## WETLAND DELINEATION FOR THE

# ±66.4-ACRE VILLAGE AT LOOMIS STUDY AREA

## TOWN OF LOOMIS, PLACER COUNTY, CALIFORNIA



Prepared for:

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Prepared by:



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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

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## Delineator

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# 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.



## 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 and 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 (*Avenua 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 lapathifilia*), 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  $\pm 5.99$  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 1Waters of the United States with the Village at Loomis Study Area

Туре	Acreage
Others Waters:	
Perennial Stream	5.53
Drainage Ditches (2)	0.01
Total Other Waters	5.54
Wetlands:	
Wetland Swales (3)	0.43
Seasonal Wetland (3)	0.02
Total Wetlands	0.45
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  $\pm 0.43$  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).







Figure 4

**SITE PHOTOS** *Village At Loomis* Loomis, Placer County, CA



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



→ Flow Direction

onsulting, inc.

Loomis, Placer County, CA

Revised December 2, 2014

400

200

Feet

 $\oplus$ 

Upland Data Point

## **REFERENCES AND OTHER SOURCES**

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Appendix A. Wetland Delineation Data Sheets for Village at Loomis Study Area

Project/Site: Kimm Property	City/County: Loomis/Place	er	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, Town	ship 11N, Rang	ge 7E
Landform (hillslope, terrace, etc.): hillslope	Local relief (concave, conve	x, none): <u>convex</u>	Sic	pe (%): <u>10%</u>
Subregion (LRR): C Lat: 38	5°49'17"North Lon	<sub>g:</sub> <u>121°11'9" Wes</u> t	t Datu	Im: NAD 27
Soil Map Unit Name: Xerorthents, placer areas		NWI classific:	ation: N/A	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes _✔_ No	(If no, explain in Re	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Norm	al Circumstances" p	resent?Yes _	No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed	, explain any answer	rs 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?	Yes Yes Yes	No No No	Is the Sampled Area within a Wetland?	Yes No∕
Remarks:				
Upslope from stream.				

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Use scientific names.)	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1. Quercus lobata	100		FAC*	That Are OBL, FACW, or FAC: (A)
2. Quercus wislizeni	10		-	
3				I otal Number of Dominant 2 (B)
A				
T-t-l Original	110			Percent of Dominant Species 100
Sapling/Shrub Stratum				That Are OBL, FACW, or FAC: (A/B)
1 Rubus discolor	20	√	FACV#	Prevalence Index worksheet:
1				
2				
3				OBL species x 1 =
4				FACW species x 2 =
5				FAC species x 3 =
Total Cover:	20			FACU species x 4 =
Herb Stratum				UPL species x 5 =
1				Column Totals: (A) (B)
2.				
<u></u>				Prevalence Index = B/A =
4				Hydrophytic Vegetation Indicators:
4				✓ Dominance Test is >50%
5				Dominance results >00%
6				Prevalence index is ≤3.0
7				Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)
8				Daskland field without the Manual American (Countries)
Total Cover:				Problematic Hydrophytic Vegetation (Explain)
Woody Vine Stratum				
1				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
2.				be present.
Total Cover:				Hydrophytic
				Vegetation /
% Bare Ground in Herb Stratum % Cover	of Biotic Cr	ust		Present? Yes <u>V</u> No
Remarks:				
Marginal hydrophytic vegetation				

	S	0	I	L
--	---	---	---	---

Sampl	ina	Point <sup>.</sup>	
Qarribi		F OILL.	

1

SOIL								
Profile Des	cription: (Describe	to the de	pth needed to docu	ment the ir	ndicator	or confirm	the absence	e of indicators.)
Depth	Matrix		Red	ox Features	i			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-8	7.5 YR 2.5/3	100	none					coarse sandy loam
8-12	7.5 YR 2.5/3	100	none					more clay
		_						
<sup>1</sup> Type: C=C	oncentration, D=De	pletion, RI	M=Reduced Matrix.	<sup>2</sup> Location:	PL=Por	e Lining, R	C=Root Chan	nnel, M=Matrix.
Hydric Soil	Indicators: (Applie	cable to a	ll LRRs, unless othe	rwise note	d.)		Indicators	s for Problematic Hydric Soils <sup>3</sup> :
Histoso	l (A1)		Sandy Rec	lox (S5)			1 cm	Muck (A9) (LRR C)
Histic E	pipedon (A2)		Stripped M	atrix (S6)			2 cm	Muck (A10) (LRR B)
Black H	istic (A3)		Loamy Mu	cky Mineral	(F1)		Redu	ced Vertic (F18)
Hydrogen Sulfide (A4)		Loamy Gleyed Matrix (F2)				Red Parent Material (TF2)		
Stratifie	d Layers (A5) ( <b>LRR</b>	<b>C</b> )	Depleted N	latrix (F3)			Other	(Explain in Remarks)
1 cm Mu	uck (A9) (LRR D)		Redox Dar	k Surface (I	F6)			
Deplete	d Below Dark Surfa	ce (A11)	Depleted D	ark Surface	e (F7)			
Thick D	ark Surface (A12)		Redox Dep	ressions (F	8)			
Sandy M	Mucky Mineral (S1)		Vernal Poo	s (F9)	,		<sup>3</sup> Indicators	s of hydrophytic vegetation and
Sandy (	Gleyed Matrix (S4)			( )			wetland	d hydrology must be present.
Restrictive	Layer (if present):							
Туре:								
Depth (in	iches):						Hydric Soi	I Present? Yes No
Remarks.								
HYDROLO	OGY							
Wetland Hy	drology Indicators	:					<u>Seco</u>	ndary Indicators (2 or more required)
Drimany Indi	cators (any one indi	cator is su	fficient)				1	Mater Marks (B1) ( <b>Riverine</b> )

Primary Indicators (any one indicator is su	sufficient)	Water Marks (B1) (Riverine)
Surface Water (A1)	Sediment Deposits (B2) (Riverine)	
High Water Table (A2)	Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3)	Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine	ne) Oxidized Rhizospheres along Living	Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Recent Iron Reduction in Plowed Sc	ils (C6) Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery	(B7) Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)		FAC-Neutral Test (D5)
Field Observations:	,	
Surface Water Present? Yes	No Depth (inches):	
Water Table Present? Yes	No Depth (inches):	,
Saturation Present? Yes (includes capillary fringe)	No Depth (inches): N	Netland Hydrology Present? Yes No
Describe Recorded Data (stream gauge,	monitoring well, aerial photos, previous inspectio	ns), if available:
Remarks:		

Project/Site: Kimm Property	City/County: Loomis/Placer	r	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: _S	Section 10, Town	ship 11N, Ran	ge 7E		
Landform (hillslope, terrace, etc.): basin	Local relief (concave, convex	, none): <u>concave</u>	Slo	ope (%): <u>5%</u>		
Subregion (LRR): C Lat: 38	3°49'17"North Long	121°11'9" West	t Dati	um: 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 "Norma	l Circumstances" p	resent? Yes	✓ No		
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed,	explain any answer	rs in Remarks.)			
SUMMARY OF FINDINGS – Attach site map showing	a sampling point locatio	ons. transects.	. important f	eatures. etc.		

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes _ ✓ No Yes _ ✓ No Yes _ ✓ No	Is the Sampled Area within a Wetland?	Yes✔ No
Remarks:			

Vegetated perennial stream. Wide stream supporting braided meandering channels and slowly (< 2 CFS) moving water.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Use scientific names.)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1. Populus fremontii	50		FACW	That Are OBL, FACW, or FAC: (A)
2.			-	
3		-		Total Number of Dominant 3
J				Species Across All Strata: (B)
4				Percent of Dominant Species
Total Cover:	50			That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum	10	/		
1. Rubus discolor	10		FACV+	Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
3.				OBL species x 1 =
4				FACW species x 2 =
o	10			FAC species         x 5 =
Total Cover:	10			FACU species x 4 =
Herb Stratum	50	/		UPL species x 5 =
1. Leersia oryzoides	50			Column Totals: (A) (B)
2				
3				Prevalence Index = B/A =
4.				Hydrophytic Vegetation Indicators:
5				✓ Dominance Test is >50%
6				Prevalence Index is ≤3.0 <sup>1</sup>
7				Morphological Adaptations <sup>1</sup> (Provide supporting
·				data in Remarks or on a separate sheet)
8				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Total Cover:	50			
Woody Vine Stratum				1
1				Indicators of hydric soil and wetland hydrology must
2				
Total Cover:				Hydrophytic
	- ( D'-1'- 0			Vegetation
% Bare Ground in Herb Stratum % Cover	of Biotic Ci	rust		Present? Yes No
Remarks:				

#### SOIL

nolina	Point:	

SOIL								Sampling Point:2
Profile Des	cription: (Describe	to the de	pth needed to docu	ment the	indicator	or confirr	n the absence	of indicators.)
Depth	Matrix		Rede	ox Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc <sup>2</sup>		Remarks
0-6	7.5 YR 2.5/2	100	none				loamy	high organic material
6-12	7.5 YR 4/1	100	7.5 YR 3/3	10	C	M		coarse sandy loam
						·		
				2				
Hydric Soil	Indicators: (Applic	cable to al	LRRs. unless office	rwise not	i. ru-ru ted.)	e Lining, r		for Problematic Hydric Soils <sup>3</sup> :
Histoso Histic E Black H Hydrog Stratifie Deplete Thick D Sandy Sandy	ir (A1) Epipedon (A2) listic (A3) en Sulfide (A4) ed Layers (A5) (LRR uck (A9) (LRR D) ed Below Dark Surfac Dark Surface (A12) Mucky Mineral (S1) Gleved Matrix (S4)	<b>C</b> ) ce (A11)	Sandy Rec Stripped M Loamy Mu Loamy Gle Depleted M Redox Dar Depleted D Redox Dep Vernal Poo	lox (S5) atrix (S6) cky Minera yed Matrix (F3) hatrix (F3) k Surface bark Surfac oressions ( ls (F9)	al (F1) (F2) (F6) ce (F7) F8)		1 cm I 2 cm I Reduc Red F Other <sup>3</sup> Indicators	Muck (A9) ( <b>LRR C</b> ) Muck (A10) ( <b>LRR B</b> ) ced Vertic (F18) Parent Material (TF2) (Explain in Remarks) s of hydrophytic vegetation and
Restrictive	Laver (if present):							a nyarology mast be present.
Type	Edyor (in present).							
Dopth /ir	ab co):						Uvdria Cail	
	iches).						Hyune Son	
Depleted r	natrix in lower lay	er of soil	profile.					
Wetland Hy	drology Indicators	•					Seco	ndary Indicators (2 or more required)
Primary Ind	icators (any one indi	cator is suf	ficient)				V	Water Marks (B1) ( <b>Riverine</b> )
✓ Surface — High W — Saturat — Water I — Sedime — Drift De — Surface — Inundat	Water (A1) iater Table (A2) ion (A3) Marks (B1) ( <b>Nonrive</b> ent Deposits (B2) ( <b>No</b> eposits (B3) ( <b>Nonrive</b> e Soil Cracks (B6) ion Visible on Aerial	rine) prriverine) Imagery (E	<ul> <li>Salt Crusi</li> <li>Biotic Cru</li> <li>Aquatic Ir</li> <li>Hydrogen</li> <li>Oxidized</li> <li>Presence</li> <li>Recent Iro</li> <li>Other (Ex</li> </ul>	: (B11) st (B12) vertebrate Sulfide O Rhizosphe of Reduct on Reduct plain in Re	es (B13) dor (C1) eres along ed Iron (C ion in Ploy emarks)	Living Ro 4) ved Soils (	S C C ots (C3) T C (C6) S	Sediment Deposits (B2) ( <b>Riverine</b> ) Drift Deposits (B3) ( <b>Riverine</b> ) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Water-	Stained Leaves (B9)						F	AC-Neutral Test (D5)
Field Obse	rvations:							
Surface Wa	ter Present?	res _✓	No Depth (ir	iches):	1			
Water Table	e Present?	Yes_✔	No Depth (ir	iches):				
Saturation F (includes ca	Present?	Yes_✔	No Depth (in	iches):		Wet	land Hydrolog	ıy Present? Yes _ ✓ No

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

Remarks:

Slowly (< 2 CFS) flowing water in wide braided stream system.

Project/Site:	City/County: Loomis/Placer	Sampling Date:
Applicant/Owner: Lowell Development, Inc.	State: CA	Sampling Point: <u>3</u>
Investigator(s): Barry Anderson, Erin Gottschalk, Jeff Glazner	Section, Township, Range: Section 10, To	wnship 11N, Range 7E
Landform (hillslope, terrace, etc.): basin	Local relief (concave, convex, none):	Ve Slope (%): 5%
Subregion (LRR): C Lat: 38	<sup>°</sup> 49'11"North Long: <u>121°11'7" W</u>	/est Datum: NAD 27
Soil Map Unit Name: Xerorthents, placer areas	NWI class	ification: R
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes No (If no, explain ir	n Remarks.)
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Normal Circumstances	s" present? Yes No
Are Vegetation, Soil, or Hydrology naturally pro-	oblematic? (If needed, explain any ans	wers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transec	ts, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes _ ✓ No Yes _ ✓ No Yes _ ✓ No	Is the Sampled Area within a Wetland?	Yes No
Remarks:			

Vegetated perennial stream. Wide stream supporting braided meandering channels and slowly (< 2 CFS) moving water.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Use scientific names.)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1. Salix gooddingii	50		OBL	That Are OBL, FACW, or FAC: (A)
2.				
3		-		Total Number of Dominant 3
J				Species Across All Strata: (B)
4				Percent of Dominant Species
Total Cover:	50			That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum	20			
1. Rubus discolor	30		FACV+	Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
3				OBL species x 1 =
A.				EACW species x 2 =
5				FAC species x 3 =
Total Cover:	30			FACU species x 4 =
Herb Stratum				UPL species x 5 =
1. Leersia oryzoides	10		OBL	Column Totals: (A) (B)
2				
3				Prevalence Index = B/A =
4.				Hydrophytic Vegetation Indicators:
5				✓ Dominance Test is >50%
6				Prevalence Index is ≤3.0 <sup>1</sup>
7				Morphological Adaptations <sup>1</sup> (Provide supporting
·				data in Remarks or on a separate sheet)
8				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Total Cover:	10			
Woody Vine Stratum				1
1				Indicators of hydric soil and wetland hydrology must
2				be present.
Total Cover:				Hydrophytic
	- ( D'-1'- 0)			Vegetation
% Bare Ground In Herb Stratum % Cover	OT BIOLIC CI	ust		Present? Yes NO
Remarks:				

Sampling Point:

3

(inches)	Color (moist)		Color (moist)	%	_Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
1-12	7.5 YR 2.5/1	100	none				clay loam	
				·				
				·				
				·				
				·				
vne: C=Con	centration D=Den	etion RM	=Reduced Matrix	<sup>2</sup> Location	 PI =Por		C=Root Cha	 nnel_M=Matrix
dric Soil Ind	dicators: (Application)	able to all	LRRs, unless other	wise note	d.)	o Ennig, ree	Indicator	rs for Problematic Hydric Soils <sup>3</sup> :
_ Histosol (A	<del>\</del> 1)		Sandy Redo	ox (S5)			1 cm	Muck (A9) (LRR C)
_ Histic Epip	edon (A2)		Stripped Ma	trix (S6)			2 cm	Muck (A10) (LRR B)
_ Black Histi	ic (A3)		Loamy Mucl	ky Mineral	(F1)		Redu	uced Vertic (F18)
_ Hydrogen	Sulfide (A4)	•)	Loamy Gley	ed Matrix (	(F2)		Red	Parent Material (TF2)
1 cm Muck	2 (A9) (LRR D)	•)	Depieted Mi	Surface (I	F6)		Othe	r (Explain in Remarks)
Depleted E	Below Dark Surface	e (A11)	Depleted Da	ark Surface	e (F7)			
_ Thick Dark	Surface (A12)	- ( )	Redox Depr	essions (F	8)			
_ Sandy Mu	cky Mineral (S1)		Vernal Pool	s (F9)			<sup>3</sup> Indicato	rs of hydrophytic vegetation and
_ Sandy Gle	yed Matrix (S4)						wetlar	nd hydrology must be present.
estrictive La	yer (if present):							
estrictive La Type:	yer (if present):							/
estrictive La Type: Depth (inch emarks:	es):						Hydric So	oil Present? Yes No
estrictive La Type: Depth (inch emarks:	yer (if present):						Hydric Sc	oil Present? Yes <u>√</u> No
Depth (inch)	yer (if present): es): Y						Hydric Sc	oil Present? Yes <u>✓</u> No
Type: Depth (inch emarks: DROLOG etland Hydro	es): Y ology Indicators:						Hydric Sc Sec	ondary Indicators (2 or more required)
Depth (inch) operations of DROLOG of DROLOG of DROLOG	yer (if present): es): Y ology Indicators: tors (any one indicators)	ator is suff	icient)	(014)			Hydric Sc Sec	oil Present? Yes <u>√</u> No <u></u> ondary Indicators (2 or more required) Water Marks (B1) ( <b>Riverine</b> )
estrictive La Type: Depth (inch) emarks: DROLOG etland Hydro imary Indicat Surface W	Y Ology Indicators: tors (any one indicators) fater (A1) tors Table (A2)	ator is suff	icient) Salt Crust	(B11)			Hydric Sc Sec	oil Present? Yes No ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Depth (inch) Depth (inch) emarks: DROLOG etland Hydro imary Indicat _ Surface W _ High Wate _ Saturation	Y ology Indicators: tors (any one indicators: fater (A1) r Table (A2) (A3)	ator is suff	icient) Salt Crust Biotic Crus	(B11) (B12) (ettebrates	(813)		Hydric Sc 	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Extrictive La Type: Depth (inch emarks: DROLOG etland Hydro imary Indicat _ Surface W _ High Wate _ Saturation Water Mar	yer (if present): es): Y ology Indicators: tors (any one indicators: fater (A1) r Table (A2) (A3) rks (B1) (Nonriveri	ator is suff	icient) Salt Crust Biotic Crust Aquatic Inv Hvdrogen	(B11) (B12) /ertebrates Sulfide Od	s (B13) or (C1)		Hydric Sc 	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Drv-Season Water Table (C2)
	yer (if present): es): es): es): es): es): ology Indicators: tors (any one indicators: tors (any one indicators: tater (A1) er Table (A2) (A3) es (B1) (Nonriveri Deposits (B2) (Nor	ator is suff	icient) Salt Crust Biotic Crus Aquatic Inv Hydrogen - Oxidized R	(B11) st (B12) vertebrates Sulfide Od	€ (B13) or (C1) es along	Living Root	Hydric Sc 	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7)
	Y ology Indicators: tors (any one indicators: fater (A1) for Table (A2) (A3) fks (B1) (Nonriveri Deposits (B2) (Nor sits (B3) (Nonriveri	ator is suff ne) nriverine)	icient) Salt Crust Biotic Crus Aquatic Inv Hydrogen f Oxidized R Oxidized R	(B11) st (B12) vertebrates Sulfide Od Phizospher	s (B13) or (C1) es along d Iron (C4	Living Root	Hydric Sc 	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8)
Type: Depth (inch) emarks: TOROLOG Torong the second Torong the second second second Torong the second	Y es): es): es): es): ology Indicators: tors (any one indicators: tors	ator is suff ne) nriverine) ine)	icient) Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized R Presence o Recent Iroo	(B11) st (B12) vertebrates Sulfide Od Rhizospher of Reduced n Reductio	6 (B13) or (C1) es along d Iron (C4 on in Plow	Living Root	Hydric Sc 	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
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Saturation     Water Mar     Saturation     Water Mar     Saturation     Water Mar     Saturation     Water Mar     Sediment I     Drift Depos     Surface So     Inundation     Water-Stai eld Observa	yer (if present): es): es): es): es): es): fology Indicators: tors (any one indicators: tars (any one indicators: tars (any one indicators: tars (any one indicators: (A3) r Table (A2) (A3) r Table (A2) (A3) rks (B1) (Nonriveri Deposits (B2) (Nor sits (B3) (Nonriveri oil Cracks (B6) r Visible on Aerial In ined Leaves (B9) ttions:	ator is suff ne) nriverine) ine) magery (E	icient) Salt Crust Biotic Crus Aquatic Inv Hydrogen = Oxidized R Presence of Recent Iroo 7)Other (Exp	(B11) tt (B12) vertebrates Sulfide Od hizospher of Reduced n Reductio lain in Rer	s (B13) or (C1) es along d Iron (C4 on in Plow marks)	Living Root	Hydric Sc 	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
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estrictive La Type: Depth (inch emarks: TOROLOG Tetland Hydro fimary Indicat Call of the second General Mare Saturation Water Mare Saturation Water Mare Sediment I Drift Depose Surface So Inundation Water-Stai Teld Observa Urface Water Vater Table Pr	yer (if present): es): es): es): es): es): es): fology Indicators: tors (any one indicators: tors (any one indicators: (A3) fater (A1) er Table (A2) (A3) fater (A1) er Table (A2) (Norriver oil Cracks (B6) visible on Aerial II ined Leaves (B9) tions: Present? Ye resent? Ye	ator is suff ne) nriverine) rine) magery (E es es	icient) Salt Crust Biotic Crust Aquatic Inv Hydrogen = Oxidized R Presence of Recent Irod 7) Other (Exp No Depth (ind No Depth (ind	(B11) st (B12) vertebrates Sulfide Od Shizospher of Reducer n Reductio plain in Rer ches): <u>3</u> ches): <u>3</u>	s (B13) or (C1) es along d Iron (C4 on in Plow marks)	Living Root	Hydric Sc 	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Saturation     Water Mar     Water Mar     Surface Water     Surface So     Unift Depos     Surface So     Unift Depos     Surface So     Inundation     Water-Stai eld Observa urface Water fater Table Pr aturation Pres coludes capill	Y es): es)	ne) nriverine) ine) magery (E es $\checkmark$ es $\checkmark$	icient) Salt Crust Biotic Crust Biotic Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iroo 7) Other (Exp No Depth (ino No Depth (ino	(B11) (B12) vertebrates Sulfide Od Chizospher of Reduced n Reductic plain in Rer ches): ches): ches):	s (B13) or (C1) es along d Iron (C4 on in Plow marks)	Living Root	Hydric Sc <u>Sec</u> <u>Sec</u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u>	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5) agy Present? Yes No
Type: Depth (inch) emarks: Depth (inch) emarks: Depth (inch) emarks: Drobally (inch) ethand Hydro ethand Hydro ethand Hydro ethand Hydro ethand Hydro ethand Hydro ethand Hydro ethand Hydro imary Indicat yourface Water a Saturation Water-Stai eld Observa Inface Water ater Table Pro ituration Prese cludes capill socribe Reco	Y ology Indicators: tors (any one indicators: tater (A1) er Table (A2) (A3) rks (B1) (Nonriveri Deposits (B2) (Nor sits (B3) (Nonriveri oil Cracks (B6) i Visible on Aerial In ined Leaves (B9) tions: Present? Present? Yesent? Sent? Yesent?	ne) nriverine) ine) magery (E es $\checkmark$ es $\checkmark$ gauge, m	icient)  Salt Crust Biotic Crus Aquatic Inv Hydrogen : Oxidized R Presence o Recent Iroo 7) Other (Exp No Depth (inc No Depth (inc onitoring well, aerial p	(B11) tt (B12) vertebrates Sulfide Od thizospher of Reduced n Reduction plain in Rer ches): ches): photos, pres	s (B13) or (C1) es along d Iron (C4 on in Plow marks)	Living Root	Hydric Sc <u>Sec</u> <u>Sec</u> <u>Hydrolo</u> <u>Hydrolo</u> f available:	ondary Indicators (2 or more required)         Water Marks (B1) (Riverine)         Sediment Deposits (B2) (Riverine)         Drift Deposits (B3) (Riverine)         Drainage Patterns (B10)         Dry-Season Water Table (C2)         Thin Muck Surface (C7)         Crayfish Burrows (C8)         Saturation Visible on Aerial Imagery (C9         Shallow Aquitard (D3)         FAC-Neutral Test (D5)
<b>Depth (inch)</b> Depth (inch) marks: <b>Depth (inch)</b> mark	yer (if present): es):	ator is suff ne) nriverine) ine) magery (E es $\checkmark$ es $\checkmark$ gauge, m	icient) Salt Crust Biotic Crust Aquatic Inv Aquatic Inv Aquatic Inv Oxidized R Presence of Recent Iron 7) Other (Exp No Depth (ind No Depth (ind No Depth (ind onitoring well, aerial p	(B11) (B12) /ertebrates Sulfide Od thizospher of Reduced n Reductio plain in Rer ches): ches): ches): ches): photos, pre	s (B13) or (C1) es along d Iron (C4 on in Plow marks)	Living Root	Hydric Sc 	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5) mgy Present? Yes No

Project/Site: Kimm Property	City/County: Loomis/Place	r	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, Town	ship 11N, Range 7E
Landform (hillslope, terrace, etc.): hillslope	Local relief (concave, convex	, none): <u>convex</u>	Slope (%): <u>10%</u>
Subregion (LRR): C Lat: 38	3°49'11"North Long	121°11'7" West	t Datum: NAD 27
Soil Map Unit Name: Xerorthents, placer areas		NWI classific:	ation: <u>N/A</u>
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🧹 No	(If no, explain in Re	emarks.)
Are Vegetation, Soil, or Hydrology significantly	/ disturbed? Are "Norma	l Circumstances" p	resent? Yes 🖌 No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed,	explain any answer	s in Remarks.)
SUMMARY OF FINDINGS Attach site man showing	, compling point loosti		immentent feeturee etc

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No _✓_ Yes No _✓_	Is the Sampled Area within a Wetland?	Yes No∕
Remarks:			
Upland comparison point for data	a point #3.		

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Use scientific names.)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1. Quercus lobata	50		FAC*	That Are OBL, FACW, or FAC: (A)
2. Quercus wislizeni	20	√	-	
3				For a series Across All Strata: 5 (P)
۵				
T	70			Percent of Dominant Species 40
Sapling/Shrub Stratum				That Are OBL, FACW, or FAC: (A/B)
A Rubus discolor	80	1	FACV#	Bravalanaa Indax warkebaat:
	50			
		•		Iotal % Cover of: Multiply by:
3. Aesculus californica	20		-	OBL species x 1 =
4				FACW species x 2 =
5				FAC species x 3 =
Total Cover:	150			FACU species x 4 =
Herb Stratum				UPL species x 5 =
1				Column Totals: (A) (B)
2.				
3.				Prevalence Index = B/A =
4.				Hydrophytic Vegetation Indicators:
5.				Dominance Test is >50%
6.				Prevalence Index is ≤3.0 <sup>1</sup>
7.				Morphological Adaptations <sup>1</sup> (Provide supporting
8				data in Remarks or on a separate sheet)
Tetal Cavar				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum				
1				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
·				be present.
Z				
Total Cover:				Hydrophytic
% Bare Ground in Herb Stratum % Cover	of Biotic Cr	rust		Present? Yes No
Remarks:				•

Sampling Point: 4

(incries)	Color (moist)	%	Color (moist) % Type	e <sup>1</sup> Loc <sup>2</sup>	Texture	Remarks
-12	7.5 YR 2.5/3	100 no	one			coarse sandy loam
			2			
ype: C=Cc vdric Soil I	ncentration, D=De	pietion, RIVI=Re cable to all L R	BS upless otherwise noted )	Pore Lining, RC=	Root Chan	for Problematic Hydric Soils <sup>3</sup>
Histosol	(A1)		Sandy Redox (S5)		1 cm M	Muck (A9) (I RR C)
Histic Ep	ipedon (A2)		Stripped Matrix (S6)		2 cm M	Muck (A10) (LRR B)
Black His	stic (A3)		Loamy Mucky Mineral (F1)		Reduc	ed Vertic (F18)
Hydroge	n Sulfide (A4)		Loamy Gleyed Matrix (F2)		Red P	arent Material (TF2)
Stratified	Layers (A5) (LRR	C)	Depleted Matrix (F3)		Other	(Explain in Remarks)
_ 1 cm Mu	ck (A9) ( <b>LRR D</b> )		Redox Dark Surface (F6)			
_ Depleted	Below Dark Surfa	ce (A11)	Depleted Dark Surface (F7)			
Sandy M	lucky Mineral (S1)		Vernal Pools (F9)		<sup>3</sup> Indicators	of hydrophytic vegetation and
_ Sandy G	leved Matrix (S4)				wetland	hydrology must be present.
estrictive L	ayer (if present):					
Туре:			_			
Type: Depth (inc	:hes):		_	1	Hydric Soil	Present? Yes No _✓
Type: Depth (inc temarks:	hes):		_	1	Hydric Soil	Present? Yes No 🗹
Type: Depth (inc ?emarks:	:hes):		_	I	Hydric Soil	Present? Yes No _✓
Type: Depth (inc emarks:	:hes):			1	Hydric Soil	Present? Yes No _✓
Type: Depth (ind emarks:	:hes):				Hydric Soil	Present? Yes No _✓
Type: Depth (inc emarks: (DROLO	shes):				Hydric Soil	Present? Yes <u>No</u> ✓
Type: Depth (inc emarks: //DROLOG	GY	:			Hydric Soil	Present? Yes No
Type: Depth (inc emarks: /DROLOG /etland Hyo rimary Indic	shes): GY Irology Indicators ators (any one indi	: cator is sufficie			Hydric Soil	Present? Yes No
Type: Depth (inc emarks: /DROLO /etland Hyc rimary Indic Surface \ Surface \	Shes): GY Irology Indicators ators (any one indi Water (A1)	: cator is sufficie			Hydric Soil	Present? Yes No ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) N® Deposits (D2) (Riverine)
Type: Depth (inc emarks: /DROLOG /etland Hyd rimary Indic Surface High Wa High Wa	Shes): GY Irology Indicators ators (any one indi Water (A1) ter Table (A2)	: cator is sufficie			Hydric Soil	Present? Yes No hdary Indicators (2 or more required) Vater Marks (B1) (Riverine) Gediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drift Deposits (B3) (Riverine)
Type: Depth (inc emarks: /DROLOG /etland Hyc rimary Indic Surface ' High Wa Saturatic Votor M	Shes): GY Irology Indicators ators (any one indi Water (A1) ter Table (A2) on (A3)	: cator is sufficie	nt) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13	)	Hydric Soil	Present? Yes <u>No</u> <u>ndary Indicators (2 or more required)</u> Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Orift Deposits (B3) ( <b>Riverine</b> ) Orainage Patterns (B10) Drainage Patterns (B10)
Type: Depth (inc emarks: <b>DROLOO</b> <b>retland Hyo</b> <b>rimary Indic</b> Surface 1 Surface 1 High Wa Saturatic Water M Saturatic Water M	GY Irology Indicators ators (any one indi Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive t Deposits (B2) (Mo	: cator is sufficie	nt) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13 Hydrogen Sulfide Odor (C'	) ))	Hydric Soil	Present? Yes No hdary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orianage Patterns (B10) Ory-Season Water Table (C2) bin Muck Surface (C7)
Type: Depth (inc emarks: (DROLOO fetland Hyo rimary Indic Surface V High Wa Saturatic Water M Sedimen Sedimen Sedimen	GY frology Indicators ators (any one indi Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive it Deposits (B2) (Nonrive to sits (B3) (Nonrive	: cator is sufficie rine) pnriverine)	nt) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C <sup>-</sup> Oxidized Rhizospheres alcondered from the second from the	) )) I) mg Living Roots (	Hydric Soil V V V S C C C (C3) T	Present? Yes No hdary Indicators (2 or more required) Vater Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Orifi Deposits (B3) ( <b>Riverine</b> ) Orainage Patterns (B10) Ory-Season Water Table (C2) thin Muck Surface (C7) Captish Burrows (C8)
Type: Depth (inc emarks: /DROLOO /etland Hyo rimary Indic Surface ' High Wa Saturatic Water M Sedimen Drift Dep Surface 2	Soli (Packs (B6))	: cator is sufficie rine) pnriverine) erine)	nt) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C <sup>7</sup> ) Oxidized Rhizospheres alc Presence of Reduced Iron Recent Iron Reduction in F	) )) I) Ing Living Roots ( (C4)	Hydric Soil	Present? Yes No ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C1)
Type: Depth (inc emarks: /DROLOO /etland Hyo rimary Indic 	GY Irology Indicators ators (any one indi Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive t Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial	: cator is sufficie rine) pnriverine) erine)	nt) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C' Oxidized Rhizospheres alc Presence of Reduced Iron Recent Iron Reduction in F Other (Explain in Remarks	) ) ng Living Roots ( (C4) Plowed Soils (C6)	Hydric Soil	Present? Yes No ✓ hdary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) hin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C3) Saturation Visible on Aerial Imagery (C3) Saturation Visible on Aerial Imagery (C3)
Type: Depth (inc emarks: //DROLOO //etland Hyo rimary Indic Surface 1 High Wa Saturatic Water M Sedimen Drift Dep Surface 2 Inundatic Water-St	shes): <b>GY</b> <b>Irology Indicators</b> <u>ators (any one indi</u> Water (A1) ter Table (A2) on (A3) arks (B1) ( <b>Nonrive</b> t Deposits (B2) ( <b>No</b> rosits (B3) ( <b>Nonrive</b> Soil Cracks (B6) on Visible on Aerial cained Leaves (B9)	: cator is sufficie rine) porriverine) erine) Imagery (B7)	nt) Salt Crust (B11) Salt Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C <sup>7</sup> Oxidized Rhizospheres alc Presence of Reduced Iron Recent Iron Reduction in F Other (Explain in Remarks	) ) ng Living Roots ( (C4) Nowed Soils (C6) )	Hydric Soil	Present? Yes No ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riveri
Type: Depth (inc emarks: (DROLOO /etland Hyo /etland Hyo /et	thes): GY frology Indicators ators (any one indi Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive t Deposits (B2) (No rosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial cained Leaves (B9) vations:	: cator is sufficie prine) prine) Imagery (B7)	nt) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C <sup>7</sup> Oxidized Rhizospheres alc Presence of Reduced Iron Recent Iron Reduction in F Other (Explain in Remarks	) ) ng Living Roots ( (C4) Powed Soils (C6) )	Second	Present? Yes No hdary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C3 Shallow Aquitard (D3) AC-Neutral Test (D5)
Type: Depth (inc emarks: (DROLOO /etland Hyo /etland Hyo /etland Hyo /surface ' 	Shes): GY Irology Indicators ators (any one indi Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive t Deposits (B2) (No osits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial cained Leaves (B9) vations: er Present?	rine) priverine) erine) Imagery (B7)	nt) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13 Hydrogen Sulfide Odor (C <sup>7</sup> Oxidized Rhizospheres alc Presence of Reduced Iron Recent Iron Reduction in F Other (Explain in Remarks Depth (inches):	) ) I) ing Living Roots ( (C4) Nowed Soils (C6) )	Hydric Soil S V S C S C (C3) T S S S F	Present? Yes No hdary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C3 Shallow Aquitard (D3) (AC-Neutral Test (D5)
Type: Depth (inc Remarks: YDROLOO Vetland Hyd Ydrand Hyd Surface V Surface M Sedimen Drift Dep Surface 4 Unundatio Water Si ield Observ Surface Water Table	GY Irology Indicators ators (any one indi Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive t Deposits (B2) (Norive to Deposits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial cained Leaves (B9) vations: er Present?	rine) priverine) erine) Imagery (B7) fes No fes No	nt) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13 Hydrogen Sulfide Odor (C <sup>7</sup> Oxidized Rhizospheres alc Presence of Reduced Iron Recent Iron Reduction in F Other (Explain in Remarks Depth (inches): Depth (inches):	) ) ng Living Roots ( (C4) Plowed Soils (C6) )	Hydric Soil	Present? Yes No hdary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orainage Patterns (B10) Orainage Patterns (B10) Ory-Season Water Table (C2) hin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C3) Saturation Visible on Aerial Imagery (C3) Shallow Aquitard (D3) AC-Neutral Test (D5)
Type: Depth (inc Remarks: YDROLOO Vetland Hyo Yourface V Surface Vater M Sedimen Sedimen Drift Dep Surface Sedimen Water Sedimen Water Sedimen Water Sedimen Surface Vater Surface Vater Vater Table Saturation Pr	GY Irology Indicators ators (any one indi Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive t Deposits (B2) (Norive toosits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial ained Leaves (B9) vations: er Present?	rine) cator is sufficie ponriverine) erine) Imagery (B7) fes No fes No fes No fes No	nt) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C <sup>7</sup> Oxidized Rhizospheres alc Presence of Reduced Iron Recent Iron Reduction in F Other (Explain in Remarks) Depth (inches): Depth (inches): Depth (inches):	) ) ) ) ) ) ) (C4) ) lowed Soils (C6) )	Hydric Soil	Present? Yes No ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riveri
Type: Depth (inc emarks: TDROLOO fetland Hyo rimary Indic Surface 0 High Wa Saturatic Water M Sedimen Nurface 0 Unift Dep Sedimen Sedimen Nurface 0 Unift Dep Surface 0 Unift Dep Surface 0 Unift Dep Unift Dep 	Ches): Ches): Trology Indicators ators (any one indi Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrive t Deposits (B2) (Norive t Deposits (B2) (Norive Soil Cracks (B6) on Visible on Aerial cained Leaves (B9) vations: er Present? Present? resent? corded Data (strear	rine) prriverine) prriverine) prriverine) lmagery (B7) res No res No res No res No	nt) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13 Hydrogen Sulfide Odor (C <sup>7</sup> Oxidized Rhizospheres alc Presence of Reduced Iron Recent Iron Reduction in F Other (Explain in Remarks Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches):	) ) ) ) ) ) ) ) (C4) ) lowed Soils (C6) )	Hydric Soil	Present? Yes No ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riveri

Project/Site: Kimm Property	City/County: Loomis/Plac	er	Sampling Date:	2/14/2007
Applicant/Owner: Lowell Development, Inc.		_ <sub>State:</sub> _CA	Sampling Point:	5
Investigator(s): Barry Anderson, Erin Gottschalk, Jeff Glazner	Section, Township, Range:	Section 10, Town	nship 11N, Rang	ge 7E
Landform (hillslope, terrace, etc.): hillslope	Local relief (concave, conv	ex, none): <u>convex</u>	Sic	ope (%): <u>10%</u>
Subregion (LRR): C	3°49'21"North Lor	<sub>ng:</sub> <u>121°11'3" Wes</u>	it Datu	Im: NAD 27
Soil Map Unit Name: Andread coarse sandy loam, 2 to 9 perce	nt slopes	NWI classific	ation: N/A	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear?Yes_✓_No	_ (If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	/ disturbed? Are "Norn	nal Circumstances" p	oresent?Yes	/ No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed	l, explain any answe	rs 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?	Yes No Yes No Yes _∕ No	Is the Sampled Area within a Wetland?	Yes No∕						
Remarks:									
Upslope from wetland swale. Up	Upslope from wetland swale. Upland comparison point for data point #6.								

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Use scientific names.)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				Tatal Musel an of Device of
3				Species Across All Strata: 2 (B)
۵ ۸				
T				Percent of Dominant Species 100
Sapling/Shrub Stratum				That Are OBL, FACW, or FAC: (A/B)
1				Prevalence Index worksheet:
I				
2				IOTAI % Cover of: Multiply by:
3				OBL species x 1 =
4				FACW species x 2 =
5				FAC species x 3 =
Total Cover:				FACU species x 4 =
Herb Stratum				UPL species x 5 =
1. Juncus xiphioides	50	✓	OBL	Column Totals: (A) (B)
2 Lolium multiflorum	50	√	FAC*	
				Prevalence Index = B/A =
۵		·		Hydrophytic Vegetation Indicators:
4				✓ Dominance Test is >50%
0				$\frac{1}{2} = \frac{1}{2} $
6				Prevalence index is 30.0
7				data in Remarks or on a separate sheet)
8	100			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Total Cover:	100			
				<sup>1</sup> Indiactors of hydria cail and watland hydrology must
1				be present.
2				
Total Cover:				Hydrophytic Vegetation
% Bare Ground in Herb Stratum % Cover	of Biotic Cr	rust		Present? Yes <u>Ves</u> No
Remarks:				
Patch of Juncus xiphioides is creeping out of (upslo	ope from)	the wetlar	nd.	
	. ,			

|--|

Depth (inches)			in needed to doci	ument the indicat	tor or confiri	m the absence o	of indicators.)
(inches)	Matrix		Red	lox Features			
· · · · · · · · · · · · · · · · · · ·	Color (moist)	%	Color (moist)	%Typ	e <sup>1</sup> Loc <sup>2</sup>		Remarks
0-12	7.5 YR 3/2	100	none			loamy	
			-				
Type: C=C	Concentration, D=Dep	pletion, RM	=Reduced Matrix.	<sup>2</sup> Location: PL=	Pore Lining,	RC=Root Channe	el, M=Matrix.
iyaric Soli	indicators: (Applic	able to all	LKKS, UNIESS OTH	erwise noted.)		Indicators f	or Problematic Hydric Solis :
Histoso	l (A1)		Sandy Re	dox (S5)		1 cm Mu	JCk (A9) (LRR C)
Histic E	pipedon (A2)		Stripped N	Aatrix (S6)		2 cm Mi	JCK (A10) (LRR B) d Vertie (E18)
Black F	nstic (AS) on Sulfido (A4)		Loamy Mu	icky Mineral (F1)		Reduce	a venic (FT8)
Hyuruy Stratifia	ell Sullide (A4)	<b>C</b> )	Loany Gr	Ustriv (E3)		Reu Fai	Entimaterial (TF2)
1 cm M	uck (A9) (LRR D)	<b>C</b> )	Depieted I Redox Da	rk Surface (F6)			
Deplete	d Below Dark Surfac	e (A11)	Depleted [	Dark Surface (F7)			
Thick E	ark Surface (A12)		Redox De	pressions (F8)			
Sandy	Mucky Mineral (S1)		Vernal Po	ols (F9)		<sup>3</sup> Indicators o	f hydrophytic vegetation and
Sandy	Gleyed Matrix (S4)		_	× ,		wetland h	ydrology must be present.
Restrictive	Layer (if present):						
Туре:							
Depth (ir	nches):					Hydric Soil F	Present? Yes No 🖌
Remarks:							
No hydric	soil indicators						
No hydric	soil indicators.						
No hydric	soil indicators.						
lo hydric	soil indicators.						
No hydric YDROLC	soil indicators.						
lo hydric YDROLC Vetland Hy	soil indicators. DGY rdrology Indicators:					Second	ary Indicators (2 or more required)
lo hydric YDROLC Vetland Hy Primary Ind	soil indicators. DGY rdrology Indicators: icators (any one indic	: cator is suff	icient)			<u>Secono</u>	dary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> )
Io hydric YDROLC Vetland Hy Primary IndSurface	soil indicators. DGY rdrology Indicators: icators (any one indic water (A1)	: cator is suff	icient) Salt Crus	st (B11)		<u>Secono</u> Wa Se	lary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> )
Io hydric YDROLC Vetland Hy Primary Ind Surface High W	soil indicators. OGY vdrology Indicators: icators (any one indic Water (A1) ater Table (A2)	: cator is suff	icient) Salt Crus Biotic Cru	st (B11) ust (B12)		<u>Seconc</u> Wa Se Dri	dary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) ft Deposits (B3) ( <b>Riverine</b> )
Vo hydric YDROLC Vetland Hy Primary Ind Surface High W ✓ Saturat	Soil indicators. DGY vdrology Indicators: icators (any one indic Water (A1) iater Table (A2) ion (A3)	: cator is suff	icient) Salt Crus Biotic Cru Aquatic I	st (B11) ust (B12) nvertebrates (B13	;)	<u>Seconc</u> Wa Se Dri Dra	lary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) ft Deposits (B3) ( <b>Riverine</b> ) ainage Patterns (B10)
VDROLC Vetland Hy Primary Ind Surface High W ✓ Saturat Water I	Soil indicators. OGY vdrology Indicators: icators (any one indic water (A1) ater Table (A2) ion (A3) vdarks (B1) (Nonriver	: cator is suff	icient) Salt Crus Biotic Cru Aquatic I Hydrogei	st (B11) ust (B12) nvertebrates (B13 n Sulfide Odor (C <sup>-</sup>	5) 1)	<u>Seconc</u> Wa Se Dri Dra Drg	<u>dary Indicators (2 or more required)</u> ater Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) ft Deposits (B3) ( <b>Riverine</b> ) ainage Patterns (B10) y-Season Water Table (C2)
Vo hydric YDROLC Vetland Hy Primary Ind Surface High W V Saturat Water I Sedime	DGY rdrology Indicators: icators (any one indic Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver ont Deposits (B2) (No	: cator is suff rine) onriverine)	icient) Salt Crus Biotic Cru Aquatic I Hydrogen Oxidized	st (B11) ust (B12) nvertebrates (B13 n Sulfide Odor (C <sup>7</sup> Rhizospheres alc	i) 1) ong Living Ro	<u>Seconc</u> Wa Se Dri Dra Dry pots (C3) Thi	dary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) ft Deposits (B3) ( <b>Riverine</b> ) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7)
Vo hydric YDROLC Vetland Hy Primary Ind Surface High W Saturat Water I Sedime Drift De	Soil indicators. OGY rdrology Indicators: icators (any one indic Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (Noriver posits (B3) (Nonriver)	: cator is suff rine) nriverine) prine)	icient) Salt Crus Biotic Cru Aquatic I Hydroger Oxidized Presence	st (B11) ust (B12) nvertebrates (B13 n Sulfide Odor (C <sup>7</sup> Rhizospheres alc e of Reduced Iron	i) 1) ong Living Ro (C4)	<u>Seconc</u> Wa Se Dri Dra Dry pots (C3) Thi Cra	dary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) ft Deposits (B3) ( <b>Riverine</b> ) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8)
Vetland Hy Primary Ind Surface High W ✓ Saturat Water I Sedime Drift De Surface	Soil indicators. OGY rdrology Indicators: icators (any one indic Water (A1) iater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonriver e Soil Cracks (B6)	: cator is suff rine) onriverine) rine)	icient) Salt Crus Biotic Cru Aquatic I Hydroger Oxidized Presence Recent Ir	st (B11) ust (B12) nvertebrates (B13 n Sulfide Odor (C <sup>-</sup> Rhizospheres alc e of Reduced Iron ron Reduction in F	i) 1) ong Living Ro (C4) Plowed Soils	<u>Seconc</u> Wa Se Dri Dro pots (C3) Thi Cra (C6) Sa	dary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) ft Deposits (B3) ( <b>Riverine</b> ) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C3
Vo hydric YDROLC Vetland Hy Primary Ind Surface High W ✓ Saturat Vater I Sedime Drift De Surface Inundal	Soil indicators. OGY vdrology Indicators: icators (any one indic water (A1) iater Table (A2) ion (A3) vdarks (B1) (Nonriver ent Deposits (B2) (No iposits (B3) (Nonriver a Soil Cracks (B6) ion Visible on Aerial	: cator is suff rine) onriverine) srine) Imagery (B	icient) Salt Crus Biotic Cru Aquatic I Hydroger Oxidized Presence Recent Ir 7) Other (E)	st (B11) ust (B12) nvertebrates (B13 n Sulfide Odor (C <sup>7</sup> Rhizospheres alc e of Reduced Iron ron Reduction in F xplain in Remarks	i) 1) ong Living Ro (C4) Plowed Soils	<u>Seconc</u> Wa Se Dri Dro Dro pots (C3) Thi Cra (C6) Sa	dary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) ft Deposits (B3) ( <b>Riverine</b> ) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C3 allow Aquitard (D3)
Vetland Hy Primary Ind Primary Ind Surface High W ✓ Saturat Water I Sedime Drift De Surface Unift De Surface Unift De Surface Nurface	soil indicators. OGY vdrology Indicators: icators (any one indic water (A1) ater Table (A2) ion (A3) warks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonriver e Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9)	: cator is suff rine) onriverine) erine) Imagery (B	icient) Salt Crus Biotic Cru Aquatic I Hydroger Oxidized Presence Recent Ir 7) Other (E)	st (B11) ust (B12) nvertebrates (B13 n Sulfide Odor (C <sup>7</sup> Rhizospheres alc e of Reduced Iron ron Reduction in F xplain in Remarks	5) 1) ong Living Ro (C4) Plowed Soils ( )	<u>Seconc</u> Wa Se Dri Dro pots (C3) Thi Cra (C6) Sa Sh FA	dary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) ft Deposits (B3) ( <b>Riverine</b> ) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
Vo hydric YDROLC Vetland Hy Primary Ind Surface High W ✓ Saturat Vater I Sedime Drift De Infin de Infin de Infin de Infin de Sedimes Sedi	soil indicators. OGY vdrology Indicators: icators (any one indic water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonriver soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations:	: cator is suff rine) onriverine) orine) Imagery (B	icient) Salt Crus Biotic Cru Aquatic I Hydroger Oxidized Presence Recent Ir 7) Other (E:	st (B11) ust (B12) nvertebrates (B13 n Sulfide Odor (C' Rhizospheres alc e of Reduced Iron ron Reduction in F xplain in Remarks	i) 1) ong Living Ro (C4) Plowed Soils ( )	<u>Seconc</u> Wa Se Dri Dri Dri Dri Cri (C6) Sa FA	lary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) ft Deposits (B3) ( <b>Riverine</b> ) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
VDROLC Vetland Hy Primary Ind Surface High W ✓ Saturat Vater I Sedime Drift De Inundal Water-3 Field Obse Surface Wa	Soil indicators. OGY rdrology Indicators: icators (any one indic Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No eposits (B3) (Nonriver e) Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present?	: cator is suff rine) onriverine) rine) Imagery (B	icient) Salt Crus Biotic Cru Aquatic I Hydroger Oxidized Presence Recent Ir 7) Other (E) No ✓ Depth (i	st (B11) ust (B12) nvertebrates (B13 n Sulfide Odor (C <sup>7</sup> Rhizospheres alc e of Reduced Iron ron Reduction in F xplain in Remarks nches):	i) 1) ong Living Ro (C4) Plowed Soils )	Second           Wa           Se           Dri           Dri           Dri           Dri           Dri           Dri           Dri           C3) Thi           C6) Sa           Sh           FA	dary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) ft Deposits (B3) ( <b>Riverine</b> ) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C3 allow Aquitard (D3) C-Neutral Test (D5)
Vo hydric YDROLC Wetland Hy Primary Ind Surface High W ✓ Saturat Water I Sedime Drift De Drift De Unface Unface Water I =ield Obse Surface Wa Mater Table	Soil indicators.	: cator is suff rine) priverine) rine) lmagery (B	icient) Salt Crus Biotic Cru Aquatic I Hydroger Oxidized Presence Recent Ir 7) Other (E) No Depth (i No Depth (i	st (B11) ust (B12) nvertebrates (B13 n Sulfide Odor (C <sup>-</sup> Rhizospheres alc e of Reduced Iron ron Reduction in F xplain in Remarks nches): nches):	i) 1) ong Living Ro (C4) Plowed Soils ( )	Second           Wa           Se           Dri           C63)         Thi           C66)         Sa           FA	dary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) ft Deposits (B3) ( <b>Riverine</b> ) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C3 allow Aquitard (D3) C-Neutral Test (D5)
Vo hydric YDROLC Vetland Hy Primary Ind Surface High W ✓ Saturat Water I Sedime Drift De Surface Inundat Water-3 Field Obse Surface Wa Nater Table	Soil indicators.	: cator is suff rine) onriverine) rine) Imagery (B /es /es	icient) Salt Crus Biotic Cru Aquatic I Hydroger Oxidized Presence Recent Ir 7) Other (E) No Depth (i No Depth (i No Depth (i)	st (B11) ust (B12) nvertebrates (B13) n Sulfide Odor (C <sup>-</sup> Rhizospheres alc e of Reduced Iron ron Reduction in F xplain in Remarks nches): nches):	i) 1) ong Living Ro (C4) Plowed Soils )	Second           Wa           Se           Dri           C60)         Sa           FA           (C6)         Sh           FA	dary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) ft Deposits (B3) ( <b>Riverine</b> ) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5) Present2 Yes ✓ No
Vo hydric YDROLC Vetland Hy Primary Ind Surface High W ✓ Saturat Water I Sedime Drift De Drift De Drift De Surface Inundal Water-3 \$ield Obsee Surface Wa Nater Table Saturation F includes ca	Soil indicators.	: cator is suff rine) onriverine) rine) Imagery (B ⁄es ⁄es ⁄es	icient) Salt Crus Biotic Cru Aquatic I Hydroger Oxidized Presence Recent Ir 7) Other (E: No Depth (i No Depth (i	st (B11) ust (B12) nvertebrates (B13 n Sulfide Odor (C <sup>-</sup> Rhizospheres alc e of Reduced Iron ron Reduction in F xplain in Remarks nches): nches): nches):	i) 1) ong Living Ro (C4) Plowed Soils ) 	Second            Wa            Se            Dri            Dri            Dri            Dri            Dri            Dri	dary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) ft Deposits (B3) ( <b>Riverine</b> ) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C3 allow Aquitard (D3) C-Neutral Test (D5) Present? Yes No
Vetland Hy Primary Ind Primary Ind Primary Ind Surface High W ✓ Saturat Water I Surface Inundal Water-S ield Obse Surface Wa Vater Table aturation F ncludes ca Pescribe Re	soil indicators. OGY /drology Indicators: icators (any one indic water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriver ent Deposits (B2) (No posits (B3) (Nonriver e Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? pupillary fringe) ecorded Data (stream	rine) onriverine) erine) Imagery (B (es (es (es res	icient) Salt Crus Biotic Crus Aquatic I Hydrogen Oxidized Presence Recent Ir 7) Other (E) No Depth (i No Depth (i No Depth (i onitoring well, aeria	st (B11) ust (B12) nvertebrates (B13 n Sulfide Odor (C' Rhizospheres alc e of Reduced Iron ron Reduction in F xplain in Remarks nches): nches): nches): I photos, previous	i) 1) ong Living Ro (C4) Plowed Soils ) 	Second            Wa            Se            Dra            Dra            Dra            Dra            Dra            Dra            Dra            Dra	dary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) ft Deposits (B3) ( <b>Riverine</b> ) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C3 allow Aquitard (D3) C-Neutral Test (D5) Present? Yes No
Vetland Hy Primary Ind Primary Ind Primary Ind Surface High Wy ✓ Saturat Water I Surface Drift De Drift De Surface Water-1 Field Obse Surface Wa Vater Table Saturation F ncludes ca Principle Ref	Soil indicators.	cator is suff cator is suff onriverine) orine) Imagery (B (es (es (es (es) n gauge, mo	icient) Salt Crus Biotic Crus Aquatic I Hydrogen Oxidized Presence Recent Ir 7) Other (E: No Depth (i No Depth (i No Depth (i ponitoring well, aeria	st (B11) ust (B12) nvertebrates (B13 n Sulfide Odor (C <sup>2</sup> Rhizospheres alc e of Reduced Iron fon Reduction in F xplain in Remarks nches): nches): nches): I photos, previous	3) 1) ong Living Ro (C4) Plowed Soils ) Plowed Soils wet	<u>Seconc</u> <u> </u>	dary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) ft Deposits (B3) ( <b>Riverine</b> ) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C: allow Aquitard (D3) C-Neutral Test (D5) Present? Yes No
Vo hydric YDROLC Vetland Hy Primary Ind Surface High W Saturat Water I Sedime Drift De Surface Inundal Water-3 Sield Obse Surface Wa Vater Table Saturation F Saturation F Saturatio	Soil indicators.	rine) nriverine) rine) lmagery (B /es /es /es n gauge, mo	icient) Salt Crus Biotic Cru Aquatic I Hydroger Oxidized Presence Recent Ir 7) Other (E) No Depth (i No Depth (i No Depth (i no Depth (i	st (B11) ust (B12) nvertebrates (B13 n Sulfide Odor (C' Rhizospheres alc e of Reduced Iron ron Reduction in F xplain in Remarks nches): nches): nches): nches): l photos, previous	i) 1) ong Living Ro (C4) Plowed Soils ( ) 	<u>Seconc</u> Wa Se Dri Dri Dri Dri Cri (C6) Sa FA (C6) Sa FA	lary Indicators (2 or more required) ater Marks (B1) ( <b>Riverine</b> ) diment Deposits (B2) ( <b>Riverine</b> ) ft Deposits (B3) ( <b>Riverine</b> ) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C allow Aquitard (D3) C-Neutral Test (D5) Present? Yes No

Project/Site: Kimm Property	City/County: Loomis/Place	er	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, Town	ship 11N, Ran	ge 7E
Landform (hillslope, terrace, etc.): hillslope	Local relief (concave, conve	x, none): <u>concave</u>	Sid	ope (%): <u>5%</u>
Subregion (LRR): C	3°49'21"North Lon	<sub>g:</sub> <u>121°11'3" Wes</u> t	t Datu	um: NAD 27
Soil Map Unit Name: Andread coarse sandy loam, 2 to 9 perce	nt slopes	NWI classific:	ation: P	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear?Yes _✔_No	(If no, explain in Re	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	/ disturbed? Are "Norm	al Circumstances" p	resent? Yes	/No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed,	explain any answer	s 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?	Yes <mark>✓</mark> N Yes <u>✓</u> N Yes <u>✓</u> N	No No No	Is the Sampled Area within a Wetland?	Yes_✓	No
Remarks:		·			
Wetland swale.					

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Use scientific names.)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				Tatal Number of Device at
3.				Species Across All Strata: (B)
Δ				
Tatal Cavar				Percent of Dominant Species 100
Sapling/Shrub Stratum				That Are OBL, FACW, or FAC: (A/B)
1				Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
Z				
3				OBL species X 1 =
4				FACW species x 2 =
5				FAC species x 3 =
Total Cover:				FACU species x 4 =
<u>Herb Stratum</u>				UPL species x 5 =
1. Juncus xiphioides	90		OBL	Column Totals: (A) (B)
2. Epilobium densiflorum	5		OBL	
3. Lolium multiflorum	10		FAC*	Prevalence Index = B/A =
4				Hydrophytic Vegetation Indicators:
5.				✓ Dominance Test is >50%
6				Prevalence Index is ≤3.0 <sup>1</sup>
7				Morphological Adaptations <sup>1</sup> (Provide supporting
0				data in Remarks or on a separate sheet)
0	105			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
I otal Cover:	105			
A A A A A A A A A A A A A A A A A A A				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
·				be present.
2				
Total Cover:				Hydrophytic Versetation
% Bare Ground in Herb Stratum % Cover	of Biotic Cı	rust		Present? Yes <u>√</u> No
Remarks:				

Sampling Point:

6

Depth	Matrix	to the dep	Redea to aocu	ment the ox Feature	indicato	r or confirm	i the absent	e of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
1-12	7.5 YR 3/2	100	5 YR 3/4	7	С	Μ		coarse sandy loam
			-					
								·
				_				
<sup>1</sup> Type: C=Co	oncentration, D=Dep	letion, RM	=Reduced Matrix.	<sup>2</sup> Locatio	n: PL=Pa	 pre Lining, R	C=Root Cha	nnel, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all	LRRs, unless othe	rwise not	ted.)		Indicato	rs for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Sandy Rec	lox (S5)			1 cm	Muck (A9) ( <b>LRR C</b> )
Histic Ep	oipedon (A2)		Stripped M	atrix (S6)			2 cm	Muck (A10) ( <b>LRR B</b> )
Black Hi	stic (A3)		Loamy Mu	cky Minera	al (F1)		Redu	uced Vertic (F18)
Hydroge	n Sulfide (A4)		Loamy Gle	yed Matrix	(F2)		Red	Parent Material (TF2)
Stratified	l Layers (A5) ( <b>LRR</b>	<b>C</b> )	✓ Depleted N	latrix (F3)			Othe	er (Explain in Remarks)
1 cm Mu	ck (A9) (LRR D)		Redox Dar	k Surface	(F6)			
Depleted	d Below Dark Surfac	e (A11):	Depleted D	ark Surfa	ce (F7)			
Thick Da	ark Surface (A12)		Redox Dep	ressions (	(F8)		3	
Sandy M	lucky Mineral (S1)		Vernal Poo	ols (F9)			Indicato	rs of hydrophytic vegetation and
Sandy G	Bieyed Matrix (S4)						wetlar	nd hydrology must be present.
Restrictive I	ayer (if present):							
Туре:								1
Depth (ind	ches):						Hydric So	oil Present? Yes 🚩 No
Remarks:								
HYDROLO	GY							
Wetland Hy	drology Indicators:						Sec	ondary Indicators (2 or more required)
Primary India	ators (any one indic	ator is suff	icient)					Water Marks (B1) ( <b>Riverine</b> )
Surface	Water (A1)		Salt Crust	(B11)				Sediment Deposits (B2) (Riverine)
Gunace	ter Table (A2)		Oait Crus	(DTT)				Drift Deposits (B2) (Riverine)
nigir wa	(A3)		Biolic Cita	vertebrat	ac (P13)			Drainage Batterns (B10)
Gaturation	on (AS) larka (R1) (Naprivar	ine)			dor(C1)			Draillage Fallents (BT0)
	aiks (Di) (NUTHIVE	nriverine)	Hyurogen	Dhineenh		n Living Dee		This Music Surface (CZ)
Sedimer	It Deposits (B2) (No	nriverine)		Rnizospne	eres along	g Living Roo	ns (C3)	Thin Muck Surface (C7)
	Osits (B3) (NONTIVE	rine)	Presence	or Reduc	ea iron (C	24) 		Crayisn Burrows (Co)
Surface	Soll Cracks (B6)		Recent Ir	on Reduct		wed Solls (C		Saturation Visible on Aerial Imagery (C9)
	on visible on Aerial	Imagery (B	(Ex	plain in Ri	emarks)			Shallow Aquitard (D3)
Water-S	tained Leaves (B9)							FAC-Neutral Test (D5)
Field Obser	vations:							
Surface Wat	er Present? Y	′es	No <u> </u>	nches):				
Water Table	Present? Y	′es_ <b>√</b>	No Depth (ir	nches):	6			,
Saturation P	resent? Y	′es _ ✔	No Depth (ir	nches):	2	Wetla	and Hydrold	ogy Present? Yes _ ✔ No
(includes cap	oillary fringe)							
Describe Re	corded Data (stream	n gauge, m	onitoring well, aerial	photos, p	revious ir	ispections),	if available:	
Pemarka:								
Stonding	otor in coll sit st	Sinches						
Standing W	ater in soil pit at i	o inches.						

Project/Site: Kimm Property	City/County: Loomis/Plac	er	Sampling Date:	2/14/2007
Applicant/Owner: Lowell Development, Inc.		_ <sub>State:</sub> CA	Sampling Point:	7
Investigator(s): Barry Anderson, Erin Gottschalk, Jeff Glazner	Section, Township, Range:	Section 10, Town	nship 11N, Rang	ge 7E
Landform (hillslope, terrace, etc.): hillslope	Local relief (concave, conv	ex, none): <u>convex</u>	Sic	ppe (%): <u>10%</u>
Subregion (LRR): C Lat: 38	5°49'21"North Lor	ng: <u>121°11'3" Wes</u>	it Datu	ım: NAD 27
Soil Map Unit Name: Andread coarse sandy loam, 2 to 9 percent	nt slopes	NWI classific	ation: N/A	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🖌 No	_ (If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Norn	nal Circumstances" p	oresent? Yes	No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed	l, explain any answe	rs 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?	Yes _ ✓ No Yes No _ ✓ Yes No _ ✓	Is the Sampled Area within a Wetland?	Yes No∕					
Remarks:								
Upslope from wetland swale. Upland comparison point for data point #6.								

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Use scientific names.)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				
3				Species Across All Strata: 2 (B)
4				
T				Percent of Dominant Species 100
Sapling/Shrub Stratum				That Are OBL, FACW, or FAC: (A/B)
4				Prevalence Index worksheet:
·				
2				Iotal % Cover of: Multiply by:
3				OBL species x 1 =
4				FACW species x 2 =
5				FAC species x 3 =
Total Cover:				FACU species x 4 =
Herb Stratum				UPI species x 5 =
1. Juncus xiphioides	25	$\checkmark$	OBL	
2 Lolium multiflorum	50	√	FAC*	
3. Vicia villosa	5		-	Prevalence Index = B/A =
4 Geranium molle	10		-	Hydrophytic Vegetation Indicators:
5				✓ Dominance Test is >50%
5				Prevalence Index is ≤3.0 <sup>1</sup>
7				Morphological Adaptations <sup>1</sup> (Provide supporting
<i>I</i>				data in Remarks or on a separate sheet)
δ				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
I otal Cover:				
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1				be present.
2				· · · · · · · · · · · · · · · · · · ·
Total Cover:				Hydrophytic
% Bare Ground in Herb Stratum % Cover	of Biotic Cr	rust		Present? Yes <u>√</u> No
Remarks				
Datab of Junaua vinhigidas is graphing suit of Junals	no from)	the wetter	d	
Fatch of Juncus xiphioides is creeping out of (upsic	phe iroin)	the wettar	iu.	

ampling Point:

7

Profile Des	cription: (Describe	to the de	pth needed to docu	ment the indicator	or confir	m the absence of ir	idicators.)		
Depth	Matrix		Red	ox Features					
(inches)	Color (moist)	%	Color (moist)	%Type'_	Loc		Remarks	) 	
0-12	7.5 YR 3/3	100							
						·			
Type: C=C I <b>ydric Soil</b>	Concentration, D=De	pletion, RI	M=Reduced Matrix.	<sup>2</sup> Location: PL=Por prwise noted.)	e Lining, I	RC=Root Channel, N Indicators for I	∕/=Matrix. Problematic Hydri	c Soils <sup>3</sup> :	
Histoso	ol (A1)		Sandy Red	lox (S5)		1 cm Muck	(A9) ( <b>LRR C</b> )		
Histic E	Epipedon (A2)		Stripped N	atrix (S6)		2 cm Muck	(A10) ( <b>LRR B</b> )		
_ Black H	listic (A3)		Loamy Mu	cky Mineral (F1)		Reduced V	ertic (F18)		
Hydrog	en Sulfide (A4)		Loamy Gle	yed Matrix (F2)		Red Parent	Material (TF2)		
1 cm M Deplete Thick D Sandy I	luck (A9) ( <b>LRR D</b> ) ad Below Dark Surfa Dark Surface (A12) Mucky Mineral (S1) Gleved Matrix (S4)	ce (A11)	Redox Dar Depleted I Redox Dep Vernal Poo	k Surface (F6) Dark Surface (F6) Dressions (F8) Dis (F9)		<sup>3</sup> Indicators of hy wetland byd	/drophytic vegetatic	on and	
Restrictive	Layer (if present):								
Туре:									
Depth (ir	nches):					Hydric Soil Pres	sent? Yes	No✓	
Remarks:									
No hydric :	soil indicators.								
YDROLO	DGY								
Wetland Hy	/drology Indicators	:				Secondary	Indicators (2 or mo	ore required)	
Primary Indi	icators (any one indi	cator is su	fficient)			Water	Marks (B1) (Riveri	ine)	
Surface	e Water (A1)		Salt Crus	t (B11)		Sedim	ent Deposits (B2) (	Riverine)	
High W	ater Table (A2)		Biotic Cru	ist (B12)		Drift D	Drift Deposits (B3) ( <b>Riverine</b> )		
Saturati	ion (A3)		Aquatic Ir	vertebrates (B13)		Draina	Drainage Patterns (B10)		
Water N	Marks (B1) ( <b>Nonrive</b>	rine)	Hydroaer	Sulfide Odor (C1)		Dry-Season Water Table (C2)			

Presence of Reduced Iron (C4)

\_\_\_\_ Other (Explain in Remarks)

 Yes
 No
 ✓
 Depth (inches):

 Yes
 No
 ✓
 Depth (inches):

 Yes
 No
 ✓
 Depth (inches):

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

\_\_\_\_ Recent Iron Reduction in Plowed Soils (C6)

\_\_\_\_ Oxidized Rhizospheres along Living Roots (C3) \_\_\_\_ Thin Muck Surface (C7)

\_\_\_ Crayfish Burrows (C8)

\_\_\_\_ Shallow Aquitard (D3)

\_\_\_\_ FAC-Neutral Test (D5)

Wetland Hydrology Present? Yes \_\_\_\_ No \_\_\_

\_\_\_\_ Saturation Visible on Aerial Imagery (C9)

Remarks:

No saturation in hole.

Sediment Deposits (B2) (Nonriverine)

\_\_\_\_ Inundation Visible on Aerial Imagery (B7)

\_\_\_\_ Drift Deposits (B3) (Nonriverine)

\_\_\_\_ Surface Soil Cracks (B6)

Water-Stained Leaves (B9)

Field Observations:

Saturation Present? (includes capillary fringe)

Surface Water Present? Water Table Present?

Project/Site: Kimm Property	City/County: Loomis/Plac	er	Sampling Date:	2/14/2007
Applicant/Owner: Lowell Development, Inc.		_ <sub>State:</sub> CA	Sampling Point:	8
Investigator(s): Barry Anderson, Erin Gottschalk, Jeff Glazner	Section, Township, Range:	Section 10, Towns	ship 11N, Ran	ge 7E
Landform (hillslope, terrace, etc.): hillslope	Local relief (concave, conve	ex, none): <u>concave</u>	Sic	ope (%): <u>5%</u>
Subregion (LRR): C	3°49'21"North	ng: <u>121°11'3" West</u>	. Datu	ım: NAD 27
Soil Map Unit Name: Andread coarse sandy loam, 2 to 9 perce	nt slopes	NWI classifica	ation: P	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes _✓_ No	_ (If no, explain in Re	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Norn	nal Circumstances" pr	resent? Yes	No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needec	l, explain any answer	s 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?	Yes <mark>✓</mark> Yes <u>✓</u> Yes <u>✓</u>	No No No	Is the Sampled Area within a Wetland?	Yes_✓	No
Remarks:					
Wetland swale.					

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2.				
3				I otal Number of Dominant 1 (P)
۰				
T				Percent of Dominant Species 100
I otal Cover:				That Are OBL, FACW, or FAC: (A/B)
				Provalance Index worksheet:
l				
2				Total % Cover of:Multiply by:
3				OBL species x 1 =
4				FACW species x 2 =
5.				FAC species x 3 =
Total Cover:				FACU species x 4 =
Herb Stratum				LIPI species x 5 =
1 Juncus xiphioides	10		OBL	
2 Lolium multiflorum	90	√	FAC*	
3.				Prevalence Index = B/A =
4				Hydrophytic Vegetation Indicators:
				✓ Dominance Test is ≥50%
J				$\frac{1}{2} = \frac{1}{2} $
b				Marchalovial Advatation <sup>1</sup> (Provide supporting
ſ				data in Remarks or on a separate sheet)
ð	100			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
I otal Cover:	100			
				<sup>1</sup> Indiactors of hydria cail and watland hydrology must
1				be present.
2				
Total Cover:				Hydrophytic
% Bare Cround in Herb Stratum % Cover	of Riotic Cr	net		Vegetation Present2 Ves ✓ No
		usi		
Remarks:				

Sampling Point: \_

8

Depth	Matrix		Rede	x Features		_	
(inches)	Color (moist)	%	Color (moist)	<u>%</u> Type		Texture	Remarks
1-12	10 YR 3/1	100				clay loam	
	·			 			
<sup>1</sup> Type: C=C <b>Hydric Soil</b>	Concentration, D=Dep Indicators: (Applic	_ oletion, RI cable to a	- M=Reduced Matrix. II LRRs, unless othe	 <sup>2</sup> Location: PL=P rwise noted.)	ore Lining,	RC=Root Channel, M Indicators for F	1=Matrix. Problematic Hydric Soils <sup>3</sup> :
Histoso	I (A1)		Sandy Rec	ox (S5)		1 cm Muck	(A9) ( <b>LRR C</b> )
Histic E	pipedon (A2)		Stripped M	atrix (S6)		2 cm Muck	(A10) ( <b>LRR B</b> )
Black H	listic (A3)		Loamy Mu	ky Mineral (F1)		Reduced Ve	ertic (F18)
Hydrog	en Sulfide (A4)		Loamy Gle	yed Matrix (F2)		Red Parent	Material (TF2)
Stratifie	d Layers (A5) ( <b>LRR</b>	<b>C</b> )	Depleted N	latrix (F3)		Other (Expl	ain in Remarks)
1 cm M	uck (A9) ( <b>LRR D</b> )		Redox Dar	k Surface (F6)			
Deplete	d Below Dark Surfac	ce (A11)	Depleted D	ark Surface (F7)			
Thick D	ark Surface (A12)		Redox Dep	ressions (F8)			
Sandy	Mucky Mineral (S1)		Vernal Poo	ls (F9)		<sup>3</sup> Indicators of hy	drophytic vegetation and
Sandy	Gleyed Matrix (S4)					wetland hydr	ology must be present.
Restrictive	Layer (if present):						
Туре:							
Depth (ir	nches):					Hydric Soil Pres	ent? Yes <mark>✓</mark> No
Remarks:						1	
Value 3, cl	nroma 1, and no re	edox cor	centration (conside	ered hydric soil l	based on <sup>r</sup>	1987 Manual).	
IYDROLO	DGY						
Wetland Hy	drology Indicators					Secondary	Indicators (2 or more required

wettand Hydrology Indicat	ors:				Secondary indicators (2 or more required)		
Primary Indicators (any one i	<u>ndicator is su</u>	fficient)			Water Marks (B1) ( <b>Riverine</b> )		
Surface Water (A1)		_	Salt Crust (B11)		Sediment Deposits (B2) (Riverine)		
✓ High Water Table (A2)	✓     High Water Table (A2)     Biotic Crust (B12)				Drift Deposits (B3) (Riverine)		
✓ Saturation (A3)		_	Aquatic Invertebrates (B13	)	Drainage Patterns (B10)		
Water Marks (B1) (Nonr	iverine)	_	Hydrogen Sulfide Odor (C1	)	Dry-Season Water Table (C2)		
Sediment Deposits (B2)	(Nonriverine	) _	Oxidized Rhizospheres ald	ng Living Roots (C3)	) Thin Muck Surface (C7)		
Drift Deposits (B3) (Non	riverine)	_	Presence of Reduced Iron	(C4)	Crayfish Burrows (C8)		
Surface Soil Cracks (B6)	1	_	Recent Iron Reduction in F	lowed Soils (C6)	Saturation Visible on Aerial Imagery (C9)		
Inundation Visible on Ae	rial Imagery (	B7) _	Other (Explain in Remarks)		Shallow Aquitard (D3)		
Water-Stained Leaves (E	39)				FAC-Neutral Test (D5)		
Field Observations:							
Surface Water Present?	Yes	No	Depth (inches):				
Water Table Present?	Yes_✔	No	Depth (inches):		<u>,</u>		
Saturation Present? (includes capillary fringe)	Yes 🖌	No	Depth (inches): 2	Wetland Hy	ydrology Present? Yes _ ✔ No		
Describe Recorded Data (str	eam gauge, r	nonitorin	g well, aerial photos, previous	inspections), if avail	able:		
Remarks:							
Standing water in soil pit	at 4 inches						

Project/Site: Kimm Property	City/County: Loomis/Plac	er	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, Town	ship 11N, Rang	ge 7E
Landform (hillslope, terrace, etc.): hillslope	Local relief (concave, conve	ex, none): <u>convex</u>	Sic	pe (%): <u>10%</u>
Subregion (LRR): C	3°49'21"North Lor	<sub>ng:</sub> <u>121°11'3" Wes</u>	t Datu	Im: NAD 27
Soil Map Unit Name: Andread coarse sandy loam, 2 to 9 perce	nt slopes	NWI classific	ation: N/A	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear?Yes _✓_No	_ (If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	/ disturbed? Are "Norn	nal Circumstances" p	resent?Yes	No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needec	l, explain any answei	rs 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?	Yes No _ ✓ Yes No _ ✓ Yes No _ ✓	Is the Sampled Area within a Wetland?	Yes No_✓
Remarks:			
Upland comparison point for dat	a point #8.		

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Use scientific names.) 1	% Cover	Species?	<u>Status</u>	Number of Dominant Species         That Are OBL, FACW, or FAC:	
2 3				Total Number of Dominant     1       Species Across All Strata:     (B)	
4 Total Cover: Sapling/Shrub Stratum				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B	)
1				Prevalence Index worksheet:	
2				Total % Cover of: Multiply by:	
3				OBI species x 1 =	
4				FACW species x 2 =	
5				FAC species x 3 =	
Total Cover:				FACU species x 4 =	
Herb Stratum				UPL species $x = 5 = 1000$	
1. Juncus xiphioides	10		OBL	Column Totals: (A) (B)	
2. Bromus diandrus	60	√	-		
3				Prevalence Index = B/A =	
4				Hydrophytic Vegetation Indicators:	
5				✓ Dominance Test is >50%	
6				Prevalence Index is ≤3.0 <sup>1</sup>	
7				Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)	
o	70			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
Woody Vine Stratum					
1.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must	
2.				be present.	
Total Cover:				Hydrophytic Vegetation	
% Bare Ground in Herb Stratum % Cover	of Biotic Cr	ust		Present? Yes No	
Remarks:					

Depth	Matrix		Red	lox Feature:	5			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		Remarks
0-12	7.5 YR 2+/2	100	none				loamy	
Туре: С=С	oncentration, D=De	 pletion, RN	- - ∕I=Reduced Matrix.	<sup>2</sup> Location	 : PL=Por	  e Lining, F	C=Root Channe	el, M=Matrix.
lydric Soil	Indicators: (Appli	cable to a	ll LRRs, unless oth	erwise not	ed.)		Indicators fo	or Problematic Hydric Soils <sup>3</sup> :
Histosol Histic E Black Hi Hydroge Stratifier Deplete Thick Da Sandy M Sandy C Restrictive Type: Depth (in Remarks:	(A1) pipedon (A2) stic (A3) en Sulfide (A4) d Layers (A5) (LRR D) d Below Dark Surfa ark Surface (A12) Aucky Mineral (S1) Gleyed Matrix (S4) Layer (if present): ches): soil indicators.	<b>C</b> ) ce (A11)	Sandy Re Stripped M Loamy Mu Loamy Gle Depleted I Redox Da Depleted I Redox De Vernal Po	dox (S5) Matrix (S6) Jicky Minera eyed Matrix Matrix (F3) rk Surface ( Dark Surfac pressions (I ols (F9)	I (F1) (F2) F6) e (F7) F8)		1 cm Mu 2 cm Mu Reduced Red Par Other (E <sup>3</sup> Indicators of wetland h	uck (A9) ( <b>LRR C</b> ) uck (A10) ( <b>LRR B</b> ) d Vertic (F18) rent Material (TF2) Explain in Remarks) f hydrophytic vegetation and hydrology must be present. Present? Yes No _✓
YDROLO	GY							
Wetland Hy	drology Indicators	:					Second	lary Indicators (2 or more required)
Primary Indi	cators (any one indi	<u>cator is su</u>	fficient)				Wa	ter Marks (B1) ( <b>Riverine</b> )
Surface	Water (A1)		Salt Crus	st (B11)			Sec	diment Deposits (B2) ( <b>Riverine</b> )
High Wa	ater Table (A2)		Biotic Cri	ust (B12) nvortobroto	o (P12)		Drit	tt Deposits (B3) ( <b>Riverine</b> )
Gaturati Water M	larks (B1) (Nonrive	rine)	Hvdroge	n Sulfide Or	dor(C1)		Dia	Anage Fatterns (BT0)
Sedime	nt Deposits (B2) (No	onriverine	) Oxidized	Rhizosphe	res along	Livina Roo	ots (C3) Thi	n Muck Surface (C7)
 Drift De	oosits (B3) (Nonrive	erine)	Presence	, e of Reduce	d Iron (C4	)	Cra	ayfish Burrows (C8)
Surface	Soil Cracks (B6)		Recent Ir	on Reducti	on in Plow	ed Soils (	C6) Sat	turation Visible on Aerial Imagery (C9)
Inundati	on Visible on Aerial	Imagery (	B7) Other (E	xplain in Re	marks)		Sha	allow Aquitard (D3)
Water-S	tained Leaves (B9)						FAG	C-Neutral Test (D5)
Field Obser	vations:		./					
Surface Wat	er Present?	Yes	No <u>v</u> Depth (i	nches):		_		
Water Table	Present?	Yes	No 🖌 Depth (i	nches):		_		1
Saturation P	resent?	Yes	No _ ✔ Depth (i	nches):		_ Wetl	and Hydrology	Present? Yes No _✔

Remarks:

Project/Site: Kimm Property	City/County: Loomis/Plac	er	Sampling Date:	2/14/2007
Applicant/Owner: Lowell Development, Inc.		_ <sub>State:</sub> CA	Sampling Point:	10
Investigator(s): Barry Anderson, Erin Gottschalk, Jeff Glazner	Section, Township, Range:	Section 10, Towr	nship 11N, Rar	ige 7E
Landform (hillslope, terrace, etc.): hillslope	_ Local relief (concave, conv	ex, none): <u>convex</u>	SI	ope (%): <u>10%</u>
Subregion (LRR): C Lat: 38	3°49'22"North Lo	<sub>ng:</sub> <u>121°10'55" We</u>	est Dat	um: NAD 27
Soil Map Unit Name: Andread coarse sandy loam, 2 to 9 perce	nt slopes	NWI classific	ation: N/A	
Are climatic / hydrologic conditions on the site typical for this time of y	ear? Yes _✔_ No	_ (If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	/ disturbed? Are "Norr	nal Circumstances" p	oresent? Yes	✓ No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If neede	d, explain any answe	ers 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?	Yes No✓ Yes No✓ Yes_✓ No	Is the Sampled Area within a Wetland?	Yes No _✓				
Remarks:							
Upslope from wetland swale. Upland comparison point for data point #11.							

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Use scientific names.)	<u>% Cover</u>	<u>Species?</u>	Status	Number of Dominant Species
1. Quercus wislizeni	25		-	That Are OBL, FACW, or FAC: (A)
2. Quercus lobata	25	√	FAC*	
3		-		Total Number of Dominant 4
J				Species Across All Strata: (B)
4				Percent of Dominant Species
Total Cover:	50			That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum	50	1		_
1. Rubus discolor	- 50	<b>v</b>	FACV+	Prevalence Index worksheet:
2				Total % Cover of:Multiply by:
3.				OBL species x 1 =
4				FACW species x 2 =
D				
Total Cover:				FACU species x 4 =
<u>Herb Stratum</u>	~	1	EACU	UPL species x 5 =
1. Gallum aparine	5	<b>v</b>	FACU	Column Totals: (A) (B)
2				
3				Prevalence Index = B/A =
4.				Hydrophytic Vegetation Indicators:
5				Dominance Test is >50%
				Prevalence index is $<3.0^{1}$
b				Provalence index is 10.0
ſ				data in Remarks or on a separate sheet)
8				Broblematic Hydrophytic Vegetation <sup>1</sup> (Evaluin)
Total Cover:	5			
Woody Vine Stratum				
1				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
2				be present.
Total Cavor				Hydrophytic
Total Cover.				Vegetation
% Bare Ground in Herb Stratum % Cover	of Biotic Cr	ust		Present? Yes No
Remarks <sup>.</sup>				

SOIL								Sampling Po	oint:	
Profile Des	scription: (Describe	to the de	epth needed to docu	nent the i	ndicator	or confirm	the absence	e of indicators.)		
Depth	Matrix		Redo	Redox Features						
(inches)	Color (moist)	%	Color (moist)		Type'	Loc	<u> </u>	Remar	ks	
0-12	7.5 YR 3/3	100	none	_				sandy decompose	ed granite	
				_						
				_						
			_							
1-				2						
Type: C=0	Concentration, D=Dep	pletion, RI	M=Reduced Matrix.	-Location	: PL=Pon	e Lining, R	C=Root Char	inel, M=Matrix.	Iria Caila <sup>3</sup> .	
myaric Soi	in indicators: (Applic	capie to a	II LKKS, UNIESS OUTE	rwise not	ea.)		indicator		inc Sons :	
Histos	ol (A1)		Sandy Red	ox (S5)			1 cm	Muck (A9) (LRR C)		
Histic I	Epipedon (A2)		Stripped M	atrix (S6)			2 cm Muck (A10) (LRR B)			
Black I	Histic (A3)		Loamy Muc	ky Minera	I (F1)		Reduced Vertic (F18)			
Hydrog	gen Sulfide (A4)	•	Loamy Gle	oamy Gleyed Matrix (F2)			Red Parent Material (TF2)			
Stratifi	ed Layers (A5) (LRR	<b>C</b> )	Depleted N	atrix (F3)			Other	(Explain in Remarks)		
1 cm N	Auck (A9) (LRR D)	(	Redox Darl	(Surface (	(F6)					
	ed Below Dark Surface	ce (A11)		ark Surtac	e(⊢/)					
і піск і	Dark Surface (A12)		Redox Dep	ressions (	-8)		3	<b>.</b>		
Sandy	Mucky Mineral (S1)		Vernal Poo	IS (F9)			Indicators	s of hydrophytic vegeta	tion and	
Sandy	Gleyed Matrix (S4)						wetian	a nyarology must be pr	esent.	
Restrictive	e Layer (if present):									
Type:										
Depth (i	inches):						Hydric Soi	l Present? Yes	No _✓	
Remarks:										
Problem s	soil Assumed not	hydric ba	ased on vegetation	No hydr	ic soil inc	licators				
1 10010111 3				i to riyur	0 000 000	noators.				

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient)	Water Marks (B1) (Riverine)
Surface Water (A1) Salt Crust (B11)	Sediment Deposits (B2) ( <b>Riverine</b> )
✓       High Water Table (A2)       Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
✓ Saturation (A3) Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Livin	ng Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6) Recent Iron Reduction in Plowed S	Soils (C6) Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes <u>✓</u> No Depth (inches): <u>11</u>	,
Saturation Present? Yes <u>✓</u> No Depth (inches): <u>8</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>✓</u> No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	ions), if available:
Remarks:	
Unusually high ground water table at time of field survey, however, lower gro 11). Prolonged saturation is not evidenced in the vegetation or soils.	ound water level than wetland data point (data point

Project/Site: Kimm Property	City/County: Loomis/Place	er	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, Town	ship 11N, Ran	ge 7E
Landform (hillslope, terrace, etc.): hillslope	Local relief (concave, conve	x, none): <u>concave</u>	Sic	ope (%): <u>5%</u>
Subregion (LRR): C	6°49'22"North Long	<sub>g:</sub> <u>121°10'55" We</u>	st Datu	ım: NAD 27
Soil Map Unit Name: Andread coarse sandy loam, 2 to 9 perce	nt slopes	NWI classific	ation: P	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes _✔_ No	(If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Norma	al Circumstances" p	resent?Yes	No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed,	explain any answer	rs 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?	Yes <u>✓</u> No Yes <u>✓</u> No Yes <u>✓</u> No	Is the Sampled Area within a Wetland?	Yes_✓	No
Remarks:				
Wetland swale.				

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Use scientific names.)	<u>% Cover</u>	<u>Species?</u>	Status	Number of Dominant Species
1. Quercus wislizeni	20		-	That Are OBL, FACW, or FAC: (A)
2 Quercus lobata	50	√	FAC*	
2		-		Total Number of Dominant 4
5				Species Across All Strata: (B)
4				Percent of Dominant Species
Total Cover:				That Are OBL, FACW, or FAC: 75 (A/B)
Sapling/Shrub Stratum	40			
1. Rubus discolor	40		FACV+	Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
3				OBL species x 1 =
4				FACW species x 2 =
5.				FAC species x 3 =
 Total Cover:	40			FACU species x 4 =
Herb Stratum				UPL species $x 5 =$
1. Juncus xiphioides	5	√	OBL	Column Totals: (A) (B)
2				
3.				Prevalence Index = B/A =
4				Hydrophytic Vegetation Indicators:
5				Dominance Test is >50%
6				Prevalence Index is ≤3.0 <sup>1</sup>
7		_		Morphological Adaptations <sup>1</sup> (Provide supporting
0				data in Remarks or on a separate sheet)
0				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
I otal Cover:				
				<sup>1</sup> Indiactors of hydria cail and watland hydrology must
1				he present
2				
Total Cover:				Hydrophytic
% Bare Ground in Herb Stratum % Cover	of Biotic Cr	ust		Vegetation Present? Yes <u>√</u> No
Remarks:				

Depth	Matrix		Redo	x Features	6					
inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-12	7.5 YR 3/3	100	none					sandy decomposed granite		
	·									
	·									
	·									
Туре: С=С	Concentration, D=De	pletion, RI	M=Reduced Matrix.	<sup>2</sup> Location	: PL=Por	e Lining, R	C=Root Char	nnel, M=Matrix.		
lydric Soil	Indicators: (Applie	cable to a	II LRRs, unless othe	rwise note	ed.)		Indicator	s for Problematic Hydric Soils <sup>3</sup> :		
_ Histoso	l (A1)		Sandy Red	ox (S5)			1 cm	Muck (A9) (LRR C)		
Histic E	pipedon (A2)		Stripped Ma	Stripped Matrix (S6)				2 cm Muck (A10) (LRR B)		
Black ⊢	listic (A3)		Loamy Mud	ky Minera	(F1)		Reduced Vertic (F18)			
Hydrog	en Sulfide (A4)		Loamy Gley	ed Matrix	(F2)		Red Parent Material (TF2)			
Stratifie	d Layers (A5) (LRR	<b>C</b> )	Depleted M	Depleted Matrix (F3)			Other (Explain in Remarks)			
1 cm M	uck (A9) (LRR D)		Redox Dark	Surface (	F6)		_			
 Deplete	d Below Dark Surfa	ce (A11)	Depleted D	ark Surfac	e (F7)					
Thick D	ark Surface (A12)	. ,	Redox Dep	ressions (I	-8)					
 Sandv	Mucky Mineral (S1)		Vernal Pool	s (F9)	- /		<sup>3</sup> Indicator	s of hydrophytic vegetation and		
Sandy	Gleyed Matrix (S4)						wetlan	d hydrology must be present.		
Restrictive	Layer (if present):									
Туре:										
	nches):						Hydric So	il Present? Yes No		
Depth (ir							•			
Depth (ir ?emarks:										

## HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient)	Water Marks (B1) (Riverine)
Surface Water (A1) Salt Crust (B11)	Sediment Deposits (B2) ( <b>Riverine</b> )
✓       High Water Table (A2)       Biotic Crust (B12)	Drift Deposits (B3) ( <b>Riverine</b> )
✓ Saturation (A3) Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Liv	ing Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6) Recent Iron Reduction in Plowed	Soils (C6) Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes ✓ No Depth (inches):	,
Saturation Present? Yes <u>Ves</u> No <u>Depth</u> (inches): <u>1</u> (includes capillary fringe)	Wetland Hydrology Present? Yes _ ✓ No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspe-	tions), if available:
Remarks:	
Ground water near surface of soil pit. Higher ground water level than uplan	d comparison points (data points 10 and 12).

Project/Site: Kimm Property	City/County: Loomis/Plac	er	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, Town	ship 11N, Ran	ge 7E
Landform (hillslope, terrace, etc.): hillslope	Local relief (concave, conve	ex, none): <u>convex</u>	Sic	ope (%): <u>10%</u>
Subregion (LRR): C Lat: 38	8°49'22"North Lor	<sub>ng:</sub> <u>121°10'55" We</u>	st Datu	Im: NAD 27
Soil Map Unit Name: Andregg coarse sandy loam, 2 to 9 perce	nt slopes	NWI classific:	ation: N/A	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes _✓_ No	_ (If no, explain in Re	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Norn	nal Circumstances" p	resent? Yes	No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed	l, explain any answer	rs 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?	Yes Yes Yes✓	No No No	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					
Upland comparison point.					

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Use scientific names.)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1. Quercus wislizeni	50		-	That Are OBL, FACW, or FAC: (A)
2. Quercus lobata	50	√	FAC*	
2		-		Total Number of Dominant 4
				Species Across All Strata: (B)
4	400			Percent of Dominant Species
Total Cover:	100			That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum	00	/		
1. Rubus discolor	0		FACV+	Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
3				OBL species x 1 =
4				EACW species x 2 =
+				
5				FAC species x 3 =
Total Cover:	0			FACU species x 4 =
Herb Stratum	_			UPL species x 5 =
1. Galium aparine	5		FACU	Column Totals: (A) (B)
2				
3				Prevalence Index = B/A =
4.				Hydrophytic Vegetation Indicators:
5				Dominance Test is >50%
6.				Prevalence Index is ≤3.0 <sup>1</sup>
7				Morphological Adaptations <sup>1</sup> (Provide supporting
9				data in Remarks or on a separate sheet)
o:				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
I otal Cover:				
				<sup>1</sup> Indiactors of hydric coll and wattend hydrology myst
1				he present
2				
Total Cover:				Hydrophytic
% Dans Oracia dia Usah Otastura	- ( D'- ('- O			Vegetation
% Bare Ground in Herb Stratum % Cover	of BIOLIC CI	'ust		Present? Yes No
Remarks:				

Sampling Point: \_\_\_\_

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Profile Desc	ription: (Describe	to the de	pth needed to docu	ment the in	dicator o	or confirm	n the absence	of indicators.)
Depth	Matrix	rix Redox Features						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-12	7.5 YR 3/3	100	none					sandy loam
		·						
				:				
<sup>1</sup> Type: C=Co	oncentration, D=Dep	letion, RM	I=Reduced Matrix.	<sup>2</sup> Location:	PL=Pore	e Lining, R	C=Root Chan	nel, M=Matrix.
Hydric Soil I	ndicators: (Applic	able to a	I LRRs, unless othe	rwise note	d.)		Indicators	for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Sandy Red	ox (S5)			1 cm N	Muck (A9) (LRR C)
Histic Ep	ipedon (A2)		Stripped M	atrix (S6)			2 cm N	Muck (A10) ( <b>LRR B</b> )
Black Hi	stic (A3)		Loamy Mud	ky Mineral	(F1)		Reduc	ed Vertic (F18)
Hydroge	n Sulfide (A4)		Loamy Gle	yed Matrix (	F2)		Red P	arent Material (TF2)
Stratified	l Layers (A5) ( <b>LRR (</b>	C)	Depleted Matrix (F3)				Other	(Explain in Remarks)
1 cm Mu	ck (A9) ( <b>LRR D</b> )		Redox Darl	Surface (F)	6)			
Depleted	l Below Dark Surfac	e (A11)	Depleted D	ark Surface	(F7)			
Thick Da	rk Surface (A12)		Redox Dep	ressions (F	8)			
Sandy N	lucky Mineral (S1)		Vernal Poo	ls (F9)			<sup>3</sup> Indicators	of hydrophytic vegetation and
Sandy G	leyed Matrix (S4)						wetland	hydrology must be present.
Restrictive L	.ayer (if present):							
Туре:								
Depth (inc	:hes):						Hydric Soil	Present? Yes No _✔
Remarks:								
No hydric s	oil indicators pres	ent.						
HYDROLO	GY							
Matland Hyp							Saaa	dony Indiactors (2 or more required)

wetland Hydrology Indicators:	Secondary Indicators (2 or more required)						
Primary Indicators (any one indicator is sufficient)	Water Marks (B1) (Riverine)						
Surface Water (A1) Salt Crust (B11)	Sediment Deposits (B2) (Riverine)						
✓ High Water Table (A2) Biotic Crust (B12)	Drift Deposits (B3) (Riverine)						
✓ Saturation (A3) Aquatic Invertebrates (B13)	Drainage Patterns (B10)						
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)						
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living	g Roots (C3) Thin Muck Surface (C7)						
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)						
Surface Soil Cracks (B6) Recent Iron Reduction in Plowed S	oils (C6) Saturation Visible on Aerial Imagery (C9)						
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Shallow Aquitard (D3)						
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)						
Field Observations:							
Surface Water Present? Yes No Depth (inches):							
Water Table Present? Yes <u>✓</u> No Depth (inches): <u>10</u>							
Saturation Present? Yes <u>✓</u> No Depth (inches): <u>10</u> (includes capillary fringe)	Wetland Hydrology Present? Yes 🖌 No						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspecti	ons), if available:						
Remarks:							
Unusually high ground water table at time of field survey, however, lower ground water level than wetland data point (data point 11). Prolonged saturation is not evidenced in the vegetation or soils.							

Project/Site: Kimm Property	City/County: Loomis/Place	er	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, Towr	nship 11N, Ran	ge 7E
Landform (hillslope, terrace, etc.): hillslope	Local relief (concave, conve	ex, none): <u>convex</u>	Sic	ope (%): <u>10%</u>
Subregion (LRR): C	3°49'22"North Lor	<sub>ig:</sub> <u>121°10'53" We</u>	est Datu	ım: NAD 27
Soil Map Unit Name: Andread coarse sandy loam, 2 to 9 perce	nt slopes	NWI classific	ation: N/A	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes _✓_ No	_ (If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	/ disturbed? Are "Norm	nal Circumstances" p	oresent?Yes	No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed	, explain any answe	ers 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?	Yes No✓ Yes No✓ Yes No✓	Is the Sampled Area within a Wetland?	Yes No✓			
Remarks:						
I bland comparison data point. Suspect area on topo. Actually upslope from wetland swale						

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Species
1. Quercus wislizeni	80		-	That Are OBL, FACW, or FAC: (A)
2				
3				Species Across All Strate: 2 (B)
۰				
*	80			Percent of Dominant Species 50
I otal Cover:				That Are OBL, FACW, or FAC: (A/B)
<ul> <li>Rubus discolor</li> </ul>	20	1	FACV	Brovalance Index worksheet:
2				I otal % Cover of: Multiply by:
3				OBL species x 1 =
4				FACW species x 2 =
5.				FAC species x 3 =
Total Cover:	20			FACU species x 4 =
<u>Herb Stratum</u>				UPL species x 5 =
1				Column Totals: (A) (B)
2.				( )
3.				Prevalence Index = B/A =
4.				Hydrophytic Vegetation Indicators:
5.				Dominance Test is >50%
6.				Prevalence Index is ≤3.0 <sup>1</sup>
7.				Morphological Adaptations <sup>1</sup> (Provide supporting
8				data in Remarks or on a separate sheet)
Total Cavar				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum				
1				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
·				be present.
2				
Total Cover:				Hydrophytic Vegetation
% Bare Ground in Herb Stratum % Cover	of Biotic Cr	rust		Present? Yes No
Remarks:				

Sampling Point:

13

	Matrix		Red	ox Features					
(inches)	Color (moist)	%	Color (moist)	<u>%</u> Typ	pe <sup>1</sup> Loc <sup>2</sup>	Texture	Remar	ks	
0-12	7.5 YR 3/3	100				sai	ndy loam		
<sup>1</sup> Type: C=C Hydric Soil	oncentration, D=De Indicators: (Appli	pletion, RI	– – – – M=Reduced Matrix. II LRRs, unless othe	<sup>2</sup> Location: PL: prwise noted.)	=Pore Lining, F	C=Root Channel, I Indicators for	M=Matrix. Problematic Hyd	ric Soils <sup>3</sup> :	
Histosol	(A1)		Sandy Rec	lox (S5)		1 cm Muck	(A9) ( <b>LRR C</b> )		
HISUC E	pipedon (A2) istic (A3)		Stripped M	latrix (S6) cky Mineral (E1)		Reduced Vertic (E18)			
Hvdrog	en Sulfide (A4)		Loamy Gle	ved Matrix (F2)	,	Red Paren	t Material (TE2)		
Stratifie	d Lavers (A5) (LRR	C)	Depleted N	Aatrix (E3)		Other (Explain in Remarks)			
1 cm Mi	uck (A9) (LRR D)	-,	Redox Dar	k Surface (F6)					
Deplete	d Below Dark Surfa	ce (A11)	Depleted D	ark Surface (F7	<b>'</b> )				
Thick D	ark Surface (A12)	. ,	Redox Dep	pressions (F8)	,				
Sandy M	Mucky Mineral (S1)		Vernal Poo	ds (F9)		<sup>3</sup> Indicators of h	ydrophytic vegeta	tion and	
Sandy (	Gleyed Matrix (S4)					wetland hyd	rology must be pr	esent.	
Restrictive	Layer (if present):								
Туре:									
Depth (in	ches):					Hydric Soil Pre	sent? Yes	No✓	
Remarks:	oil indiactora pro	sent.							
Remarks: No hydric s	soli indicators pre								
Remarks: No hydric s									

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficier	nt)	Water Marks (B1) (Riverine)
Surface Water (A1)	Sediment Deposits (B2) ( <b>Riverine</b> )	
High Water Table (A2)	Biotic Crust (B12)	Drift Deposits (B3) ( <b>Riverine</b> )
Saturation (A3)	Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Livir	ng Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Recent Iron Reduction in Plowed 3	Soils (C6) Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)		FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No	✓ Depth (inches):	
Water Table Present? Yes No	✓ Depth (inches):	
Saturation Present? Yes No (includes capillary fringe)	✓ Depth (inches):	Wetland Hydrology Present? Yes No∕
Describe Recorded Data (stream gauge, monito	pring well, aerial photos, previous inspec	tions), if available:
Remarks:		
No wetland hydrology indictors present		
ne weitand nydrology maletere precent.		

Project/Site: Village at Loomis	City/County: Loomis/Placer	Sampling Da	ate: <u>03/30/2014</u>				
Applicant/Owner: The True Life Companies	State: <u>CA</u>	Sampling Po	oint: <u>14</u>				
Investigator(s): <u>Jeff Glazner</u> Section, To	wnship, Range: <u>S10, T11N, R7</u>	<u> </u>					
Landform (hillslope, terrace, etc.): <u>Hillslope</u>	Local relief (concave, con	vex, none): <u>concave</u>	Slope (%): <u>0</u>				
Subregion (LRR): Mediterranean California (LRF	<u>R C)</u> Lat: <u>38.82128510</u>	Long: <u>-121.18942230</u>	Datum: <u>WGS84</u>				
Soil Map Unit Name: <u>Andregg coarse sandy loa</u>	Soil Map Unit Name: <u>Andregg coarse sandy loam, 2 to 9 percent slopes</u> NWI classification:						
Are climatic/hydrologic conditions on the site t	ypical for this time of year? Ye	es(if no, expla	in in Remarks.)				
Are Vegetation, Soil, or Hydrology sig	nificantly disturbed?	Are "Normal Circumst	tances" present? <u>Yes</u>				
Are Vegetation, Soil, or Hydrology na	turally problematic?	(if needed, explain an	y answers in Remarks.)				

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

		-				
Hydrophytic Vegetation Present?	Yes					
Hydric Soil Present?	Yes					
Wetland Hydrology Present? Yes						
		Is the Sampled Area within a Wetland?	Yes			
Remarks: Low spot in swale that holds water for prolonged periods during growing season.						

#### **VEGETATION – Use scientific names of plants.**

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size: <u>0</u> )	% Cover	Species?	Status	Number of Dominant Species	
1. Quercus wislizeni	10	No	UPL	That Are OBL, FACW, or FAC: <u>2(</u> A)	
2.					
3.				Total Number of Dominant	
4.				Species Across All Strata: 2 (B)	
Total Cover = 10					
				Percent of Dominant Species	
<u>Sapling/Shrub Stratum</u> (Plot size: 0)				That Are OBL, FACW, or FAC: 100 (A/B)	
1.				<u></u> (1,1,5)	
2.				Prevalence Index worksheet	
3.					
4.				Total % Cover of: Multiply by:	
5.				OBL species 20 $x = 1$	
Total Cover = <u>0</u>				FACW species $0 \times 2 = 0$	
<u>Herb Stratum</u> (Plot size: <u>0</u> )				FAC species $65 \times 3 = 195$	
1. Lolium perenne	<u>60</u>	Yes	FAC	FACU species 15 $x 4 = 60$	
2. <u>Lactuca serriola</u>	<u>5</u>	No	FACU	$\frac{1}{100} \text{ species} \qquad \frac{10}{100} \text{ x} = 0$	
3. <u>Galium aparine</u>	<u>10</u>	No	FACU	Column Totals: $100 (\Delta)$ 275 (B)	
4. <u>Rumex crispus</u>	<u>5</u>	No	FAC		
5. Lythrum hyssopifolium	20	Yes	OBL	Prevalence Index – $B/\Lambda = 2.75$	
6.				$r = b/A = \frac{2.75}{2.75}$	
7.					
8.					
Total Cover = 80					
Woody Vine Stratum (Plot size: 0)				Hydrophytic Vegetation Indicators:	
1				X Dominance Test is >50%	
2				X Prevalence Index is $< 3.0^{1}$	
Total Cover = 0				Morphological Adaptations <sup>1</sup> (Provide supportir	nσ
				data in Remarks or on a separate sheet)	6
				Broblomatic Hydrophytic Vogotation <sup>1</sup> (Evaluin	
% Para Ground in Harb Stratum: 5					1)
% Cover of Pietic Crust: 0				<sup>1</sup> Indicators of hydric coil and watland hydrology	
% Cover of Biotic Crust. <u>o</u>				much be present unless disturbed or problematic	
				must be present, unless disturbed or problematic.	
				Hydrophytic Vegetation Present? Yes	
Remarks: Ryegrass dominated swale					

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

	Mat	<u>rix</u>		<u>Redox Fe</u>	atures					
Depth	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
(inches)										
<u>8</u>	<u>7.5YR 4/2</u>	<u>95</u>	5YR 3/4	<u>5</u>	RM	M	Coarse Sandy Loa	m	<u>Friable</u>	
<sup>1</sup> Type: C=	Concentration D	=Denletion	RM=Reduced N	Aatrix CS=	Covered c	or Coated	Sand Grains <sup>2</sup> Loca	ation · Pl =	=Pore Lining M=Matrix	
- Type: C		Depiction	, nui-neddeed i		covered e					
Hydric So	il Indicators: (Ap	olicable to	all LRRs, unless	otherwise	noted.)			Indicat	ors for Problematic Hydric Soils <sup>°</sup> :	
Histo	osol (A1)		_	Sandy F	Redox (S5)			1 c	m Muck (A9) ( <b>LRR C</b> )	
Histic	c Epipedon (A2)		_	Stripped Matrix (S6)				2 cm Muck (A10) ( <b>LRR B</b> )		
Black	Histic (A3)			Loamy Mucky Mineral (F1)				Reduced Vertic (F18)		
Hydro	ogen Sulfide (A4)			Loamy Gleyed Matrix (F2)				Red Parent Material (TF2)		
Strati	fied Layers (A5) (L	.RR C)		C Depleted	d Matrix (F	-3)		Other (Explain in Remarks)		
1 cm	Muck (A9) (LRR D	)		Redox D	ark Surfac	ce (F6)				
Deple	eted Below Dark S	urface (A11	L)	Deplete	d Dark Sur	face (F7)				
Thick	Dark Surface (A12	2)		Redox Depressions (F8)					<sup>3</sup> Indicators of hydrophytic vegetation and	
Sandy	, Mucky Mineral (	S1)		Vernal Pools (F9)				wetland hydrology must be present, unless		
Sandy	, Gleved Matrix (S	(4)			dist				ped or problematic.	
Restrictiv	e Laver (if presen	, nt):							p	
Type:		.,.								
Depth (inches): <u>0</u>							Hydric	Soil Present? Yes		
Remarks:	Prominent redo	ox in well-d	rained soil							
L										

## HYDROLOGY

Wetland Hydrology Indicators:	Wetland Hydrology Indicators:					
Primary Indicators (minimum of one required;	Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (two or more required)					
Surface Water (A1)	Salt Crust (B11)		Water Marks (B1) ( <b>Riverine</b> )			
High Water Table (A2)	Biotic Crust (B12)		Sediment Deposits (B2) (Riverine)			
<u>X</u> Saturation (A3)	Aquatic Invertebrates (B13)		Drift Deposits (B3) ( <b>Riverine</b> )			
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)		Drainage Patterns (B10)			
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living	g Roots (C3)	Dry-Season Water Table (C2)			
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)		Crayfish Burrows (C8)			
Surface Soil Cracks (B6)	Recent Iron Reduction in Tilled Soi	ls (C6)	Saturation Visible on Aerial Imagery (C9)			
Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)		Shallow Aquitard (D3)			
Water-Stained Leaves (B9)	Other (Explain in Remarks)		FAC-Neutral Test (D5)			
Field Observations:			U			
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? Yes				
Describe Recorded Data (stream gauge, monito	oring well, aerial photos, previous inspec	ctions), if availa	able:			
Remarks: 2" rain in past 3 days.						

Project/Site: Village at Loomis	City/County: Loomis/Placer	Sampling Date	e: <u>03/30/2014</u>				
Applicant/Owner: The True Life Companies	State: <u>CA</u>	Sampling Poin	nt: <u>15</u>				
Investigator(s): Jeff Glazner Section, Tov	vnship, Range: <u>S10, T11N, R7</u>	<u>E</u>					
Landform (hillslope, terrace, etc.): Drainageway	Local relief (concave, con	ivex, none): <u>concave</u> Sl	ope (%): <u>1</u>				
Subregion (LRR): Mediterranean California (LRR	<u>C)</u> Lat: <u>38.82150870</u>	Long: <u>-121.18854780</u>	Datum: <u>WGS84</u>				
Soil Map Unit Name: Andregg coarse sandy loan	Soil Map Unit Name: <u>Andregg coarse sandy loam, 2 to 9 percent slopes</u> NWI classification:						
Are climatic/hydrologic conditions on the site typical for this time of year? <u>No</u> (if no, explain in Remarks.)							
Are Vegetation, Soil, or Hydrology sign	nificantly disturbed?	Are "Normal Circumstar	nces" present? <u>No</u>				
Are Vegetation, Soil, or Hydrology nat	urally problematic?	(if needed, explain any a	answers in Remarks.)				

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

		-	
Hydrophytic Vegetation Present?	Yes		
Hydric Soil Present?	No		
Wetland Hydrology Present? Yes			
		Is the Sampled Area within a Wetland?	Yes
Remarks: well defined wetland swale	in riparian corridor.		

#### **VEGETATION – Use scientific names of plants.**

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>0</u> )	% Cover	Species?	Status	Number of Dominant Species
1. Populus deltoides	25	Yes	FAC	That Are OBL, FACW, or FAC: <u>3(</u> A)
2.				
3.				Total Number of Dominant
4.				Species Across All Strata: 3 (B)
Total Cover = 25				
				Percent of Dominant Species
<u>Sapling/Shrub Stratum</u> (Plot size: 0)				That Are OBL EACW, or EAC: $100 (A/B)$
1.				$\frac{100}{100}$
2.				Prevalence Index worksheet
3.				
4.				Total % Cover of: Multiply by:
5.				$\frac{10001}{8} 1000000000000000000000000000000000000$
Total Cover = 0				$\frac{50}{50} \times 1 - \frac{50}{50}$
Herb Stratum (Plot size: 0)				FACtive species $5 \times 2 - 10$
1. Eleocharis pachycarpa	50	Yes	OBL	FAC species $55 \times 3 = 165$
2 Rumex crispus	20	Yes	FAC	FACU species $\underline{0}$ $x 4 = \underline{0}$
3 Cynerus eragrostis	5	No	FACW	UPL species $\underline{0}$ x 5 = $\underline{0}$
4 Holcus lanatus	10	No	FAC	Column lotals: $110$ (A) $225$ (B)
5	10	<u>110</u>	<u>1/10</u>	
5.				Prevalence Index = $B/A = 2.05$
0.				
7.				
8.				
$10tal Cover = \underline{85}$				
Woody Vine Stratum (Plot size: 0)				Hydrophytic Vegetation Indicators:
1.				<u>X</u> Dominance Test is >50%
2.				<u>X</u> Prevalence Index is $\leq 3.0^{\circ}$
Total Cover = <u>0</u>				Morphological Adaptations <sup>⊥</sup> (Provide
				supporting data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
% Bare Ground in Herb Stratum: <u>5</u>				
% Cover of Biotic Crust: <u>15</u>				<sup>1</sup> Indicators of hydric soil and wetland hydrology
				must be present, unless disturbed or problematic.
				· · ·
				Understantis Verstation Present2 Ver
				Hydropnytic Vegetation Present? Yes
Remarks: Strongly hydrophytic herbaceous layer in swale	bottom.			

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

	Mat	t <u>rix</u>		Redox Fe	<u>atures</u>					
Depth	Color (moist)	%	Color (moist	) %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
(inches)										
<u>8</u>	<u>10YR 4/1</u>	<u>95</u>	<u>7.5YR 4/6</u>	<u>5</u>	<u>C</u>	M	Sandy Clay Loan	<u>n</u>		
<sup>1</sup> Type: C=	Concentration, D	=Depletion	, RM=Reduced	Matrix, CS=	Covered c	or Coated	Sand Grains. <sup>2</sup> Lo	cation: PL=Pore Lining, M=Matrix		
Hydric So	il Indicators: (App	plicable to	all LRRs, unless	s otherwise	noted.)			Indicators for Problematic Hydric Soils <sup>3</sup> :		
Histo	sol (A1)			Sandy F	Redox (S5)			1 cm Muck (A9) ( <b>LRR C</b> )		
Histic	c Epipedon (A2)			Stripped	l Matrix (S	6)		2 cm Muck (A10) ( <b>LRR B</b> )		
Black	Histic (A3)			Loamy N	Aucky Mir	neral (F1)		Reduced Vertic (F18)		
Hydro	ogen Sulfide (A4)			Loamy G	Sleyed Ma	trix (F2)		Red Parent Material (TF2)		
Strati	fied Layers (A5) (L	.RR C)		X Depleted Matrix (F3)				Other (Explain in Remarks)		
1 cm	Muck (A9) (LRR D	)		Redox D	ark Surfac	ce (F6)				
Deple	ted Below Dark S	urface (A11	L)	Deplete	d Dark Sur	face (F7)				
Thick	Dark Surface (A12	2)		Redox Depressions (F8)				<sup>3</sup> Indicators of hydrophytic vegetation and		
Sandy	/ Mucky Mineral (	S1)		Vernal Pools (F9)				wetland hydrology must be present, unless		
Sandy	/ Gleyed Matrix (S	54)						disturbed or problematic.		
Restrictiv	e Layer (if presen	nt):								
Type:										
Depth (i	inches): <u>0</u>					Hydric Soil Present? Yes				
Remarks:	Hydric soils stro	ongly expre	ssed					•		

#### HYDROLOGY

HIDROLOGI								
Wetland Hydrology Indicators:								
Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (two or more required)								
<u>X</u> Surface Water (A1)	Salt Crust (B11)		Water Marks (B1) (Riverine)					
High Water Table (A2)	Biotic Crust (B12)		Sediment Deposits (B2) (Riverine)					
<u>X</u> Saturation (A3)	Aquatic Invertebrates (B13)		Drift Deposits (B3) ( <b>Riverine</b> )					
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)		<u>X</u> Drainage Patterns (B10)					
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living	g Roots (C3)	Dry-Season Water Table (C2)					
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)		Crayfish Burrows (C8)					
Surface Soil Cracks (B6)	Recent Iron Reduction in Tilled Soi	ls (C6)	Saturation Visible on Aerial Imagery (C9)					
Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)		Shallow Aquitard (D3)					
Water-Stained Leaves (B9)	Other (Explain in Remarks)	FAC-Neutral Test (D5)						
Field Observations:								
Surface Water Present? Yes 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? Yes						
Describe Recorded Data (stream gauge, monito	oring well, aerial photos, previous inspec	ctions), if availa	able:					
Remarks: Surface water present after recent ra	inc							
Remarks. Surface water present after recent ra								

Project/Site: Village at Loomis	City/County: Loomis/Placer	Sampling Da	ate: <u>03/30/2014</u>					
Applicant/Owner: <u>The True Life Companies</u>	State: <u>CA</u>	Sampling Po	bint: <u>16</u>					
Investigator(s): <u>Jeff Glazner</u> Section, Township, Range: <u>S10, T11N, R7E</u>								
Landform (hillslope, terrace, etc.): <u>Drainageway</u> Local relief (concave, convex, none): <u>concave</u> Slope (%): <u>1</u>								
Subregion (LRR): Mediterranean California (LRR	<u>C)</u> Lat: <u>38.82082290</u>	Long: <u>-121.18789350</u>	Datum: <u>WGS84</u>					
Soil Map Unit Name: <u>Andregg coarse sandy loam, 2 to 9 percent slopes</u> 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 Hydrologysignificantly 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?	Yes						
Hydric Soil Present?	<u>Yes</u>						
Wetland Hydrology Present? Yes							
		Is the Sampled Area within a Wetland? Yes					
Remarks: This location is best described as a marsh althogut 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.**

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 0)	% Cover	Species?	Status	Number of Dominant Species
1.				That Are OBL, FACW, or FAC: <u>2(</u> A)
2.				
3.				Total Number of Dominant
4				Species Across All Strata: 2 (B)
Total Cover = 0				
				Percent of Dominant Species
<u>Sapling/Shrub Stratum</u> (Plot size: 0)				That Are ORL EACIM, or EAC: $100 (A/P)$
1.				$\frac{100}{100} (A/B)$
2.				Prevalence Index worksheet
3.				Trevalence mack worksheet
4.				Total % Cover of: Multiply by:
5.				$\frac{10 \text{ cover or.}}{20} = \frac{10 \text{ cover or.}}{20} = \frac{10 \text{ cover or.}}{20} = \frac{10 \text{ cover or.}}{20}$
Total Cover = 0				$\frac{1}{10} \text{ Secles } \frac{1}{10} \text{ secles } \frac{1}{10$
Herb Stratum (Plot size: 0)				FACtive species $\underline{0}$ $x_2 = \underline{0}$
1. Typha latifolia	30	Yes	OBI	FAC species $\underline{0}$ $\times 3 = \underline{0}$
2 Leersia orvzoides	40	Ves	OBL	FACU species $\underline{0}$ x 4 = $\underline{0}$
2	<u>+0</u>	<u>105</u>		UPL species $\underline{0}$ x 5 = $\underline{0}$
5.				Column Totals: <u>70</u> (A) <u>70</u> (B)
4. F				
5. C				Prevalence Index = $B/A = 1.00$
b.				
7.				
8.				
Total Cover = <u>70</u>				
<u>Woody Vine Stratum</u> (Plot size: 0)				Hydrophytic Vegetation Indicators:
1.				X Dominance Test is >50%
2.				<u>X</u> Prevalence Index is $\leq 3.0^{1}$
Total Cover = <u>0</u>				Morphological Adaptations <sup>1</sup> (Provide
				supporting data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
% Bare Ground in Herb Stratum: 10				
% Cover of Biotic Crust: 15				<sup>1</sup> Indicators of hydric soil and wetland hydrology
				must be present unless disturbed or problematic
				Hydrophytic Vegetation Present? Yes
Remarks: Typha/Leersia marsh within stream complex				

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

Matrix				Redox Features						
Depth	Color (moist)	%	Color (mois	t) %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
(inches)										
<u>8</u>	<u>10YR 4/1</u>	<u>95</u>	<u>7.5YR 4/6</u>	<u>5</u>	<u>C</u>	M	Sandy Clay Loam			
<sup>1</sup> Type: C=	Concentration, D	=Depletion	, RM=Reduce	d Matrix, CS=	Covered o	or Coated	Sand Grains. <sup>2</sup> Loca	ation: PL=Pore Lining, M=Matrix		
Hydric So	il Indicators: (Ap	plicable to	all LRRs, unle	ss otherwise	noted.)			Indicators for Problematic Hydric Soils <sup>3</sup> :		
Histo	sol (A1)			Sandy F	Redox (S5)			1 cm Muck (A9) ( <b>LRR C</b> )		
Histic	: Epipedon (A2)			Stripped	d Matrix (S	6)		2 cm Muck (A10) ( <b>LRR B</b> )		
Black	Histic (A3)			Loamy I	Mucky Mir	neral (F1)		Reduced Vertic (F18)		
Hydro	ogen Sulfide (A4)			Loamy (	Gleyed Ma	trix (F2)		Red Parent Material (TF2)		
Strati	fied Layers (A5) ( <b>I</b>	.RR C)		X Deplete	d Matrix (F	-3)		Other (Explain in Remarks)		
1 cm	Muck (A9) ( <b>LRR D</b>	)		Redox D	oark Surfac	ce (F6)				
Deple	ted Below Dark S	urface (A11	.)	Deplete	d Dark Su	rface (F7)				
Thick	Dark Surface (A12	2)		Redox D	Depression	s (F8)		<sup>3</sup> Indicators of hydrophytic vegetation and		
Sandy	v Mucky Mineral (	S1)		Vernal F	Pools (F9)			wetland hydrology must be present, unless		
Sandy	dieyed Matrix (S	54)						disturbed or problematic.		
Restrictiv	e Layer (if preser	nt):								
Type:										
Depth (inches): <u>0</u>								Hydric Soil Present? <u>Yes</u>		
Remarks:	Low gradient, soi	ls appear to	o be stable at	this location	(not depo	sitional)				

#### HYDROLOGY

Wetland Hydrology Indicators:								
Primary Indicators (minimum of one required;	Secondary Indicators (two or more required)							
<u>X</u> Surface Water (A1)	Salt Crust (B11)		Water Marks (B1) ( <b>Riverine</b> )					
High Water Table (A2)	Biotic Crust (B12)		Sediment Deposits (B2) (Riverine)					
Saturation (A3)	Aquatic Invertebrates (B13)		Drift Deposits (B3) ( <b>Riverine</b> )					
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)		Drainage Patterns (B10)					
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living	g Roots (C3)	Dry-Season Water Table (C2)					
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)		Crayfish Burrows (C8)					
Surface Soil Cracks (B6)	Recent Iron Reduction in Tilled Soi	ls (C6)	Saturation Visible on Aerial Imagery (C9)					
Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)		Shallow Aquitard (D3)					
Water-Stained Leaves (B9)	Other (Explain in Remarks)		FAC-Neutral Test (D5)					
Field Observations:			<u>.</u>					
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? Yes						
Describe Recorded Data (stream gauge, monito	oring well, aerial photos, previous inspec	ctions), if availa	able:					
Demontos Classemanias ha alessatas area of anima								
Remarks: Slow moving backwater area of prima	ary drainageway							

Project/Site: Village at Loomis	City/County: Loomis/Placer	Sampling Da	ite: <u>03/20/2014</u>					
Applicant/Owner: The True Life Companies	State: <u>CA</u>	Sampling Po	vint: <u>17</u>					
Investigator(s): Jeff Glazner Section, Tov	vnship, Range: <u>S10, T11N, R7</u>	<u> </u>						
Landform (hillslope, terrace, etc.): <u>Hillslope</u> Local relief (concave, convex, none): <u>concave</u> Slope (%): <u>0</u>								
Subregion (LRR): Mediterranean California (LRR	<u>C)</u> Lat: <u>38.81878310</u>	Long: <u>-121.18936690</u>	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 Hydrologysignificantly disturbed? Are "Normal Circumstances" present? Yes								
Are Vegetation, Soil, or Hydrologynaturally 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		
Hydric Soil Present?	<u>No</u>		
Wetland Hydrology Present? <u>No</u>			
		Is the Sampled Area within a Wetland?	<u>No</u>
Remarks: Suspect local depressiona	l area supporting hydrophytic vegetation		

#### **VEGETATION – Use scientific names of plants.**

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>0</u> )	% Cover	Species?	Status	Number of Dominant Species
1.		-		That Are OBL, FACW, or FAC: 3(A)
2.				
3				Total Number of Dominant
л. Л				Species Across All Strata: 3 (B)
Total Cover = 0				$\frac{5}{2}$
10tal Cover – <u>0</u>				Demonst of Deminerat Creation
<u>Sapling/Shrub Stratum</u> (Plot size: <u>0</u> )				
1. <u>Salix exigua</u>	20	Yes	FACW	That Are OBL, FACW, or FAC: <u>100</u> (A/B)
2.				Drevelence Index worksheet
3.				Prevalence index worksneet
4.				
5				<u>Total % Cover of:</u> <u>Multiply by:</u>
Total Cover - 20				OBL species $\underline{0}$ x 1 = $\underline{0}$
Horb Stratum (Plot size: $0$ )				FACW species $\underline{20}$ x 2 = $\underline{40}$
<u>Lelium perenne</u>	40	Vac	FAC	FAC species $\underline{60}$ x 3 = $\underline{180}$
1. Lonum perenne	<u>40</u>	res	FAC	FACU species $5 \times 4 = 20$
2. Artemisia douglasiana	20	Yes	FAC	UPL species $\underline{0}$ x 5 = $\underline{0}$
3. <u>Galium aparine</u>	<u>5</u>	<u>No</u>	FACU	Column Totals: <u>85</u> (A) <u>240</u> (B)
4.				
5.				Prevalence Index = $B/A = 2.82$
6.				
7.				
8.				
Total Cover = 65				
Woody Vine Stratum (Plot size: 0 )				Hydrophytic Vegetation Indicators:
1				X Dominance Test is $>50\%$
2				X Prevalence Index is $\leq 3.0^{1}$
Total Cover - 0				Morphological Adaptations <sup>1</sup> (Provide
				Worphological Adaptations (Frowde
				Supporting data in Kenarks of on a separate sheet)
				Problematic Hydrophytic Vegetation (Explain)
% Bare Ground in Herb Stratum: 5				1
% Cover of Biotic Crust: <u>0</u>				Indicators of hydric soil and wetland hydrology
				must be present, unless disturbed or problematic.
				Hydronhytic Vegetation Present? Ves
Remarks: Herbaceous and woody bydronbytes in this area	1	1		The ophytic vegetation resent: <u>res</u>
Themarks. The Dateous and woody hydrophytes in this area	1.			

Sampling Point <u>17</u>

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

	Mat	trix		<u>Redox Fe</u>	<u>atures</u>				
Depth	Color (moist)	%	Color (moist	t) %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks
(inches)									
10	10YR 4/2	100		0			Coarse Sandy Loa	m	sandy to greater than 16"
				_					
1 .							2		
<sup>+</sup> Type: C=	=Concentration, D	=Depletion	, RM=Reduced	d Matrix, CS=	Covered c	or Coated	Sand Grains. <sup>2</sup> Loca	ation: PL=	Pore Lining, M=Matrix
Hydric So	il Indicators: (Ap	plicable to	all LRRs, unles	s otherwise	noted.)			Indicat	ors for Problematic Hydric Soils <sup>3</sup> :
Histo	osol (A1)			Sandy Redox (S5)				1 cm Muck (A9) ( <b>LRR C</b> )	
Histic	c Epipedon (A2)			Stripped Matrix (S6)				2 cm Muck (A10) ( <b>LRR B</b> )	
Black	Histic (A3)			Loamy Mucky Mineral (F1)				Reduced Vertic (F18)	
Hydro	ogen Sulfide (A4)			Loamy Gleyed Matrix (F2)				Red Parent Material (TF2)	
, Strati	fied Lavers (A5) (	.RR C)		Depleted Matrix (F3)				Other (Explain in Remarks)	
1 cm	Muck (A9) (LRR D	)		Redox Dark Surface (F6)					
Deple	eted Below Dark S	, urface (A11	D I	Depleted Dark Surface (F7)					
Thick	Dark Surface (A1)	2)	-,	Redox Depressions (F8)				<sup>3</sup> Indicators of hydrophytic vegetation and	
Sandy	v Mucky Mineral (	-, \$1)		Vernal Pools (F9)				wetlan	d hydrology must be present unless
Sandy	Gloved Matrix (S	эт, :л)			0013 (1 5)			ed or problematic	
Sanuy		·+)						uistuit	
Type	e Layer (II preser	it):							
Denth (i	inches): 0							Hydric	Soil Present? No
Deptil (i	<u> </u>							nyane	
Kemarks:	Redox not pres	ent.							

#### HYDROLOGY

IIIDROLOGI							
Wetland Hydrology Indicators:							
Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (two or more required)							
Surface Water (A1)	Salt Crust (B11)		Water Marks (B1) (Riverine)				
High Water Table (A2)	Biotic Crust (B12)		Sediment Deposits (B2) (Riverine)				
Saturation (A3)	Aquatic Invertebrates (B13)		Drift Deposits (B3) ( <b>Riverine</b> )				
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)		Drainage Patterns (B10)				
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living	g Roots (C3)	Dry-Season Water Table (C2)				
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)		Crayfish Burrows (C8)				
Surface Soil Cracks (B6)	Recent Iron Reduction in Tilled Soi	ls (C6)	Saturation Visible on Aerial Imagery (C9)				
Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)		Shallow Aquitard (D3)				
Water-Stained Leaves (B9)	Other (Explain in Remarks)		FAC-Neutral Test (D5)				
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, monito	oring well, aerial photos, previous inspec	ctions), if availa	able: lacks evidence of prologed saturation				
Remarks: Area lacks evidence of prolonged sa	aturation. Very localized depressional a	ea.					

Project/Site: Village at Loomis	City/County: Loomis/Placer	Sampling Date:	: <u>03/28/2014</u>
Applicant/Owner: The True Life Companies	State: <u>CA</u>	Sampling Point	:: <u>18</u>
Investigator(s): Jeff Glazner Section, Tov	vnship, Range: <u>S10, T11N, R7</u>	<u>E</u>	
Landform (hillslope, terrace, etc.): Drainageway	Local relief (concave, con	ivex, none): <u>concave</u> Slo	ope (%): <u>2</u>
Subregion (LRR): Mediterranean California (LRR	<u>C)</u> Lat: <u>38.82363210</u>	Long: <u>-121.18174810</u>	Datum: WGS84
Soil Map Unit Name: Andregg coarse sandy loan	m, 2 to 9 percent slopes	NWI classification:	
Are climatic/hydrologic conditions on the site ty	pical for this time of year? Ye	es (if no, explain i	n Remarks.)
Are Vegetation, Soil, or Hydrology sign	nificantly disturbed?	Are "Normal Circumstan	ces" present? <u>Yes</u>
Are Vegetation, Soil, or Hydrology nat	urally problematic?	(if needed, explain any a	nswers in Remarks.)

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

Hydrophytic Vegetation Present? Hydric Soil Present?	<u>No</u> No		
Wetland Hydrology Present? <u>No</u>	_	Is the Sampled Area within a Wetland?	<u>No</u>
Remarks: Upland comparison ti 19. J	ust upslope in the swale.		

## **VEGETATION – Use scientific names of plants.**

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>0</u> )	% Cover	Species?	Status	Number of Dominant Species
1.				That Are OBL, FACW, or FAC: <u>0(</u> A)
2.				
3.				Total Number of Dominant
4.				Species Across All Strata: 4 (B)
Total Cover = <u>0</u>				
Sapling/Shrub Stratum (Plot size: 0)				Percent of Dominant Species
1.				That Are OBL, FACW, or FAC: $\underline{0}$ (A/B)
2.				Describer and the description best
3.				Prevalence index worksneet
τ. Ε				Total % Cover of: Multiply by:
J. Total Cover = 0				OBL species $\underline{0}$ x 1 = $\underline{0}$
$\frac{10(a) \text{ Cover} - \underline{0}}{10(a) \text{ Cover} - \underline{0}}$				FACW species $\underline{0}$ x 2 = $\underline{0}$
<u>Herb Stratum</u> (Plot Size: <u>0</u> )	20	Vee	FACU	FAC species $\underline{0}$ x 3 = $\underline{0}$
1. Gaium aparine	20	res	FACU	FACU species $\underline{20}$ x 4 = $\underline{80}$
2. Bromus diandrus	30	Yes	UPL	UPL species $\underline{0}$ x 5 = $\underline{0}$
3. <u>Carduus pycnocephalus</u>	<u>25</u>	<u>Yes</u>	UPL	Column Totals: <u>20</u> (A) <u>80</u> (B)
4. <u>Montia perfoliata</u>	<u>20</u>	Yes	UPL	
5.				Prevalence Index = $B/A = 4.00$
6.				· <u> </u>
7.				
8.				
Total Cover = <u>95</u>				
Woody Vine Stratum (Plot size: 0)				Hydrophytic Vegetation Indicators:
1.				Dominance Test is >50%
2.				Prevalence Index is $< 3.0^{1}$
Total Cover = 0				Morphological Adaptations <sup>1</sup> (Provide
				supporting data in Remarks or on a separate sheet)
				Droblematic Hydronbytic Vegetation <sup>1</sup> (Evplain)
% Para Cround in Harb Stratum, 0				
% Date Ground III Herb Straturit. U				<sup>1</sup> Indiantons of budgie online durational budgets is a
% Cover of Biotic Crust: <u>0</u>				indicators of hydric soil and wetland hydrology
				must be present, unless disturbed or problematic.
				Hydrophytic Vegetation Present? No
Remarks: Upland plants in swale similar to adjacent area	S.	•	•	· · · · · · · · · · · · · · · · · · ·

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

	Mat	trix		<u>Redox Fe</u>	<u>atures</u>				
Depth	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks
(inches)									
<u>8</u>	<u>10YR 3/2</u>	<u>100</u>		<u>0</u>			Coarse Sandy Loa	<u>m</u>	<u>no redox</u>
<sup>1</sup> Type: C=	Concentration, D	=Depletion	, RM=Reduced	Matrix, CS=	Covered c	or Coated	Sand Grains. <sup>2</sup> Loca	ation: PL=	Pore Lining, M=Matrix
Hydric So	il Indicators: (App	plicable to	all LRRs, unless	otherwise	noted.)			Indicat	ors for Problematic Hydric Soils <sup>3</sup> :
Histo	sol (A1)		_	Sandy F	Redox (S5)			1 c	m Muck (A9) ( <b>LRR C</b> )
Histic	: Epipedon (A2)		_	Stripped Matrix (S6)				2 cm Muck (A10) ( <b>LRR B</b> )	
Black	Histic (A3)		_	Loamy Mucky Mineral (F1)				Reduced Vertic (F18)	
Hydro	ogen Sulfide (A4)		_	Loamy Gleyed Matrix (F2)				Red Parent Material (TF2)	
Strati	fied Layers (A5) ( <b>L</b>	.RR C)	_	Deplete	d Matrix (	F3)		Other (Explain in Remarks)	
1 cm	Muck (A9) ( <b>LRR D</b>	)	_	Redox D	oark Surfac	ce (F6)			
Deple	ted Below Dark S	urface (A11	L) _	Depleted Dark Surface (F7)					
Thick	Dark Surface (A12	2)	_	Redox Depressions (F8)				<sup>3</sup> Indicators of hydrophytic vegetation and	
Sandy	v Mucky Mineral (	S1)	_	Vernal Pools (F9)				wetland hydrology must be present, unless	
Sandy	Gleyed Matrix (S	54)		distu				disturb	ed or problematic.
Restrictiv	e Layer (if presen	nt):							
Type:									
Depth (inches): <u>0</u>							Hydric	Soil Present? <u>No</u>	
Remarks:	Well drained coa	rse materia	il; no redox						

## HYDROLOGY

mbrotogi					
Wetland Hydrology Indicators:					
Primary Indicators (minimum of one required;	check all that apply)		Secondary Indicators (two or more required)		
Surface Water (A1)	Salt Crust (B11)		Water Marks (B1) (Riverine)		
High Water Table (A2)	Biotic Crust (B12)		Sediment Deposits (B2) (Riverine)		
Saturation (A3)	Aquatic Invertebrates (B13)		Drift Deposits (B3) ( <b>Riverine</b> )		
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)		Drainage Patterns (B10)		
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living	g Roots (C3)	Dry-Season Water Table (C2)		
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)		Crayfish Burrows (C8)		
Surface Soil Cracks (B6)	Recent Iron Reduction in Tilled Soi	ls (C6)	Saturation Visible on Aerial Imagery (C9)		
Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)		Shallow Aquitard (D3)		
Water-Stained Leaves (B9)	Other (Explain in Remarks)		FAC-Neutral Test (D5)		
Field Observations:			<u>.</u>		
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, monito	oring well, aerial photos, previous inspec	ctions), if availa	able:		
Pomarks: Slanad swale above depressional wet	land				
Remarks: Sloped swale above depressional wetland					

Project/Site: Village at Loomis	City/County: Loomis/Placer	Sampling Da	ite: <u>03/28/2014</u>
Applicant/Owner: <u>The True Life Companies</u>	State: <u>CA</u>	Sampling Po	vint: <u>19</u>
Investigator(s): Jeff Glazner Section, Tow	nship, Range: <u>S10, T11N, R7</u>	Ē	
Landform (hillslope, terrace, etc.): Drainageway	Local relief (concave, con	ivex, none): <u>concave</u>	Slope (%): <u>0</u>
Subregion (LRR): Mediterranean California (LRR	<u>C)</u> Lat: <u>38.82357890</u>	Long: <u>-121.18170870</u>	Datum: <u>WGS84</u>
Soil Map Unit Name: Andregg coarse sandy loar	n, 2 to 9 percent slopes	NWI classification:	
Are climatic/hydrologic conditions on the site ty	pical for this time of year? Ye	es(if no, explai	in in Remarks.)
Are Vegetation, Soil, or Hydrologysign	nificantly disturbed?	Are "Normal Circumst	ances" present? <u>Yes</u>
Are Vegetation, Soil, or Hydrology nat	urally problematic?	(if needed, explain an	y answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes		
Hydric Soil Present?	No		
Wetland Hydrology Present? Yes			
		Is the Sampled Area within a Wetland?	Yes
Remarks: Bermed swale depression			

## **VEGETATION – Use scientific names of plants.**

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size: <u>0</u> )	% Cover	Species?	Status	Number of Dominant Species	
1.				That Are OBL, FACW, or FAC: <u>1(</u> A)	
2.					
3.				Total Number of Dominant	
4.				Species Across All Strata: 1 (B)	
Total Cover = 0					
				Percent of Dominant Species	
Sapling/Shrub Stratum (Plot size: 0)				That Are OBL. FACW. or FAC: 100 (A/B)	
1.					
2.				Prevalence Index worksheet	
3.					
4.				Total % Cover of: Multiply by:	
5.				OBL species 10 $x = 10$	
Total Cover = <u>0</u>				FACW species $0 \times 2 = 0$	
Herb Stratum (Plot size: 0)				FAC species $0 \times 3 = 0$	
1. Callitriche heterophylla	<u>10</u>	Yes	OBL	FACIL species $0 \times 4 = 0$	
2.				$\frac{1}{1} \frac{1}{2} \frac{1}$	
3.				Column Totals: $10 (A)$ $10 (B)$	
4.				$\frac{10}{10}$	
5.				Provolonce Index - P/A = 1.00	
6.				Prevalence index – $B/A = 1.00$	
7.					
8					
Total Cover = 10					
Woody Vine Stratum (Plot size: $0$ )				Hydronbytic Vegetation Indicators:	
1				X Dominance Test is >50%	
1.				$\Lambda$ Dominance rest is >50%	
Z. Total Cover – 0				$\frac{\Lambda}{2}$ Prevalence index is $\leq 5.0$	
Total Cover = <u>0</u>				Worphological Adaptations (Provide	
				supporting data in Remarks or on a separate sneet)	
				Problematic Hydrophytic Vegetation <sup>®</sup> (Explain)	
% Bare Ground in Herb Stratum: <u>20</u>					
% Cover of Biotic Crust: <u>70</u>				<sup>1</sup> Indicators of hydric soil and wetland hydrology	
				must be present, unless disturbed or problematic.	
				Hydrophytic Vegetation Present? Yes	
Remarks: Depression dominated by an algal mat	1	I	I	<u></u>	

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

	Mat	trix		<u>Redox Fe</u>	<u>atures</u>				
Depth	Color (moist)	%	Color (moist	t) %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
(inches)									
<u>8</u>	<u>7.5YR 4/2</u>	<u>95</u>	<u>5YR 4/6</u>	<u>5</u>	<u>C</u>	M	<u>Clay</u>	Gooey soils	
<sup>1</sup> Type: C=	Concentration, D	=Depletion	, RM=Reduced	d Matrix, CS=	Covered o	or Coated	Sand Grains. <sup>2</sup> I	ocation: PL=Pore Lining, M=Matrix	
Hydric So	il Indicators: (Ap	olicable to	all LRRs. unles	s otherwise	noted.)			Indicators for Problematic Hydric Soils <sup>3</sup> :	
Histo			,	Sandy Reday (S5)				1 cm Muck (A9) ( <b>I RR C</b> )	
Histic	Fninedon (A2)			Stripped Matrix (S6)				2 cm Muck (A10) ( <b>I RB B</b> )	
Black	Histic ( $\Delta$ 3)			Loamy Mucky Mineral (E1)				Reduced Vertic (F18)	
Hydro	gen Sulfide (AA)			Loamy Gleved Matrix (F2)				Red Parent Material (TE2)	
Ityard	fied Lovers (A5) (I			X Depleted Matrix (F3)				Other (Explain in Remarks)	
		) )		Reday Dark Surface (E6)					
I UII	vtod Bolow Dark S	) urfaco (A11	IN IN	Depleted Dark Surface (F7)					
Deple	Dark Surface (A1		L)	Reday Depressions (F8)				<sup>3</sup> Indicators of hydrophytic vegetation and	
THICK	Muchu Mineral (	2) 61)		Vernal Bools (EQ)				indicators of hydrophytic vegetation and	
Sanuy	Cloud Matrix (	51) (4)						wetland hydrology must be present, unless	
Sanuy	Gleyeu Matrix (S	94) •••						disturbed of problematic.	
Type	e Layer (if preser	it):							
Denth (inches): 0								Hydric Soil Present? Yes	
Bomarke	Perrode Eletere berned by free entrode the								
Remarks:	Fiat area perme	eu by nwy;	SUIS dre Hille-	si airieu with	prominen	LIEUUX			

## HYDROLOGY

Wetland Hydrology Indicators:						
Primary Indicators (minimum of one required;	Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (two or more required)					
Surface Water (A1)	Salt Crust (B11)		Water Marks (B1) (Riverine)			
High Water Table (A2)	Biotic Crust (B12)		Sediment Deposits (B2) (Riverine)			
<u>X</u> Saturation (A3)	Aquatic Invertebrates (B13)		Drift Deposits (B3) ( <b>Riverine</b> )			
X Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)		Drainage Patterns (B10)			
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living	g Roots (C3)	Dry-Season Water Table (C2)			
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)		Crayfish Burrows (C8)			
Surface Soil Cracks (B6)	Recent Iron Reduction in Tilled Soi	ls (C6)	Saturation Visible on Aerial Imagery (C9)			
Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)		Shallow Aquitard (D3)			
Water-Stained Leaves (B9)	Other (Explain in Remarks)		FAC-Neutral Test (D5)			
Field Observations:			<u>.</u>			
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 Hyd	Irology Present? <u>Yes</u>			
Describe Recorded Data (stream gauge, monito	oring well, aerial photos, previous inspec	ctions), if availa	able: depression against freeway			
Pomarks: Evidence of prolonged saturation						
Remarks: Evidence of prolonged saturation.						

Project/Site: <u>Village at Loomis</u>	City/County: Loomis/Placer	Sampling Da	ate: <u>03/30/2014</u>
Applicant/Owner: <u>The True Life Companies</u>	State: <u>CA</u>	Sampling Po	oint: <u>20</u>
Investigator(s): Jeff Glazner Section, Tow	vnship, Range: <u>S10, T11N, R7E</u>	<u> </u>	
Landform (hillslope, terrace, etc.): Drainageway	Local relief (concave, con	vex, none): <u>concave</u>	Slope (%): <u>3</u>
Subregion (LRR): Mediterranean California (LRR	<u>C)</u> Lat: <u>38.82481520</u>	Long: <u>-121.18023420</u>	Datum: <u>WGS84</u>
Soil Map Unit Name: Andregg coarse sandy loar	m, 2 to 9 percent slopes	NWI classification:	
Are climatic/hydrologic conditions on the site ty	pical for this time of year? Ye	es (if no, explai	in in Remarks.)
Are Vegetation, Soil, or Hydrology sign	nificantly disturbed?	Are "Normal Circumst	ances" present? <u>Yes</u>
Are Vegetation, Soil, or Hydrology nat	urally problematic?	(if needed, explain and	y answers in Remarks.)

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

Hydrophytic Vegetation Present?			
Hydric Soil Present?	Mapped as a Drainage Ditch		
Wetland Hydrology Present?			
	Is the Sampled Area within a Wetland? Yes		
Remarks: This feature is a drainage ditch huilt to carry water from local watershed north of King Road through corner of property and through a culvert			

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	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 0)	% Cover	Species?	Status	Number of Dominant Species	
1.				That Are OBL, FACW, or FAC:	<u>0</u> (A)
2.					
3.				Total Number of Dominant	
4.				Species Across All Strata:	0 (B)
Total Cover = 0					<u> </u>
				Percent of Dominant Species	
<u>Sapling/Shrub Stratum</u> (Plot size: <u>0</u> )				That Are OBL_EACW, or EAC: 0 (A/B)	
1.				That Ale OBL, FACW, of FAC. $\underline{0}$ (A/B)	
2.				Prevalence Index worksheet	
3.					
4.				Total % Cover of: Mul	tinly by:
5.				OBL species 0 x1	= 0
Total Cover = <u>0</u>				EACW species $0 \times 2$	- <u>0</u> - 0
Herb Stratum (Plot size: 0)				EAC species $0$ x 2	- 0
1.				FACU species <u>0</u> X 3	- 0
2.				LIBL species <u>0</u> x 4	- 0
3.				Column Totals: $O(A)$	$= \underline{0}$
4.				Column lotais: $\underline{0}(A)$	<u>о</u> (в)
5					
6				Prevalence index = $B/A = 1.00$	
7					
8					
Total Cover - 0					
Woody Vine Stratym (Blot size: 0)				Hydrophytic Vogotation Indicator	···
					5.
1.				$\_$ Dominance rest is >50%	
Z.				<u>X</u> Prevalence index is $\leq 3.0$	Durantida
Total Cover = <u>0</u>				IVIORPHOLOGICAL Adaptations (	Provide
				supporting data in Remarks or on	a separate sneet)
				Problematic Hydrophytic Veg	etation <sup>+</sup> (Explain)
% Bare Ground in Herb Stratum: <u>0</u>				1	
% Cover of Biotic Crust: <u>0</u>				<sup>1</sup> Indicators of hydric soil and wetla	and hydrology
				must be present, unless disturbed	l or problematic.
				Hydrophytic Vegetation Present?	
Remarks: Blackberry in channel but otherwise unvogetat	ed		I		

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

	Mat	<u>trix</u>		<u>Redox Fe</u>	<u>atures</u>			
Depth (inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
<sup>1</sup> Type: C=	=Concentration, D	=Depletion	, RM=Reduced I	Matrix, CS=	Covered o	or Coated	Sand Grains. <sup>2</sup> Loc	ation: PL=Pore Lining, M=Matrix
Hydric So	oil Indicators: (Ap	plicable to a	all LRRs, unless	otherwise	noted.)			Indicators for Problematic Hydric Soils :
Histo	osol (A1)		-	Sandy F	Redox (S5)			1 cm Muck (A9) ( <b>LRR C</b> )
Histi	c Epipedon (A2)		-	Stripped Matrix (S6)				2 cm Muck (A10) ( <b>LRR B</b> )
Black Histic (A3)		-	Loamy Mucky Mineral (F1)				Reduced Vertic (F18)	
Hydro	Hydrogen Sulfide (A4)		-	Loamy Gleyed Matrix (F2)				Red Parent Material (TF2)
Stratified Layers (A5) (LRR C)		Depleted Matrix (F3)				Other (Explain in Remarks)		
1 cm	Muck (A9) (LRR D	)	-	Redox D	ark Surfac	ce (F6)		
Deple	eted Below Dark S	urface (A11	L) _	Deplete	d Dark Sur	rface (F7)		
Thick	Dark Surface (A12	2)	-	Redox D	epression	s (F8)		<sup>3</sup> Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)		Vernal Pools (F9)				wetland hydrology must be present, unless		
Sandy Gleyed Matrix (S4)				disturbed or problematic.				
Restrictiv	/e Layer (if preser	nt):						
Type:								
Depth (	inches): <u>U</u>							Hydric Soil Present?
Remarks:	Course surface	soils						

#### HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one required;	Secondary Indicators (two or more required)		
Surface Water (A1)Salt Crust (B11)			Water Marks (B1) ( <b>Riverine</b> )
High Water Table (A2)	Biotic Crust (B12)		Sediment Deposits (B2) (Riverine)
Saturation (A3)	Aquatic Invertebrates (B13)		Drift Deposits (B3) ( <b>Riverine</b> )
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)		<u>X</u> Drainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living	g Roots (C3)	Dry-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)		Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Surface Soil Cracks (B6)Recent Iron Reduction in Tilled Soils (C6)		Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	ial Imagery (B7) Thin Muck Surface (C7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Other (Explain in Remarks)		FAC-Neutral Test (D5)
Field Observations:			
Surface Water Present? <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:			
Demonstration also to 2 for after 2"	La et face dava		
Remarks: Flowing about 3cts atter 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	
Acmispon americanus	Spanish-clover	UPL	
Adiantum jordanii	California maiden hair	FAC	
Aesculus californica	California buckeye	UPL	
Aira caruonhullea	silver European hairgrass	FACU	
Alisma triviale	northern water plantain	OBL	
Ambrosia psilostachya	western ragweed	FACU	
Amsinckia menziesii	fiddelneck	UPL	
Anthriscus caucalis	bur-chervil	UPL	
Aristolochia californica	California pipevine	UPL	
Artemisia douolasiana	California mugwort	FAC	
Avena fatua	wild oat	UPL	
Baccharis pilularis	covote brush	UPL	
Barbarea orthoceras	American Wintercress	FACW	
Bidens frondosa	sticktight	FACW	
Briza minor	small quaking grass	FAC	
Brodiaea elegans subsn. elegans	harvest brodiaea	FACU	
Bromus diandrus	ripgut grass	UPL	
Bromus hordeaceus	soft chess	FACU	
Bromus madritensis	foxtail chess	UPL	
Calandrinia ciliata	red maids	FACU	
Callitriche heterophylla	water starwort	OBL	
Cardamine oligosperma	few-seed bitter cress	FAC	
Carduus pycnocephalus	Italian thistle	UPL	
Carex praegracilis	clustered field-sedge	FACW	
Ceanothus cuneatus	buckbrush	UPL	
Cedrus deodara	Deodar dedar	UPL	
Centaurea solstitialis	vellow starthistle	UPL	
Chondrilla juncea	skeleton weed	UPL	
Cirsium vulgare	bull thistle	FACU	
Claytonia perfoliata	miner's lettuce	FAC	
Convolvulus arvensis	bindweed	UPL	
Croton setigerus	turkey mullein	UPL	
Cunodon dactulon	bermudagrass	FACU	
Cunosurus echinatus	hedgehog dogtail	UPL	
Cyperus eragrostis	tall flatsedge	FACW	
Cytisus scoparius	Scotch broom	UPL	
Daucus carota	Oueen Anne's lace	UPL	
Dichelostemma capitatum	~ blue dicks	FACU	
Echinochloa crus-galli	barnyard grass	FACW	
Eleocharis macrostachya	creeping spikerush	UPL	
Eleocharis pachycarpa	black sand spikerush	OBL	
Elymus caput-medusae	medusahead	UPL	
Epilobium brachycarpum	summer cottonweed	UPL	
Epilobium ciliatum	hairy willow-herb	FACW	
, Epilobium densiflorum	dense-flower spike-primrose	FACW	
Equisetum arvense	horsetail	FAC	
Erigeron canadensis	horseweed	FACU	
Erodium botrys	broad-leaf filaree	FACU	
0			

Taxon	Common Name	Wetland Status	
Erodium cicutarium	red stemmed filaree	UPL	
Eschscholzia californica	California poppy	UPL	
Euthamia occidentalis	western goldenrod	FACW	
Festuca arundinacea	tall fescue	FACU	
Ficus carica	fig	FACU	
Foeniculum vulgare	sweet fennel	UPL	
Frangula californica subsp. tomentella	hoary coffeeberry	UPL	
Galium aparine	goose grass	FACU	
Geranium dissectum	cut-leaf geranium	UPL	
Geranium molle	dove's-foot geranium	UPL	
Hedera helix	English ivy	UPL	
Hirschfeldia incana	short-podded mustard	UPL	
Holcus lanatus	common velvet grass	FAC	
Hordeum marinum subsp. gussoneanum	Mediterranean barley	FAC	
Hordeum murinum subsp. Jenorinum	foxtail barley	FACU	
Hypericum perforatum	Klamathweed	FACU	
Hypochaeris olahra	smooth cat's-ear	UPL	
Iuolans hindsii	northern California black walnut	FAC	
Juncus hufonius	toad rush	FACW	
Juncus effusus	soft rush	FACW	
Juncus mexicanus	Mexican rush	FACW	
Juncus rinhioides	iris-leaf rush	OBL	
Lactuca serriola	prickly lettuce	FACU	
Leersia aruzaides	rice cutorass	OBI	
Leuriu orgzonics Leurius triticoides	creeping wildrye	FAC	
Liguitius inneonaes Liguitium janonicum	Iananese privet	FACU	
I olium neronne	Italian ryegrass	FAC	
I uninus hicolor	miniature lupine	LIPI	
I uthrum hussonifolia	hysson loosestrife	OBL	
Malus sn	apple tree	UPI	
Marah fahacea	California man-root	UPI	
Matricaria discoidea	ninapple weed	FACU	
Mentha nulegium	pennyroval	OBI	
Mimulus auttatus	common monkeyflower	OBL	
Morus alba	mulberry	FACU	
Muhlenhergia rigens	doorgrass	FAC	
Narcissus neeudonarcissus	daffodil	LIPI	
Nasturtium officinale	water cross	OBL	
Nemonhila menziesii	haby hlue eves	UPI	
Nerium oleander	oleander	UPI	
	olive	UPI	
Oralis nes_canrae	sources	UPL	
Daenalum dilatatum	Dallis grass	EAC	
Pasnalum distichum	knot grass	EACW	
Pontagramma triangularis suben triangularis	goldback forn	LIDI	
Periugrummu trunguuris suosp. trunguuris	common knotwood		
Dhalaris aquatica		FACI	
r numis uyuuncu Phorodendron serotinum	Callaly glass Pacific mistlatoo	ГАСU I IDI	
Diputolacea amaricana	Amorican paleauroad		
Dinus sahiniana	footbill pinc	ГАС	
ศากมร รับบาทแทน	roounn pine	UPL	

#### Taxon

Plagiobothrys nothofulvus Plantago lanceolata Poa annua Polygonum aviculare Polypogon monspeliensis Populus fremontii subsp. fremontii Prunus cerasifera Pseudognaphalium californicum Pyrus communis Quercus douglasii Quercus lobata Quercus wislizeni var. wislizeni Raphanus sativus Robinia pseudoacacia Rosa sp. Rubus armeniacus Rumex acetosella Rumex crispus Rumex pulcher Sagittaria latifolia Salix exigua Salix gooddingii Salix laevigata Salix lasiolepis Sambucus nigra subsp caerulea Sanicula bipinnatifida Scandix pecten-veneris Schoenoplectus acutus var. occidentalis Senecio vulgaris Silybum marianum Sonchus asper Stachys ajugoides var. ajugoides Stellaria media Torilis arvensis Toxicodendron diversilobum Triadica sebifera Trifolium dubium Trifolium glomeratum Trifolium hirtum Trifolium microcephalum Trifolium repens Trifolium subterraneum Triteleia hyacinthina Triteleia laxa Typha latifolia Verbascum blattaria Verbascum thapsus Vicia sativa Vicia villosa

#### **Common Name**

Wetland Status

rusty haired popcorn flower	FAC
English plantain	FAC
annual bluegrass	FACU
prostrate knotweed	FACW
annual beard grass	FACW
Fremont cottonwood	FAC
cherry plum	UPL
California everlasting	UPL
pear	UPL
blue oak	UPL
valley oak	FACU
interior live oak	UPL
wild radish	UPL
black locust	FACU
ornamental rose	UPL
Himalayan blackberry	FACU
sheep sorrel	FACU
curly dock	FAC
fiddle dock	FAC
broadleaf arrowhead	OBL
narrow-leaved willow	FACW
Goodding's black willow	FACW
red willow	FACW
arrovo willow	FACW
elderberry	FAC
purple sanicle	UPL
shepherd's needle	UPL
hard-stem tule	OBL
common groundsel	FACU
milk thistle	UPL
prickly sow-thistle	FAC
bugle hedge-nettle	OBL
common chickweed	FACU
field hedge-parsley	UPL
western poison-oak	UPL
Chinese tallowtree	FAC
little hop clover	UPL
clover	UPL
rose clover	UPL
small-headed clover	FAC
white clover	FACU
subterranean clover	UPL
wild hyacinth	FAC
Ithuriel's spear	UPL
cattail	OBL
moth mullein	UPL
woolly mullein	FACU
spring vetch	FACU
winter vetch	UPL
periwinkle	UPL

Vinca major

#### Taxon

Vitis californica Vulpia myuros Zeltnera muehlenbergii Common Name

Wetland Status

California wild grape	FACU
rattail fescue	FACU
June centaury	FAC