lobata</u>	50	<input checked="" type="checkbox"/>	FAC*	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>40</u> (A/B)
2. <u>Quercus wislizeni</u>	20	<input checked="" type="checkbox"/>	-	
3. _____				
4. _____				
Total Cover: <u>70</u>				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
<u>Sapling/Shrub Stratum</u>				
1. <u>Rubus discolor</u>	80	<input checked="" type="checkbox"/>	FACW+	
2. <u>Olea europaea</u>	50	<input checked="" type="checkbox"/>	-	
3. <u>Aesculus californica</u>	20	<input checked="" type="checkbox"/>	-	
4. _____				
5. _____				
Total Cover: <u>150</u>				
<u>Herb Stratum</u>				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.
1. _____				
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
Total Cover: _____				
<u>Woody Vine Stratum</u>				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
1. _____				
2. _____				
Total Cover: _____				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Kimm Property City/County: Loomis/Placer Sampling Date: 2/14/2007
 Applicant/Owner: Lowell Development, Inc. State: CA Sampling Point: 5
 Investigator(s): Barry Anderson, Erin Gottschalk, Jeff Glazner Section, Township, Range: Section 10, Township 11N, Range 7E
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): 10%
 Subregion (LRR): C Lat: 38°49'21"North Long: 121°11'3" West Datum: NAD 27
 Soil Map Unit Name: Andregg coarse sandy loam, 2 to 9 percent slopes NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes 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 <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: Upslope from wetland swale. Upland comparison point for data point #6.	

VEGETATION

<u>Tree Stratum</u> (Use scientific names.)	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
Total Cover: _____				
<u>Sapling/Shrub Stratum</u>				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
Total Cover: _____				
<u>Herb Stratum</u>				
1. <u>Juncus xiphioides</u>	50	✓	OBL	
2. <u>Lolium multiflorum</u>	50	✓	FAC*	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
Total Cover: <u>100</u>				
<u>Woody Vine Stratum</u>				
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: 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 _____ x 1 = _____
 FACW species _____ x 2 = _____
 FAC species _____ x 3 = _____
 FACU species _____ x 4 = _____
 UPL species _____ x 5 = _____
 Column Totals: _____ (A) _____ (B)
 Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:
 Dominance Test is >50%
 Prevalence Index is ≤3.0¹
 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes No

Remarks:
 Patch of Juncus xiphioides is creeping out of (upslope from) the wetland.

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Kimm Property City/County: Loomis/Placer Sampling Date: 2/14/2007
 Applicant/Owner: Lowell Development, Inc. State: CA Sampling Point: 6
 Investigator(s): Barry Anderson, Erin Gottschalk, Jeff Glazner Section, Township, Range: Section 10, Township 11N, Range 7E
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): concave Slope (%): 5%
 Subregion (LRR): C Lat: 38°49'21"North Long: 121°11'3" West Datum: NAD 27
 Soil Map Unit Name: Andregg coarse sandy loam, 2 to 9 percent slopes NWI classification: P

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes 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 <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: Wetland swale.	

VEGETATION

<u>Tree Stratum</u> (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
Total Cover: _____				Prevalence Index worksheet: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____</td> <td>(A) _____ (B) _____</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = _____</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species _____	x 1 = _____	FACW species _____	x 2 = _____	FAC species _____	x 3 = _____	FACU species _____	x 4 = _____	UPL species _____	x 5 = _____	Column Totals: _____	(A) _____ (B) _____	Prevalence Index = B/A = _____	
Total % Cover of:	Multiply by:																			
OBL species _____	x 1 = _____																			
FACW species _____	x 2 = _____																			
FAC species _____	x 3 = _____																			
FACU species _____	x 4 = _____																			
UPL species _____	x 5 = _____																			
Column Totals: _____	(A) _____ (B) _____																			
Prevalence Index = B/A = _____																				
<u>Sapling/Shrub Stratum</u>																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
Total Cover: _____																				
<u>Herb Stratum</u>																				
1. <u>Juncus xiphioides</u>	<u>90</u>	<input checked="" type="checkbox"/>	<u>OBL</u>																	
2. <u>Epilobium densiflorum</u>	<u>5</u>		<u>OBL</u>																	
3. <u>Lolium multiflorum</u>	<u>10</u>		<u>FAC*</u>																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
Total Cover: <u>105</u>																				
<u>Woody Vine Stratum</u>																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
Total Cover: _____																				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____																				
Remarks:																				
				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Kim Property City/County: Loomis/Placer Sampling Date: 2/14/2007
 Applicant/Owner: Lowell Development, Inc. State: CA Sampling Point: 7
 Investigator(s): Barry Anderson, Erin Gottschalk, Jeff Glazner Section, Township, Range: Section 10, Township 11N, Range 7E
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): 10%
 Subregion (LRR): C Lat: 38°49'21"North Long: 121°11'3" West Datum: NAD 27
 Soil Map Unit Name: Andregg coarse sandy loam, 2 to 9 percent slopes NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes 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 <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: Upslope from wetland swale. Upland comparison point for data point #6.	

VEGETATION

<u>Tree Stratum</u> (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
Total Cover: _____				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
<u>Sapling/Shrub Stratum</u>				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
Total Cover: _____				
<u>Herb Stratum</u>				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present.
1. <u>Juncus xiphioides</u>	25	✓	OBL	
2. <u>Lolium multiflorum</u>	50	✓	FAC*	
3. <u>Vicia villosa</u>	5	-	-	
4. <u>Geranium molle</u>	10	-	-	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
Total Cover: <u>90</u>				
<u>Woody Vine Stratum</u>				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
Total Cover: _____				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Remarks:
 Patch of Juncus xiphioides is creeping out of (upslope from) the wetland.

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Kimm Property City/County: Loomis/Placer Sampling Date: 2/14/2007
 Applicant/Owner: Lowell Development, Inc. State: CA Sampling Point: 8
 Investigator(s): Barry Anderson, Erin Gottschalk, Jeff Glazner Section, Township, Range: Section 10, Township 11N, Range 7E
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): concave Slope (%): 5%
 Subregion (LRR): C Lat: 38°49'21"North Long: 121°11'3" West Datum: NAD 27
 Soil Map Unit Name: Andregg coarse sandy loam, 2 to 9 percent slopes NWI classification: P

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes 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 <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: Wetland swale.	

VEGETATION

<u>Tree Stratum</u> (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
Total Cover: _____				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
<u>Sapling/Shrub Stratum</u>				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
Total Cover: _____				
<u>Herb Stratum</u>				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present.
1. <u>Juncus xiphioides</u>	<u>10</u>		<u>OBL</u>	
2. <u>Lolium multiflorum</u>	<u>90</u>	<input checked="" type="checkbox"/>	<u>FAC*</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
Total Cover: <u>100</u>				
<u>Woody Vine Stratum</u>				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
Total Cover: _____				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				
Remarks:				

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Kimm Property City/County: Loomis/Placer Sampling Date: 2/14/2007
 Applicant/Owner: Lowell Development, Inc. State: CA Sampling Point: 9
 Investigator(s): Barry Anderson, Erin Gottschalk, Jeff Glazner Section, Township, Range: Section 10, Township 11N, Range 7E
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): 10%
 Subregion (LRR): C Lat: 38°49'21"North Long: 121°11'3" West Datum: NAD 27
 Soil Map Unit Name: Andregg coarse sandy loam, 2 to 9 percent slopes NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes 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 <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: Upland comparison point for data point #8.	

VEGETATION

<u>Tree Stratum</u> (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
Total Cover: _____				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
<u>Sapling/Shrub Stratum</u>				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
Total Cover: _____				
<u>Herb Stratum</u>				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present.
1. <u>Juncus xiphioides</u>	<u>10</u>		<u>OBL</u>	
2. <u>Bromus diandrus</u>	<u>60</u>	<input checked="" type="checkbox"/>	<u>-</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
Total Cover: <u>70</u>				
<u>Woody Vine Stratum</u>				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
Total Cover: _____				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				
Remarks:				

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Kim Property City/County: Loomis/Placer Sampling Date: 2/14/2007
 Applicant/Owner: Lowell Development, Inc. State: CA Sampling Point: 10
 Investigator(s): Barry Anderson, Erin Gottschalk, Jeff Glazner Section, Township, Range: Section 10, Township 11N, Range 7E
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): 10%
 Subregion (LRR): C Lat: 38°49'22"North Long: 121°10'55" West Datum: NAD 27
 Soil Map Unit Name: Andregg coarse sandy loam, 2 to 9 percent slopes NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes 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 <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: Upslope from wetland swale. Upland comparison point for data point #11.	

VEGETATION

<u>Tree Stratum</u> (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Quercus wislizeni</u>	25	✓	-	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)																
2. <u>Quercus lobata</u>	25	✓	FAC*																	
3. _____																				
4. _____																				
Total Cover: <u>50</u>				Prevalence Index worksheet: <table style="width:100%; border: none;"> <tr> <td style="width:50%;"><u> </u> Total % Cover of:</td> <td style="width:50%;"><u> </u> Multiply by:</td> </tr> <tr> <td>OBL species <u> </u></td> <td>x 1 = <u> </u></td> </tr> <tr> <td>FACW species <u> </u></td> <td>x 2 = <u> </u></td> </tr> <tr> <td>FAC species <u> </u></td> <td>x 3 = <u> </u></td> </tr> <tr> <td>FACU species <u> </u></td> <td>x 4 = <u> </u></td> </tr> <tr> <td>UPL species <u> </u></td> <td>x 5 = <u> </u></td> </tr> <tr> <td>Column Totals: <u> </u> (A)</td> <td><u> </u> (B)</td> </tr> <tr> <td align="center" colspan="2">Prevalence Index = B/A = <u> </u></td> </tr> </table>	<u> </u> Total % Cover of:	<u> </u> Multiply by:	OBL species <u> </u>	x 1 = <u> </u>	FACW species <u> </u>	x 2 = <u> </u>	FAC species <u> </u>	x 3 = <u> </u>	FACU species <u> </u>	x 4 = <u> </u>	UPL species <u> </u>	x 5 = <u> </u>	Column Totals: <u> </u> (A)	<u> </u> (B)	Prevalence Index = B/A = <u> </u>	
<u> </u> Total % Cover of:	<u> </u> Multiply by:																			
OBL species <u> </u>	x 1 = <u> </u>																			
FACW species <u> </u>	x 2 = <u> </u>																			
FAC species <u> </u>	x 3 = <u> </u>																			
FACU species <u> </u>	x 4 = <u> </u>																			
UPL species <u> </u>	x 5 = <u> </u>																			
Column Totals: <u> </u> (A)	<u> </u> (B)																			
Prevalence Index = B/A = <u> </u>																				
<u>Sapling/Shrub Stratum</u>																				
1. <u>Rubus discolor</u>	50	✓	FACW ¹																	
2. _____																				
3. _____																				
4. _____																				
5. _____																				
Total Cover: <u>50</u>																				
<u>Herb Stratum</u>																				
1. <u>Galium aparine</u>	5	✓	FACU																	
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
Total Cover: <u>5</u>																				
<u>Woody Vine Stratum</u>																				
1. _____																				
2. _____																				
Total Cover: <u> </u>																				
% Bare Ground in Herb Stratum <u> </u> % Cover of Biotic Crust <u> </u>		Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																		

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Kimm Property City/County: Loomis/Placer Sampling Date: 2/14/2007
 Applicant/Owner: Lowell Development, Inc. State: CA Sampling Point: 11
 Investigator(s): Barry Anderson, Erin Gottschalk, Jeff Glazner Section, Township, Range: Section 10, Township 11N, Range 7E
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): concave Slope (%): 5%
 Subregion (LRR): C Lat: 38°49'22"North Long: 121°10'55" West Datum: NAD 27
 Soil Map Unit Name: Andregg coarse sandy loam, 2 to 9 percent slopes NWI classification: P

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes 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 <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: Wetland swale.	

VEGETATION

<u>Tree Stratum</u> (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Quercus wislizeni</u>	20	<input checked="" type="checkbox"/>	-	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75</u> (A/B)																
2. <u>Quercus lobata</u>	50	<input checked="" type="checkbox"/>	FAC*																	
3. _____																				
4. _____																				
Total Cover: <u>70</u>				Prevalence Index worksheet: <table style="width:100%; border: none;"> <tr> <td style="width:50%;"><u> </u> Total % Cover of:</td> <td style="width:50%;"><u> </u> Multiply by:</td> </tr> <tr> <td>OBL species <u> </u></td> <td>x 1 = <u> </u></td> </tr> <tr> <td>FACW species <u> </u></td> <td>x 2 = <u> </u></td> </tr> <tr> <td>FAC species <u> </u></td> <td>x 3 = <u> </u></td> </tr> <tr> <td>FACU species <u> </u></td> <td>x 4 = <u> </u></td> </tr> <tr> <td>UPL species <u> </u></td> <td>x 5 = <u> </u></td> </tr> <tr> <td>Column Totals: <u> </u> (A)</td> <td><u> </u> (B)</td> </tr> <tr> <td align="center" colspan="2">Prevalence Index = B/A = <u> </u></td> </tr> </table>	<u> </u> Total % Cover of:	<u> </u> Multiply by:	OBL species <u> </u>	x 1 = <u> </u>	FACW species <u> </u>	x 2 = <u> </u>	FAC species <u> </u>	x 3 = <u> </u>	FACU species <u> </u>	x 4 = <u> </u>	UPL species <u> </u>	x 5 = <u> </u>	Column Totals: <u> </u> (A)	<u> </u> (B)	Prevalence Index = B/A = <u> </u>	
<u> </u> Total % Cover of:	<u> </u> Multiply by:																			
OBL species <u> </u>	x 1 = <u> </u>																			
FACW species <u> </u>	x 2 = <u> </u>																			
FAC species <u> </u>	x 3 = <u> </u>																			
FACU species <u> </u>	x 4 = <u> </u>																			
UPL species <u> </u>	x 5 = <u> </u>																			
Column Totals: <u> </u> (A)	<u> </u> (B)																			
Prevalence Index = B/A = <u> </u>																				
<u>Sapling/Shrub Stratum</u>																				
1. <u>Rubus discolor</u>	40	<input checked="" type="checkbox"/>	FACW ¹																	
2. _____																				
3. _____																				
4. _____																				
5. _____																				
Total Cover: <u>40</u>																				
<u>Herb Stratum</u>																				
1. <u>Juncus xiphioides</u>	5	<input checked="" type="checkbox"/>	OBL																	
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
Total Cover: <u>5</u>																				
<u>Woody Vine Stratum</u>																				
1. _____																				
2. _____																				
Total Cover: <u> </u>																				
% Bare Ground in Herb Stratum <u> </u> % Cover of Biotic Crust <u> </u>		Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																		
Remarks:																				

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Kimmy Property City/County: Loomis/Placer Sampling Date: 2/14/2007
 Applicant/Owner: Lowell Development, Inc. State: CA Sampling Point: 12
 Investigator(s): Barry Anderson, Erin Gottschalk, Jeff Glazner Section, Township, Range: Section 10, Township 11N, Range 7E
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): 10%
 Subregion (LRR): C Lat: 38°49'22"North Long: 121°10'55" West Datum: NAD 27
 Soil Map Unit Name: Andregg coarse sandy loam, 2 to 9 percent slopes NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes 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 <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: Upland comparison point.	

VEGETATION

<u>Tree Stratum</u> (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Quercus wislizeni</u>	50	✓	-	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)																
2. <u>Quercus lobata</u>	50	✓	FAC*																	
3. _____																				
4. _____																				
Total Cover: <u>100</u>				Prevalence Index worksheet: <table style="width:100%; border: none;"> <tr> <td style="width:50%;"><u> </u> Total % Cover of:</td> <td style="width:50%;"><u> </u> Multiply by:</td> </tr> <tr> <td>OBL species <u> </u></td> <td>x 1 = <u> </u></td> </tr> <tr> <td>FACW species <u> </u></td> <td>x 2 = <u> </u></td> </tr> <tr> <td>FAC species <u> </u></td> <td>x 3 = <u> </u></td> </tr> <tr> <td>FACU species <u> </u></td> <td>x 4 = <u> </u></td> </tr> <tr> <td>UPL species <u> </u></td> <td>x 5 = <u> </u></td> </tr> <tr> <td>Column Totals: <u> </u> (A)</td> <td><u> </u> (B)</td> </tr> <tr> <td align="center" colspan="2">Prevalence Index = B/A = <u> </u></td> </tr> </table>	<u> </u> Total % Cover of:	<u> </u> Multiply by:	OBL species <u> </u>	x 1 = <u> </u>	FACW species <u> </u>	x 2 = <u> </u>	FAC species <u> </u>	x 3 = <u> </u>	FACU species <u> </u>	x 4 = <u> </u>	UPL species <u> </u>	x 5 = <u> </u>	Column Totals: <u> </u> (A)	<u> </u> (B)	Prevalence Index = B/A = <u> </u>	
<u> </u> Total % Cover of:	<u> </u> Multiply by:																			
OBL species <u> </u>	x 1 = <u> </u>																			
FACW species <u> </u>	x 2 = <u> </u>																			
FAC species <u> </u>	x 3 = <u> </u>																			
FACU species <u> </u>	x 4 = <u> </u>																			
UPL species <u> </u>	x 5 = <u> </u>																			
Column Totals: <u> </u> (A)	<u> </u> (B)																			
Prevalence Index = B/A = <u> </u>																				
<u>Sapling/Shrub Stratum</u>																				
1. <u>Rubus discolor</u>	80	✓	FACW ¹																	
2. _____																				
3. _____																				
4. _____																				
5. _____																				
Total Cover: <u>80</u>																				
<u>Herb Stratum</u>																				
1. <u>Galium aparine</u>	5	✓	FACU																	
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
Total Cover: _____																				
<u>Woody Vine Stratum</u>																				
1. _____																				
2. _____																				
Total Cover: _____																				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____		Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																		

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Kim Property City/County: Loomis/Placer Sampling Date: 2/14/2007
 Applicant/Owner: Lowell Development, Inc. State: CA Sampling Point: 13
 Investigator(s): Barry Anderson, Erin Gottschalk, Jeff Glazner Section, Township, Range: Section 10, Township 11N, Range 7E
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): 10%
 Subregion (LRR): C Lat: 38°49'22"North Long: 121°10'53" West Datum: NAD 27
 Soil Map Unit Name: Andregg coarse sandy loam, 2 to 9 percent slopes NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes 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 <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Remarks: Upland comparison data point. Suspect area on topo. Actually upslope from wetland swale.			

VEGETATION

<u>Tree Stratum</u> (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Quercus wislizeni</u>	80	<input checked="" type="checkbox"/>	-	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)																
2. _____																				
3. _____																				
4. _____																				
Total Cover: <u>80</u>				Prevalence Index worksheet: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"><u> </u> Total % Cover of:</td> <td style="width: 50%;"><u> </u> Multiply by:</td> </tr> <tr> <td>OBL species <u> </u></td> <td>x 1 = <u> </u></td> </tr> <tr> <td>FACW species <u> </u></td> <td>x 2 = <u> </u></td> </tr> <tr> <td>FAC species <u> </u></td> <td>x 3 = <u> </u></td> </tr> <tr> <td>FACU species <u> </u></td> <td>x 4 = <u> </u></td> </tr> <tr> <td>UPL species <u> </u></td> <td>x 5 = <u> </u></td> </tr> <tr> <td>Column Totals: <u> </u></td> <td>(A) <u> </u> (B) <u> </u></td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u> </u></td> </tr> </table>	<u> </u> Total % Cover of:	<u> </u> Multiply by:	OBL species <u> </u>	x 1 = <u> </u>	FACW species <u> </u>	x 2 = <u> </u>	FAC species <u> </u>	x 3 = <u> </u>	FACU species <u> </u>	x 4 = <u> </u>	UPL species <u> </u>	x 5 = <u> </u>	Column Totals: <u> </u>	(A) <u> </u> (B) <u> </u>	Prevalence Index = B/A = <u> </u>	
<u> </u> Total % Cover of:	<u> </u> Multiply by:																			
OBL species <u> </u>	x 1 = <u> </u>																			
FACW species <u> </u>	x 2 = <u> </u>																			
FAC species <u> </u>	x 3 = <u> </u>																			
FACU species <u> </u>	x 4 = <u> </u>																			
UPL species <u> </u>	x 5 = <u> </u>																			
Column Totals: <u> </u>	(A) <u> </u> (B) <u> </u>																			
Prevalence Index = B/A = <u> </u>																				
Sapling/Shrub Stratum																				
1. <u>Rubus discolor</u>	20	<input checked="" type="checkbox"/>	FACW ¹																	
2. _____																				
3. _____																				
4. _____																				
5. _____																				
Total Cover: <u>20</u>																				
Herb Stratum																				
1. _____																				
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
Total Cover: _____																				
Woody Vine Stratum																				
1. _____																				
2. _____																				
Total Cover: _____																				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____																				
Hydrophytic Vegetation Indicators: <input type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)																				
¹ Indicators of hydric soil and wetland hydrology must be present.																				
Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																				
Remarks:																				

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Village at Loomis City/County: Loomis/Placer Sampling Date: 03/30/2014
 Applicant/Owner: The True Life Companies State: CA Sampling Point: 14
 Investigator(s): Jeff Glazner Section, Township, Range: S10, T11N, R7E
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): concave Slope (%): 0
 Subregion (LRR): Mediterranean California (LRR C) Lat: 38.82128510 Long: -121.18942230 Datum: WGS84
 Soil Map Unit Name: Andregg coarse sandy loam, 2 to 9 percent slopes NWI classification:
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes (if no, explain in Remarks.)
 Are Vegetation __, Soil __, or Hydrology __ significantly disturbed? Are "Normal Circumstances" present? Yes
 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? <u>Yes</u>	Is the Sampled Area within a Wetland? <u>Yes</u>
Hydric Soil Present? <u>Yes</u>	
Wetland Hydrology Present? <u>Yes</u>	
Remarks: Low spot in swale that holds water for prolonged periods during growing season.	

VEGETATION – Use scientific names of plants.

Stratum (Plot size: <u>0</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2(A)</u> Total Number of Dominant Species Across All Strata: <u>2 (B)</u> Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100 (A/B)</u>														
<u>Tree Stratum</u> 1. <u>Quercus wislizeni</u> 2. 3. 4. Total Cover = <u>10</u>	<u>10</u>	<u>No</u>	<u>UPL</u>	Prevalence Index worksheet <table border="0"> <tr> <td><u>Total % Cover of:</u></td> <td><u>Multiply by:</u></td> </tr> <tr> <td>OBL species <u>20</u></td> <td>x 1 = <u>20</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>65</u></td> <td>x 3 = <u>195</u></td> </tr> <tr> <td>FACU species <u>15</u></td> <td>x 4 = <u>60</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>100 (A)</u></td> <td><u>275 (B)</u></td> </tr> </table> Prevalence Index = B/A = <u>2.75</u>	<u>Total % Cover of:</u>	<u>Multiply by:</u>	OBL species <u>20</u>	x 1 = <u>20</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>65</u>	x 3 = <u>195</u>	FACU species <u>15</u>	x 4 = <u>60</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>100 (A)</u>	<u>275 (B)</u>
<u>Total % Cover of:</u>	<u>Multiply by:</u>																	
OBL species <u>20</u>	x 1 = <u>20</u>																	
FACW species <u>0</u>	x 2 = <u>0</u>																	
FAC species <u>65</u>	x 3 = <u>195</u>																	
FACU species <u>15</u>	x 4 = <u>60</u>																	
UPL species <u>0</u>	x 5 = <u>0</u>																	
Column Totals: <u>100 (A)</u>	<u>275 (B)</u>																	
<u>Sapling/Shrub Stratum</u> 1. 2. 3. 4. 5. Total Cover = <u>0</u>																		
<u>Herb Stratum</u> 1. <u>Lolium perenne</u> 2. <u>Lactuca serriola</u> 3. <u>Galium aparine</u> 4. <u>Rumex crispus</u> 5. <u>Lythrum hyssopifolium</u> 6. 7. 8. Total Cover = <u>80</u>	<u>60</u> <u>5</u> <u>10</u> <u>5</u> <u>20</u>	<u>Yes</u> <u>No</u> <u>No</u> <u>No</u> <u>Yes</u>	<u>FAC</u> <u>FACU</u> <u>FACU</u> <u>FAC</u> <u>OBL</u>															
<u>Woody Vine Stratum</u> 1. 2. Total Cover = <u>0</u> % Bare Ground in Herb Stratum: <u>5</u> % Cover of Biotic Crust: <u>0</u>				Hydrophytic Vegetation Indicators: <u>X</u> Dominance Test is >50% <u>X</u> 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? <u>Yes</u>														
Remarks: Ryegrass dominated swale																		

SOIL

Sampling Point 14

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
<u>8</u>	<u>7.5YR 4/2</u>	<u>95</u>	<u>5YR 3/4</u>	<u>5</u>	<u>RM</u>	<u>M</u>	<u>Coarse Sandy Loam</u>	<u>Friable</u>

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks)
Restrictive Layer (if present): Type: Depth (inches): <u>0</u>		Hydric Soil Present? <u>Yes</u>
Remarks: Prominent redox in well-drained soil		

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

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (two or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? <u>No</u> Depth (inches): Water Table Present? <u>No</u> Depth (inches): Saturation Present? <u>Yes</u> Depth (inches): <u>6</u> (includes capillary fringe)		Wetland Hydrology Present? <u>Yes</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: 2" rain in past 3 days.		

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Village at Loomis City/County: Loomis/Placer Sampling Date: 03/30/2014
 Applicant/Owner: The True Life Companies State: CA Sampling Point: 15
 Investigator(s): Jeff Glazner Section, Township, Range: S10, T11N, R7E
 Landform (hillslope, terrace, etc.): Drainageway Local relief (concave, convex, none): concave Slope (%): 1
 Subregion (LRR): Mediterranean California (LRR C) Lat: 38.82150870 Long: -121.18854780 Datum: WGS84
 Soil Map Unit Name: Andregg coarse sandy loam, 2 to 9 percent slopes NWI classification:
 Are climatic/hydrologic conditions on the site typical for this time of year? No (if no, explain in Remarks.)
 Are Vegetation __, Soil __, or Hydrology __ significantly disturbed? Are "Normal Circumstances" present? 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? <u>Yes</u>	Is the Sampled Area within a Wetland? <u>Yes</u>
Hydric Soil Present? <u>No</u>	
Wetland Hydrology Present? <u>Yes</u>	
Remarks: well defined wetland swale in riparian corridor.	

VEGETATION – Use scientific names of plants.

Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:
<u>Tree Stratum</u> (Plot size: <u>0</u>) 1. <u>Populus deltoides</u> 2. 3. 4. Total Cover = <u>25</u>	<u>25</u>	<u>Yes</u>	<u>FAC</u>	<u>3</u> (A)
<u>Sapling/Shrub Stratum</u> (Plot size: <u>0</u>) 1. 2. 3. 4. 5. Total Cover = <u>0</u>				Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
<u>Herb Stratum</u> (Plot size: <u>0</u>) 1. <u>Eleocharis pachycarpa</u> 2. <u>Rumex crispus</u> 3. <u>Cyperus eragrostis</u> 4. <u>Holcus lanatus</u> 5. 6. 7. 8. Total Cover = <u>85</u>	<u>50</u> <u>20</u> <u>5</u> <u>10</u>	<u>Yes</u> <u>Yes</u> <u>No</u> <u>No</u>	<u>OBL</u> <u>FAC</u> <u>FACW</u> <u>FAC</u>	Prevalence Index worksheet <u>Total % Cover of:</u> <u>Multiply by:</u> OBL species <u>50</u> x 1 = <u>50</u> FACW species <u>5</u> x 2 = <u>10</u> FAC species <u>55</u> x 3 = <u>165</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>110</u> (A) <u>225</u> (B) Prevalence Index = B/A = <u>2.05</u>
<u>Woody Vine Stratum</u> (Plot size: <u>0</u>) 1. 2. Total Cover = <u>0</u> % Bare Ground in Herb Stratum: <u>5</u> % Cover of Biotic Crust: <u>15</u>				Hydrophytic Vegetation Indicators: <u>X</u> Dominance Test is >50% <u>X</u> 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.
Remarks: Strongly hydrophytic herbaceous layer in swale bottom.				Hydrophytic Vegetation Present? <u>Yes</u>

SOIL

Sampling Point 15

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
<u>8</u>	<u>10YR 4/1</u>	<u>95</u>	<u>7.5YR 4/6</u>	<u>5</u>	<u>C</u>	<u>M</u>	<u>Sandy Clay Loam</u>	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks)
Restrictive Layer (if present): Type: Depth (inches): <u>0</u>		³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Hydric Soil Present? <u>Yes</u>
Remarks: Hydric soils strongly expressed		

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (two or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input checked="" type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? <u>Yes</u> Depth (inches): <u>1</u> Water Table Present? <u>No</u> Depth (inches): <u>0</u> Saturation Present? <u>Yes</u> Depth (inches): <u>0</u> (includes capillary fringe)		Wetland Hydrology Present? <u>Yes</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: Surface water present after recent rains		

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Village at Loomis City/County: Loomis/Placer Sampling Date: 03/30/2014
 Applicant/Owner: The True Life Companies State: CA Sampling Point: 16
 Investigator(s): Jeff Glazner Section, Township, Range: S10, T11N, R7E
 Landform (hillslope, terrace, etc.): Drainageway Local relief (concave, convex, none): concave Slope (%): 1
 Subregion (LRR): Mediterranean California (LRR C) Lat: 38.82082290 Long: -121.18789350 Datum: WGS84
 Soil Map Unit Name: Andregg coarse sandy loam, 2 to 9 percent slopes NWI classification:
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes (if no, explain in Remarks.)
 Are Vegetation __, Soil __, or Hydrology __ significantly disturbed? Are "Normal Circumstances" present? Yes
 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? <u>Yes</u> Hydric Soil Present? <u>Yes</u> Wetland Hydrology Present? <u>Yes</u>	Is the Sampled Area within a Wetland? <u>Yes</u>
Remarks: This location is best described as a marsh although it is part of the flowing stream. We mapped the complex as a perennial stream but it is actually a mosaic of wetland types.	

VEGETATION – Use scientific names of plants.

Stratum (Plot size: <u>0</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
<u>Tree Stratum</u> 1. 2. 3. 4. Total Cover = <u>0</u>				Prevalence Index worksheet <u>Total % Cover of:</u> <u>Multiply by:</u> OBL species <u>70</u> x 1 = <u>70</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>70</u> (A) <u>70</u> (B) Prevalence Index = B/A = <u>1.00</u>
<u>Sapling/Shrub Stratum</u> 1. 2. 3. 4. 5. Total Cover = <u>0</u>				
<u>Herb Stratum</u> (Plot size: <u>0</u>) 1. <u>Typha latifolia</u> 2. <u>Leersia oryzoides</u> 3. 4. 5. 6. 7. 8. Total Cover = <u>70</u>	<u>30</u> <u>40</u>	<u>Yes</u> <u>Yes</u>	<u>OBL</u> <u>OBL</u>	
<u>Woody Vine Stratum</u> (Plot size: <u>0</u>) 1. 2. Total Cover = <u>0</u> % Bare Ground in Herb Stratum: <u>10</u> % Cover of Biotic Crust: <u>15</u>				Hydrophytic Vegetation Indicators: <u>X</u> Dominance Test is >50% <u>X</u> 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.
Remarks: Typha/Leersia marsh within stream complex				Hydrophytic Vegetation Present? <u>Yes</u>

SOIL

Sampling Point 16

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
<u>8</u>	<u>10YR 4/1</u>	<u>95</u>	<u>7.5YR 4/6</u>	<u>5</u>	<u>C</u>	<u>M</u>	<u>Sandy Clay Loam</u>	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils³:	
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> 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): <u>0</u>		Hydric Soil Present? <u>Yes</u>	
Remarks: Low gradient, soils appear to be stable at this location (not depositional)			

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (two or more required)	
Primary Indicators (minimum of one required; check all that apply)			
<input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations: Surface Water Present? <u>Yes</u> Depth (inches): <u>1</u> Water Table Present? <u>No</u> Depth (inches): Saturation Present? <u>Yes</u> Depth (inches): (includes capillary fringe)		Wetland Hydrology Present? <u>Yes</u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: Slow moving backwater area of primary drainageway			

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Village at Loomis City/County: Loomis/Placer Sampling Date: 03/20/2014
 Applicant/Owner: The True Life Companies State: CA Sampling Point: 17
 Investigator(s): Jeff Glazner Section, Township, Range: S10, T11N, R7E
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): concave Slope (%): 0
 Subregion (LRR): Mediterranean California (LRR C) Lat: 38.81878310 Long: -121.18936690 Datum: WGS84
 Soil Map Unit Name: Andregg coarse sandy loam, 2 to 9 percent slopes NWI classification:
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes (if no, explain in Remarks.)
 Are Vegetation __, Soil __, or Hydrology __ significantly disturbed? Are "Normal Circumstances" present? Yes
 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? <u>Yes</u>	Is the Sampled Area within a Wetland? <u>No</u>
Hydric Soil Present? <u>No</u>	
Wetland Hydrology Present? <u>No</u>	
Remarks: Suspect local depressional area supporting hydrophytic vegetation.	

VEGETATION – Use scientific names of plants.

Stratum (Plot size: <u>0</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3(A)</u> Total Number of Dominant Species Across All Strata: <u>3 (B)</u> Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100 (A/B)</u>
<u>Tree Stratum</u> (Plot size: <u>0</u>) 1. 2. 3. 4. Total Cover = <u>0</u>				Prevalence Index worksheet <u>Total % Cover of:</u> <u>Multiply by:</u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>20</u> x 2 = <u>40</u> FAC species <u>60</u> x 3 = <u>180</u> FACU species <u>5</u> x 4 = <u>20</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>85 (A)</u> <u>240 (B)</u> Prevalence Index = B/A = <u>2.82</u>
<u>Sapling/Shrub Stratum</u> (Plot size: <u>0</u>) 1. <u>Salix exigua</u> 2. 3. 4. 5. Total Cover = <u>20</u>	<u>20</u>	<u>Yes</u>	<u>FACW</u>	
<u>Herb Stratum</u> (Plot size: <u>0</u>) 1. <u>Lolium perenne</u> 2. <u>Artemisia douglasiana</u> 3. <u>Galium aparine</u> 4. 5. 6. 7. 8. Total Cover = <u>65</u>	<u>40</u> <u>20</u> <u>5</u>	<u>Yes</u> <u>Yes</u> <u>No</u>	<u>FAC</u> <u>FAC</u> <u>FACU</u>	
<u>Woody Vine Stratum</u> (Plot size: <u>0</u>) 1. 2. Total Cover = <u>0</u> % Bare Ground in Herb Stratum: <u>5</u> % Cover of Biotic Crust: <u>0</u>				Hydrophytic Vegetation Indicators: <u>X</u> Dominance Test is >50% <u>X</u> 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.
Remarks: Herbaceous and woody hydrophytes in this area.				Hydrophytic Vegetation Present? <u>Yes</u>

SOIL

Sampling Point 17

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
<u>10</u>	<u>10YR 4/2</u>	<u>100</u>		<u>0</u>			<u>Coarse Sandy Loam</u>	<u>sandy to greater than 16"</u>

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks)
Restrictive Layer (if present): Type: Depth (inches): <u>0</u>		³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Remarks: Redox not present.		
		Hydric Soil Present? <u>No</u>

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (two or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? <u>No</u> Depth (inches): Water Table Present? <u>No</u> Depth (inches): Saturation Present? <u>No</u> Depth (inches): (includes capillary fringe)		Wetland Hydrology Present? <u>No</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: lacks evidence of prolonged saturation		
Remarks: Area lacks evidence of prolonged saturation. Very localized depressional area.		

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Village at Loomis City/County: Loomis/Placer Sampling Date: 03/28/2014
 Applicant/Owner: The True Life Companies State: CA Sampling Point: 18
 Investigator(s): Jeff Glazner Section, Township, Range: S10, T11N, R7E
 Landform (hillslope, terrace, etc.): Drainageway Local relief (concave, convex, none): concave Slope (%): 2
 Subregion (LRR): Mediterranean California (LRR C) Lat: 38.82363210 Long: -121.18174810 Datum: WGS84
 Soil Map Unit Name: Andregg coarse sandy loam, 2 to 9 percent slopes NWI classification:
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes (if no, explain in Remarks.)
 Are Vegetation __, Soil __, or Hydrology __ significantly disturbed? Are "Normal Circumstances" present? Yes
 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? <u>No</u>	Is the Sampled Area within a Wetland? <u>No</u>
Hydric Soil Present? <u>No</u>	
Wetland Hydrology Present? <u>No</u>	
Remarks: Upland comparison ti 19. Just upslope in the swale.	

VEGETATION – Use scientific names of plants.

Stratum (Plot size: <u>0</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
<u>Tree Stratum</u> 1. 2. 3. 4. Total Cover = <u>0</u>				Number of Dominant Species That Are OBL, FACW, or FAC: <u>0(A)</u> Total Number of Dominant Species Across All Strata: <u>4 (B)</u> Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0 (A/B)</u>
<u>Sapling/Shrub Stratum</u> 1. 2. 3. 4. 5. Total Cover = <u>0</u>				Prevalence Index worksheet <u>Total % Cover of:</u> <u>Multiply by:</u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>20</u> x 4 = <u>80</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>20 (A)</u> <u>80 (B)</u> Prevalence Index = B/A = <u>4.00</u>
<u>Herb Stratum</u> 1. <u>Galium aparine</u> <u>20</u> 2. <u>Bromus diandrus</u> <u>30</u> 3. <u>Carduus pycnocephalus</u> <u>25</u> 4. <u>Montia perfoliata</u> <u>20</u> 5. 6. 7. 8. Total Cover = <u>95</u>		<u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u>	<u>FACU</u> <u>UPL</u> <u>UPL</u> <u>UPL</u>	
<u>Woody Vine Stratum</u> 1. 2. Total Cover = <u>0</u> % Bare Ground in Herb Stratum: <u>0</u> % Cover of Biotic Crust: <u>0</u>				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.
Remarks: Upland plants in swale similar to adjacent areas.				Hydrophytic Vegetation Present? <u>No</u>

SOIL

Sampling Pt. 18

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
8	10YR 3/2	100		0			Coarse Sandy Loam	no redox

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks)
Restrictive Layer (if present): Type: Depth (inches): 0		³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Remarks: Well drained coarse material; no redox		Hydric Soil Present? No

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (two or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? <u>No</u> Depth (inches): Water Table Present? <u>No</u> Depth (inches): Saturation Present? <u>No</u> Depth (inches): (includes capillary fringe)		Wetland Hydrology Present? No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: Sloped swale above depressional wetland		

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Village at Loomis City/County: Loomis/Placer Sampling Date: 03/28/2014
 Applicant/Owner: The True Life Companies State: CA Sampling Point: 19
 Investigator(s): Jeff Glazner Section, Township, Range: S10, T11N, R7E
 Landform (hillslope, terrace, etc.): Drainageway Local relief (concave, convex, none): concave Slope (%): 0
 Subregion (LRR): Mediterranean California (LRR C) Lat: 38.82357890 Long: -121.18170870 Datum: WGS84
 Soil Map Unit Name: Andregg coarse sandy loam, 2 to 9 percent slopes NWI classification:
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes (if no, explain in Remarks.)
 Are Vegetation __, Soil __, or Hydrology __ significantly disturbed? Are "Normal Circumstances" present? Yes
 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? <u>Yes</u> Hydric Soil Present? <u>No</u> Wetland Hydrology Present? <u>Yes</u>	Is the Sampled Area within a Wetland? <u>Yes</u>
Remarks: Bermed swale depression	

VEGETATION – Use scientific names of plants.

Stratum (Plot size: <u>0</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
<u>Tree Stratum</u> (Plot size: <u>0</u>) 1. 2. 3. 4. Total Cover = <u>0</u>				Prevalence Index worksheet <u>Total % Cover of:</u> <u>Multiply by:</u> OBL species <u>10</u> x 1 = <u>10</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>10</u> (A) <u>10</u> (B) Prevalence Index = B/A = <u>1.00</u>
<u>Sapling/Shrub Stratum</u> (Plot size: <u>0</u>) 1. 2. 3. 4. 5. Total Cover = <u>0</u>				
<u>Herb Stratum</u> (Plot size: <u>0</u>) 1. <u>Callitriche heterophylla</u> 2. 3. 4. 5. 6. 7. 8. Total Cover = <u>10</u>	<u>10</u>	<u>Yes</u>	<u>OBL</u>	
<u>Woody Vine Stratum</u> (Plot size: <u>0</u>) 1. 2. Total Cover = <u>0</u> % Bare Ground in Herb Stratum: <u>20</u> % Cover of Biotic Crust: <u>70</u>				Hydrophytic Vegetation Indicators: <u>X</u> Dominance Test is >50% <u>X</u> 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.
Remarks: Depression dominated by an algal mat				Hydrophytic Vegetation Present? <u>Yes</u>

SOIL

Sampling Point 19

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
<u>8</u>	<u>7.5YR 4/2</u>	<u>95</u>	<u>5YR 4/6</u>	<u>5</u>	<u>C</u>	<u>M</u>	<u>Clay</u>	<u>Goovey soils</u>

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks)
Restrictive Layer (if present): Type: Depth (inches): <u>0</u>		Hydric Soil Present? <u>Yes</u>
Remarks: <u>Flat area bermed by frwy; soils are fine-grained with prominent redox</u>		

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

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (two or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input checked="" type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? <u>No</u> Depth (inches): Water Table Present? <u>No</u> Depth (inches): Saturation Present? <u>Yes</u> Depth (inches): <u>0</u> (includes capillary fringe)		Wetland Hydrology Present? <u>Yes</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: <u>depression against freeway</u>		
Remarks: <u>Evidence of prolonged saturation.</u>		

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Village at Loomis City/County: Loomis/Placer Sampling Date: 03/30/2014
 Applicant/Owner: The True Life Companies State: CA Sampling Point: 20
 Investigator(s): Jeff Glazner Section, Township, Range: S10, T11N, R7E
 Landform (hillslope, terrace, etc.): Drainageway Local relief (concave, convex, none): concave Slope (%): 3
 Subregion (LRR): Mediterranean California (LRR C) Lat: 38.82481520 Long: -121.18023420 Datum: WGS84
 Soil Map Unit Name: Andregg coarse sandy loam, 2 to 9 percent slopes NWI classification:
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes (if no, explain in Remarks.)
 Are Vegetation __, Soil __, or Hydrology __ significantly disturbed? Are "Normal Circumstances" present? Yes
 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? Hydric Soil Present? Wetland Hydrology Present?	<u>Mapped as a Drainage Ditch</u>
Is the Sampled Area within a Wetland? <u>Yes</u>	
Remarks: This feature is a drainage ditch built to carry water from local watershed north of King Road through corner of property and through a culvert under Interstate 80 to the south. Water was flowing during field evaluation.	

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0(A)</u> Total Number of Dominant Species Across All Strata: <u>0 (B)</u> Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0 (A/B)</u>
<u>Tree Stratum</u> (Plot size: <u>0</u>) 1. 2. 3. 4. Total Cover = <u>0</u>				Prevalence Index worksheet <u>Total % Cover of:</u> <u>Multiply by:</u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>0 (A)</u> <u>0 (B)</u> Prevalence Index = B/A = <u>1.00</u>
<u>Sapling/Shrub Stratum</u> (Plot size: <u>0</u>) 1. 2. 3. 4. 5. Total Cover = <u>0</u>				
<u>Herb Stratum</u> (Plot size: <u>0</u>) 1. 2. 3. 4. 5. 6. 7. 8. Total Cover = <u>0</u>				
<u>Woody Vine Stratum</u> (Plot size: <u>0</u>) 1. 2. Total Cover = <u>0</u> % Bare Ground in Herb Stratum: <u>0</u> % Cover of Biotic Crust: <u>0</u>				
Hydrophytic Vegetation Indicators: ___ Dominance Test is >50% <u>X</u> 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?				
Remarks: Blackberry in channel but otherwise, unvegetated.				

SOIL

Sampling Point 20

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix								
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)						Indicators for Problematic Hydric Soils³:		
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)			<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9)			<input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks)		
Restrictive Layer (if present): Type: Depth (inches): <u>0</u>						Hydric Soil Present?		
Remarks: Course surface soils								

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (two or more required)	
Primary Indicators (minimum of one required; check all that apply)			
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input checked="" type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations: Surface Water Present? <u>No</u> Depth (inches): Water Table Present? <u>No</u> Depth (inches): Saturation Present? <u>No</u> Depth (inches): (includes capillary fringe)		Wetland Hydrology Present? <u>No</u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: Flowing about 3cfs after 2" rain over last few days.			

Appendix B.
Plant Species Observed Within the Village at Loomis Study Area
with Wetland Status

Appendix B -Plants Observed - Village at Loomis

Taxon	Common Name	Wetland Status
<i>Acmispon americanus</i>	Spanish-clover	UPL
<i>Adiantum jordanii</i>	California maiden hair	FAC
<i>Aesculus californica</i>	California buckeye	UPL
<i>Aira caryophylla</i>	silver European hairgrass	FACU
<i>Alisma triviale</i>	northern water plantain	OBL
<i>Ambrosia psilostachya</i>	western ragweed	FACU
<i>Amsinckia menziesii</i>	fiddleneck	UPL
<i>Anthriscus caucalis</i>	bur-chervil	UPL
<i>Aristolochia californica</i>	California pipevine	UPL
<i>Artemisia douglasiana</i>	California mugwort	FAC
<i>Avena fatua</i>	wild oat	UPL
<i>Baccharis pilularis</i>	coyote brush	UPL
<i>Barbarea orthoceras</i>	American Wintercress	FACW
<i>Bidens frondosa</i>	sticktight	FACW
<i>Briza minor</i>	small quaking grass	FAC
<i>Brodiaea elegans subsp. elegans</i>	harvest brodiaea	FACU
<i>Bromus diandrus</i>	ripgut grass	UPL
<i>Bromus hordeaceus</i>	soft chess	FACU
<i>Bromus madritensis</i>	foxtail chess	UPL
<i>Calandrinia ciliata</i>	red maids	FACU
<i>Callitriche heterophylla</i>	water starwort	OBL
<i>Cardamine oligosperma</i>	few-seed bitter cress	FAC
<i>Carduus pycnocephalus</i>	Italian thistle	UPL
<i>Carex praegracilis</i>	clustered field-sedge	FACW
<i>Ceanothus cuneatus</i>	buckbrush	UPL
<i>Cedrus deodara</i>	Deodar dedar	UPL
<i>Centaurea solstitialis</i>	yellow starthistle	UPL
<i>Chondrilla juncea</i>	skeleton weed	UPL
<i>Cirsium vulgare</i>	bull thistle	FACU
<i>Claytonia perfoliata</i>	miner's lettuce	FAC
<i>Convolvulus arvensis</i>	bindweed	UPL
<i>Croton setigerus</i>	turkey mullein	UPL
<i>Cynodon dactylon</i>	bermudagrass	FACU
<i>Cynosurus echinatus</i>	hedgehog dogtail	UPL
<i>Cyperus eragrostis</i>	tall flatsedge	FACW
<i>Cytisus scoparius</i>	Scotch broom	UPL
<i>Daucus carota</i>	Queen Anne's lace	UPL
<i>Dichelostemma capitatum</i>	blue dicks	FACU
<i>Echinochloa crus-galli</i>	barnyard grass	FACW
<i>Eleocharis macrostachya</i>	creeping spikerush	UPL
<i>Eleocharis pachycarpa</i>	black sand spikerush	OBL
<i>Elymus caput-medusae</i>	medusahead	UPL
<i>Epilobium brachycarpum</i>	summer cottonweed	UPL
<i>Epilobium ciliatum</i>	hairy willow-herb	FACW
<i>Epilobium densiflorum</i>	dense-flower spike-primrose	FACW
<i>Equisetum arvense</i>	horsetail	FAC
<i>Erigeron canadensis</i>	horseweed	FACU
<i>Erodium botrys</i>	broad-leaf filaree	FACU

* Non-native

Taxon	Common Name	Wetland Status
<i>Erodium cicutarium</i>	red stemmed filaree	UPL
<i>Eschscholzia californica</i>	California poppy	UPL
<i>Euthamia occidentalis</i>	western goldenrod	FACW
<i>Festuca arundinacea</i>	tall fescue	FACU
<i>Ficus carica</i>	fig	FACU
<i>Foeniculum vulgare</i>	sweet fennel	UPL
<i>Frangula californica subsp. tomentella</i>	hoary coffeeberry	UPL
<i>Galium aparine</i>	goose grass	FACU
<i>Geranium dissectum</i>	cut-leaf geranium	UPL
<i>Geranium molle</i>	dove's-foot geranium	UPL
<i>Hedera helix</i>	English ivy	UPL
<i>Hirschfeldia incana</i>	short-podded mustard	UPL
<i>Holcus lanatus</i>	common velvet grass	FAC
<i>Hordeum marinum subsp. gussoneanum</i>	Mediterranean barley	FAC
<i>Hordeum murinum subsp. leporinum</i>	foxtail barley	FACU
<i>Hypericum perforatum</i>	Klamathweed	FACU
<i>Hypochaeris glabra</i>	smooth cat's-ear	UPL
<i>Juglans hindsii</i>	northern California black walnut	FAC
<i>Juncus bufonius</i>	toad rush	FACW
<i>Juncus effusus</i>	soft rush	FACW
<i>Juncus mexicanus</i>	Mexican rush	FACW
<i>Juncus xiphioides</i>	iris-leaf rush	OBL
<i>Lactuca serriola</i>	prickly lettuce	FACU
<i>Leersia oryzoides</i>	rice cutgrass	OBL
<i>Leymus triticoides</i>	creeping wildrye	FAC
<i>Ligustrum japonicum</i>	Japanese privet	FACU
<i>Lolium perenne</i>	Italian ryegrass	FAC
<i>Lupinus bicolor</i>	miniature lupine	UPL
<i>Lythrum hyssopifolia</i>	hyssop loosestrife	OBL
<i>Malus sp.</i>	apple tree	UPL
<i>Marah fabacea</i>	California man-root	UPL
<i>Matricaria discoidea</i>	pineapple weed	FACU
<i>Mentha pulegium</i>	pennyroyal	OBL
<i>Mimulus guttatus</i>	common monkeyflower	OBL
<i>Morus alba</i>	mulberry	FACU
<i>Muhlenbergia rigens</i>	deergrass	FAC
<i>Narcissus pseudonarcissus</i>	daffodil	UPL
<i>Nasturtium officinale</i>	water cress	OBL
<i>Nemophila menziesii</i>	baby blue eyes	UPL
<i>Nerium oleander</i>	oleander	UPL
<i>Olea europaea</i>	olive	UPL
<i>Oxalis pes-caprae</i>	sourgrass	UPL
<i>Paspalum dilatatum</i>	Dallis grass	FAC
<i>Paspalum distichum</i>	knot grass	FACW
<i>Pentagramma triangularis subsp. triangularis</i>	goldback fern	UPL
<i>Persicaria lapathifolia</i>	common knotweed	FACW
<i>Phalaris aquatica</i>	canary grass	FACU
<i>Phorodendron serotinum</i>	Pacific mistletoe	UPL
<i>Phytolacca americana</i>	American pokeweed	FAC
<i>Pinus sabiniana</i>	foothill pine	UPL

Taxon	Common Name	Wetland Status
<i>Plagiobothrys nothofulvus</i>	rusty haired popcorn flower	FAC
<i>Plantago lanceolata</i>	English plantain	FAC
<i>Poa annua</i>	annual bluegrass	FACU
<i>Polygonum aviculare</i>	prostrate knotweed	FACW
<i>Polypogon monspeliensis</i>	annual beard grass	FACW
<i>Populus fremontii</i> subsp. <i>fremontii</i>	Fremont cottonwood	FAC
<i>Prunus cerasifera</i>	cherry plum	UPL
<i>Pseudognaphalium californicum</i>	California everlasting	UPL
<i>Pyrus communis</i>	pear	UPL
<i>Quercus douglasii</i>	blue oak	UPL
<i>Quercus lobata</i>	valley oak	FACU
<i>Quercus wislizeni</i> var. <i>wislizeni</i>	interior live oak	UPL
<i>Raphanus sativus</i>	wild radish	UPL
<i>Robinia pseudoacacia</i>	black locust	FACU
<i>Rosa</i> sp.	ornamental rose	UPL
<i>Rubus armeniacus</i>	Himalayan blackberry	FACU
<i>Rumex acetosella</i>	sheep sorrel	FACU
<i>Rumex crispus</i>	curly dock	FAC
<i>Rumex pulcher</i>	fiddle dock	FAC
<i>Sagittaria latifolia</i>	broadleaf arrowhead	OBL
<i>Salix exigua</i>	narrow-leaved willow	FACW
<i>Salix gooddingii</i>	Goodding's black willow	FACW
<i>Salix laevigata</i>	red willow	FACW
<i>Salix lasiolepis</i>	arroyo willow	FACW
<i>Sambucus nigra</i> subsp. <i>caerulea</i>	elderberry	FAC
<i>Sanicula bipinnatifida</i>	purple sanicle	UPL
<i>Scandix pecten-venenis</i>	shepherd's needle	UPL
<i>Schoenoplectus acutus</i> var. <i>occidentalis</i>	hard-stem tule	OBL
<i>Senecio vulgaris</i>	common groundsel	FACU
<i>Silybum marianum</i>	milk thistle	UPL
<i>Sonchus asper</i>	prickly sow-thistle	FAC
<i>Stachys ajugoides</i> var. <i>ajugoides</i>	bugle hedge-nettle	OBL
<i>Stellaria media</i>	common chickweed	FACU
<i>Torilis arvensis</i>	field hedge-parsley	UPL
<i>Toxicodendron diversilobum</i>	western poison-oak	UPL
<i>Triadica sebifera</i>	Chinese tallowtree	FAC
<i>Trifolium dubium</i>	little hop clover	UPL
<i>Trifolium glomeratum</i>	clover	UPL
<i>Trifolium hirtum</i>	rose clover	UPL
<i>Trifolium microcephalum</i>	small-headed clover	FAC
<i>Trifolium repens</i>	white clover	FACU
<i>Trifolium subterraneum</i>	subterranean clover	UPL
<i>Triteleia hyacinthina</i>	wild hyacinth	FAC
<i>Triteleia laxa</i>	Ithuriel's spear	UPL
<i>Typha latifolia</i>	cattail	OBL
<i>Verbascum blattaria</i>	moth mullein	UPL
<i>Verbascum thapsus</i>	woolly mullein	FACU
<i>Vicia sativa</i>	spring vetch	FACU
<i>Vicia villosa</i>	winter vetch	UPL
<i>Vinca major</i>	periwinkle	UPL

Taxon	Common Name	Wetland Status
<i>Vitis californica</i>	California wild grape	FACU
<i>Vulpia myuros</i>	rattail fescue	FACU
<i>Zeltnera muehlenbergii</i>	June centaury	FAC