



REPLY TO  
ATTENTION OF

DEPARTMENT OF THE ARMY  
U.S. ARMY ENGINEER DISTRICT, SACRAMENTO  
CORPS OF ENGINEERS  
1326 J STREET  
SACRAMENTO, CALIFORNIA 95814-2922

June 29, 2005

Regulatory Branch (200300652)

Larry Kelley  
2210 Plaza Drive, Suite 300  
Rocklin, California 95765

Dear Mr. Kelley:

We are responding to your request for an approved jurisdictional determination for the Kelley Property site. This approximately 75-acre site is located on or near Unnamed Tributary in Section 28, Township 11 North, Range 7 East, MDB&M, Latitude 38° 46' 13.8", Longitude 121° 12' 24.4", Placer County, California.

Based on available information, we concur with the estimate of waters of the United States, as depicted on the May 29, 2003 Kelly Property Wetland Delineation drawing prepared by ECORP Consulting, Inc. Approximately 3.728 acres of waters of the United States, including wetlands, are present within the survey area. These waters are regulated under Section 404 of the Clean Water Act since the drainage on the project site is tributary to Miners Ravine. Miners Ravine is tributary to Dry Creek. Dry Creek is tributary to the Natomas East Main Drainage Canal. The Natomas East Main Drainage Canal is tributary to the Sacramento River. The Sacramento River is a navigable waterway of the United States.

This verification is valid for five years from the date of this letter, unless new information warrants revision of the determination before the expiration date. A *Notification of Administrative Appeal Options and Process and Request for Appeal* form is enclosed. If you wish to appeal this approved jurisdictional determination, please follow the procedures on the form. You should provide a copy of this letter and notice to all other affected parties, including any individual who has an identifiable and substantial legal interest in the property.

This determination has been conducted to identify the limits of Corps of Engineers' Clean Water Act jurisdiction for the particular site identified in this request. This determination may not be valid for the wetland conservation provisions of the Food Security Act of 1985. If you or your tenant are USDA program participants, or anticipate participation in USDA programs, you should request a certified wetland determination from the local office of the Natural Resources Conservation Service, prior to starting work.

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Please refer to identification number 200300652 in any correspondence concerning this project. If you have any questions, please contact Tom Cavanaugh at our Sacramento Valley Office, 1325 J Street, Room 1480, Sacramento, California 95814-2922, email *Thomas.J.Cavanaugh@usace.army.mil*, or telephone 916-557-5261. You may also use our website: *www.spk.usace.army.mil/regulatory.html*.

Sincerely,

**ORIGINAL SIGNED**

Tom Cavanaugh  
Chief, Sacramento Valley Office

Enclosure(s)

Copy furnished without enclosure(s):

George Day, Storm Water and Water Quality Certification Unit, Central Valley Regional  
Water Quality Control Board, 11020 Sun Center Drive #200, Rancho Cordova,  
California 95670-6114

U.S. Fish and Wildlife Service, Wetlands Branch, 2800 Cottage Way, Suite W2605,  
Sacramento, California 95825-3901

U.S. Fish and Wildlife Service, Endangered Species Division, 2800 Cottage Way, Suite  
W2605, Sacramento, California 95825-3901



April 15, 2005

Mr. Tom Cavanaugh  
USACOE, Sacramento District  
ATTN: Regulatory Branch  
1325 J Street  
Sacramento, CA 95814-2922

***RE: Kelley Property (Amazing Facts), Placer County, California – Revised Wetland Delineation***

Dear Mr. Cavanaugh:

Please find attached the revised wetland delineation for the 75-acre Kelley Property (*aka* Amazing Facts) in western Placer County, California. The revised wetland delineation (map dated: April 4, 2005) is the result of our field verification site meeting on January 24, 2005 attended by you, Mr. Jeff Glazner (North Fork Associates), Mr. Reg King (King Engineering), and myself.

In addition, we have provided additional three parameter data as requested by Ms. Erin Hess, of your office, in an e-mail sent to Mr. Glazner dated January 12, 2005. These data (numbered 101 through 120) were collected on March 14, 2005 and have been included in this submittal.

Three vernal pools were added based on conditions observed during the field walk. These and the previously mapped vernal pools in the northern portion of the site are connected to the ephemeral and intermittent drainages via upland swales. These swales are comprised of upland grasses and forbs and are inundated or saturated only for a short period of time during storm events. The upland swales do not exhibit an ordinary high water mark, as the outfall from the vernal pools is relatively minor, with respect to quantity and flow velocity.

Features that have been revised to reflect current field conditions include the pond (POND-1), ephemeral drainages (ED-1), seasonal wetland (SW-1), seasonal wetland swales (SWS-1 and SWS-2), seeps (S-1 and S-2), and vernal pools (VP-36, VP-37, and VP-38).

In summary, the revisions we discussed in the field and additional data collection have resulted in waters of the U.S. totaling 3.728 acres for the site. Wetlands include vernal pools (0.223 acre), seasonal wetland (0.445 acre), seep (0.852 acre), and seasonal wetland swale (0.445 acre). Other waters of the U.S. include ephemeral drainage (0.066 acre), intermittent drainage (0.320 acre), and stock pond (1.377 acres).

Please feel free to call me at (916) 782-9100 if you have any questions regarding this issue.

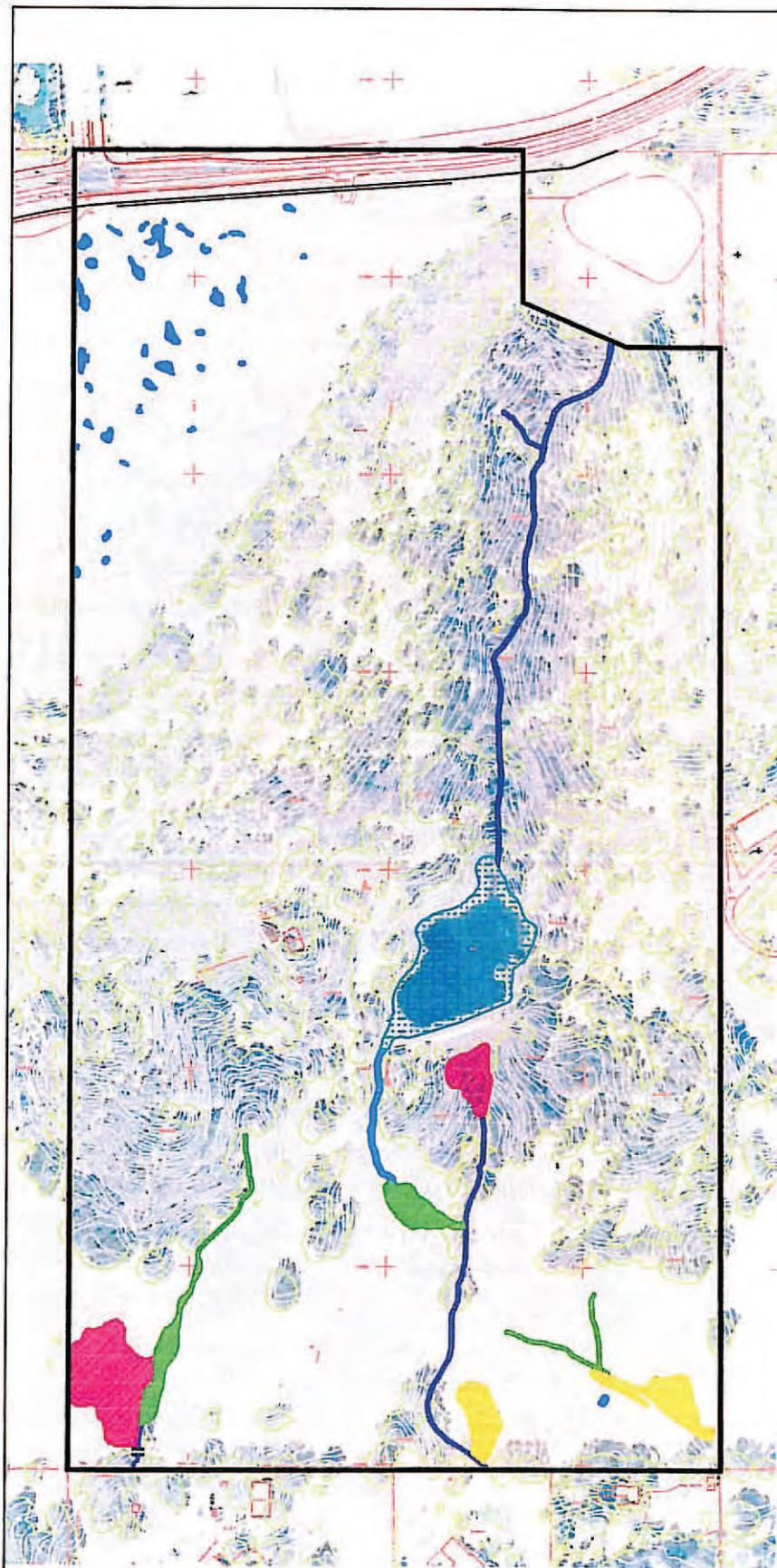
Sincerely,

A handwritten signature in black ink, appearing to read 'Keith Kwan', with a long horizontal stroke extending to the right.

Keith Kwan  
Biologist

Attachment(s)

cc: Mr. Jeff Glazner / North Fork Associates  
Mr. Reg King / King Engineering



**WATERS OF THE U.S. ACREAGE**

CLASSIFICATION	EXISTING ACREAGE
Wetlands:	
Vernal Pool	0.223
Seasonal Wetland	0.448
Seasonal Wetland Swale	0.448
Seep	0.852
Other Waters:	
Intermittent Drainage	0.320
Ephemeral Drainage	0.066
Pond	1.377
<b>TOTAL</b>	<b>3.728</b>



\\E60\anthony -dwgs\2003-062 Kelley Property\WD\kelley-wd4.dwg

4/4/05

**Wetland Delineation**

2003-062 Kelley Property

Project/Site: Kelley Property Date: 3/14/05 Sample Point: 101  
 Applicant/Owner: \_\_\_\_\_ Field Investigator(s): K. Kwan  
 County: Placer State: CA Plant Community: Oak woodland  
 Quad(s): Rocklin Section/Township/Range: T. 11N., R. 7E, sec 28

Do normal environmental conditions exist site? Yes  No  If no, explain: \_\_\_\_\_  
 typical Situation? Yes  No  Explain: \_\_\_\_\_  
 Is this a potential Problem Area? Yes  No  Explain: \_\_\_\_\_

**VEGETATION** **HYDROPHYTIC VEGETATION?** Yes  No

Dominant Species	Ind. Status	Stratum	Rel. % Cover		Dominant Species	Ind. Status	Stratum	Rel. % Cover
<u>Brom</u>	<u>FACU</u>	<u>herb</u>	<u>26</u>	5)	<u>Arc fat</u>	<u>N/L</u>	<u>herb</u>	<u>13</u>
<u>Ero hot</u>	<u>N/L</u>	<u>herb</u>	<u>17</u>	6)				
<u>Ger dia</u>	<u>N/L</u>	<u>herb</u>	<u>13</u>	7)				
<u>Tri hic</u>	<u>N/L</u>	<u>herb</u>	<u>13</u>	8)				

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 0/8 = 0 %  
 Comments: \_\_\_\_\_

**HYDROLOGY** **WETLAND HYDROLOGY?** Yes  No

Recorded Data: Yes  No  If yes, \_\_\_\_\_  
 Depth of surface water: \_\_\_\_\_ (in.) Depth to free water in pit: \_\_\_\_\_ (in.) Depth to saturated soil: \_\_\_\_\_ (in.)  
 Primary Indicators:  Inundated  Saturated in Upper 12 in.  Water Marks  Drift Lines  Sediment Deposits  Drainage Patterns in Wetland:  
 Secondary Indicators (2 or more required):  
 Oxidized Root Channels in Upper 12 in.  Water-stained Leaves  Local Soil Survey Data  FAC-Neutral Test  Other \_\_\_\_\_  
 Comments: no 1st or 2nd hydrologic indicators observed

**SOILS** **HYDRIC SOILS?** Yes  No

Series/Phase: 106 Andragg coarse sandy loam, 2 to 9% slopes Drainage Class: well drained  
 Subgroup: thermic Typic Haploxerolls Confirm Map Type: Yes  No   
 Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed/Low Chroma Colors  Concretion  
 High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Hydric Soils List  Other \_\_\_\_\_  
 Inclusions [Series/Phase]: \_\_\_\_\_ On Hydric Soils List: Yes  No   

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>10</u>		<u>7.5YR/1.3</u>	<u>-</u>		<u>loamy</u>

  
 Comments: high chroma

**CONCLUSION \*** **WETLAND / WATERS DETERMINATION?** Yes  No

Rationale: all criteria have not been met  
 General comments: \_\_\_\_\_  
 Wetland Type: \_\_\_\_\_



Project/Site: Kelley Project Date: 3/14/05 Sample Point: 102  
 Applicant/Owner: \_\_\_\_\_ Field Investigator(s): K. Kwan  
 County: Placer State: CA Plant Community: Oak Woodland  
 Quad(s): Rocklin, CA Section/Township/Range: T. 11 N. R. 7 E. Sec 28  
 Do normal environmental conditions exist site? Yes  No  If no, explain: \_\_\_\_\_  
 Typical Situation? Yes  No  Explain: \_\_\_\_\_  
 Is this a potential Problem Area? Yes  No  Explain: \_\_\_\_\_

**VEGETATION** **HYDROPHYTIC VEGETATION?** Yes  No

Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
<u>Brodia</u>	<u>N/L</u>	<u>herb</u>	<u>35</u>	5) <u>Lolium</u>	<u>FAC</u>	<u>herb</u>	<u>9</u>
<u>Brodia</u>	<u>FACU</u>	<u>herb</u>	<u>17</u>	6) _____	_____	_____	_____
<u>Med pol</u>	<u>N/L</u>	<u>herb</u>	<u>9</u>	7) _____	_____	_____	_____
<u>Hor mur</u>	<u>NI</u>	<u>herb</u>	<u>9</u>	8) _____	_____	_____	_____

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 1/5 = 20 %  
 Comments: \_\_\_\_\_

**HYDROLOGY** **WETLAND HYDROLOGY?** Yes  No

Recorded Data: Yes  No  If yes, \_\_\_\_\_  
 Depth of surface water: \_\_\_\_\_ (in.) Depth to free water in pit: \_\_\_\_\_ (in.) Depth to saturated soil: \_\_\_\_\_ (in.)  
 Primary Indicators:  Inundated  Saturated in Upper 12 in.  Water Marks  Drift Lines  Sediment Deposits  Drainage Patterns in Wetland:  
 Secondary Indicators (2 or more required):  
 Oxidized Root Channels in Upper 12 in.  Water-stained Leaves  Local Soil Survey Data  FAC-Neutral Test  Other \_\_\_\_\_  
 Comments: no 1<sup>st</sup> or 2<sup>nd</sup> hydrologic indicators observed

**SOILS** **HYDRIC SOILS?** Yes  No

Series/Phase: 106 Andregg coarse Sandy loam, 2 to 9 percent slopes Drainage Class: well  
 Nomenclature [Subgroup]: thermic Typic Haploxerolls Confirm Map Type: Yes  No   
 Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed/Low Chroma Colors  Concretions  
 High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Hydric Soils List  Other \_\_\_\_\_  
 Allusions [Series/Phase]: \_\_\_\_\_ On Hydric Soils List: Yes  No

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>10</u>	_____	<u>7.5YR4/3</u>	<u>-</u>	_____	<u>loamy</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Comments: high chroma

**WETLAND / WATERS DETERMINATION** **WETLAND / WATERS DETERMINATION?** Yes  No

Rationale: \_\_\_\_\_  
 General comments: \_\_\_\_\_  
 Wetland Type: \_\_\_\_\_



Project/Site: Kelley Property Date: 3/14/05 Sample Point: 103  
 Applicant/Owner: \_\_\_\_\_ Field Investigator(s): K. Kwar  
 County: Placer State: CA Plant Community: Oak woodland  
 Quad(s): Revelin, CA Section/Township/Range: T. 11N. R. 7E. Sec 28  
 Do normal environmental conditions exist site? Yes  No  If no, explain: \_\_\_\_\_  
 Atypical Situation? Yes  No  Explain: \_\_\_\_\_  
 Is this a potential Problem Area? Yes  No  Explain: \_\_\_\_\_

**VEGETATION**

**HYDROPHYTIC VEGETATION?** Yes  No

	Dominant Species	Ind. Status	Stratum	Rel. % Cover		Dominant Species	Ind. Status	Stratum	Rel. % Cover
1)	<u>Hor mur</u>	<u>N1</u>	<u>herb</u>	<u>37</u>	5)	_____	_____	_____	_____
2)	<u>Ula pen</u>	<u>FAC</u>	<u>herb</u>	<u>26</u>	6)	_____	_____	_____	_____
3)	_____	_____	_____	_____	7)	_____	_____	_____	_____
4)	_____	_____	_____	_____	8)	_____	_____	_____	_____

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 1/2 = 50 %

Comments: \_\_\_\_\_

**HYDROLOGY**

**WETLAND HYDROLOGY?** Yes  No

Recorded Data: Yes  No  If yes, \_\_\_\_\_

Depth of surface water: \_\_\_\_\_ (in.) Depth to free water in pit: \_\_\_\_\_ (in.) Depth to saturated soil: \_\_\_\_\_ (in.)

Primary Indicators:  Inundated  Saturated in Upper 12 in.  Water Marks  Drift Lines  Sediment Deposits  Drainage Patterns in Wetland:

Secondary Indicators (2 or more required):

Oxidized Root Channels in Upper 12 in.  Water-stained Leaves  Local Soil Survey Data  FAC-Neutral Test  Other \_\_\_\_\_

Comments: No 10-20 hydrologic indicators observed

**SOILS**

**HYDRIC SOILS?** Yes  No

Series/Phase: 106 Androgy coarse sandy loam, 2 to 9 percent slope Drainage Class: Well drained

Taxonomy [Subgroup]: thermic Typic Haploxerolls Confirm Map Type: Yes  No

Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed/Low Chroma Colors  Concretions

High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Hydric Soils List  Other \_\_\_\_\_

Inclusions [Series/Phase]: \_\_\_\_\_ On Hydric Soils List: Yes  No

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>10</u>	_____	<u>7.5YR+3</u>	<u>-</u>	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Comments: high chroma

**DECISION \***

**WETLAND / WATERS DETERMINATION?** Yes  No

Rationale: all criteria have not been met

General comments: \_\_\_\_\_

Wetland Type: \_\_\_\_\_



ENVIRONMENTAL CONSULTANTS

Project/Site: Kelley Property Date: 3/14/05 Sample Point: 104
Applicant/Owner: Field Investigator(s): K. Kwan
County: Placer State: CA Plant Community: oak Woodland
Quad(s): Rocklin, CA Section/Township/Range: T. 11 North, R. 7 East, Sec 28

Do normal environmental conditions exist site? Yes [X] No [ ] If no, explain:
Atypical Situation? Yes [ ] No [X] Explain:
Is this a potential Problem Area? Yes [ ] No [X] Explain:

VEGETATION HYDROPHYTIC VEGETATION? Yes [ ] No [X]

Table with 8 columns: Dominant Species, Ind. Status, Stratum, Rel. % Cover, Dominant Species, Ind. Status, Stratum, Rel. % Cover. Rows 1-4 contain handwritten entries like Brodia, Tri. lili, Rub. dis.

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 1/3 = 33 %
Comments:

HYDROLOGY WETLAND HYDROLOGY? Yes [ ] No [X]

Recorded Data: Yes [ ] No [X] If yes,
Depth of surface water: (in.) Depth to free water in pit: (in.) Depth to saturated soil: (in.)
Primary Indicators: [ ] Inundated [ ] Saturated in Upper 12 in. [ ] Water Marks [ ] Drift Lines [ ] Sediment Deposits [ ] Drainage Patterns in Wetland:
Secondary Indicators (2 or more required):
Oxidized Root Channels in Upper 12 in. [ ] Water-stained Leaves [ ] Local Soil Survey Data [ ] FAC-Neutral Test [ ] Other
Comments:

SOILS HYDRIC SOILS? Yes [ ] No [X]

Series/Phase: 106 Andragg coarse sandy loam, 2 to 9 percent slopes Drainage Class: well
Taxonomy [Subgroup]: thermic Typic Haploxerolls Confirm Map Type: Yes [ ] No [X]
Histosol [ ] Histic Epipedon [ ] Sulfidic Odor [ ] Aquic Moisture Regime [ ] Reducing Conditions [ ] Gleyed/Low Chroma Colors [ ] Concretions
High Organic Content in Surface Layer in Sandy Soils [ ] Organic Streaking in Sandy Soils [ ] Listed on Hydric Soils List [ ] Other
Inclusions [Series/Phase]: On Hydric Soils List: Yes [ ] No [ ]
Table with 6 columns: Depth (in.), Horizon, Matrix Color, Mottle Color, Mottle (Abund/Contrast/Size), Texture, Concretions, Structure. Row 1: 10, 7.5YR4/2

DECISION \* WETLAND / WATERS DETERMINATION? Yes [ ] No [X]

Rationale: all criteria have not been met
General comments:
Wetland Type:



Project/Site: Kelley Property Date: 3/14/05 Sample Point: 105  
 Applicant/Owner: \_\_\_\_\_ Field Investigator(s): K. Kwan  
 County: Placer State: CA Plant Community: Oak wood land  
 Quad(s): Rocklin, CA Section/Township/Range: T. 11N., R. 7E., sec 28  
 Do normal environmental conditions exist site? Yes  No  If no, explain: \_\_\_\_\_  
 Atypical Situation? Yes  No  Explain: \_\_\_\_\_  
 Is this a potential Problem Area? Yes  No  Explain: \_\_\_\_\_

**VEGETATION** **HYDROPHYTIC VEGETATION?** Yes  No

Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Ave sat</u>	<u>N/L</u>	<u>herb</u>	<u>40</u>	5) _____	_____	_____	_____
2) <u>Bro hor</u>	<u>FACU</u>	<u>herb</u>	<u>20</u>	6) _____	_____	_____	_____
3) _____	_____	_____	_____	7) _____	_____	_____	_____
4) _____	_____	_____	_____	8) _____	_____	_____	_____

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 0/2 = 0 %  
 Comments: \_\_\_\_\_

**HYDROLOGY** **WETLAND HYDROLOGY?** Yes  No

Recorded Data: Yes  No  If yes, \_\_\_\_\_  
 Depth of surface water: \_\_\_\_\_ (in.) Depth to free water in pit: \_\_\_\_\_ (in.) Depth to saturated soil: \_\_\_\_\_ (in.)  
**Primary Indicators:**  Inundated  Saturated in Upper 12 in.  Water Marks  Drift Lines  Sediment Deposits  Drainage Patterns in Wetland:  
**Secondary Indicators (2 or more required):**  
 Oxidized Root Channels in Upper 12 in.  Water-stained Leaves  Local Soil Survey Data  FAC-Neutral Test  Other \_\_\_\_\_  
 Comments: no 10 or 20 hydrologic indicators observed

**SOILS** **HYDRIC SOILS?** Yes  No

Series/Phase: 106 Androgg coarse sandy loam, 2 to 9% slopes Drainage Class: well drained  
 Taxonomy [Subgroup]: thermic Typic Haploxerolls Confirm Map Type: Yes  No   
 Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed/Low Chroma Colors  Concretions  
 High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Hydric Soils List  Other \_\_\_\_\_  
 Conclusions [Series/Phase]: \_\_\_\_\_ On Hydric Soils List: Yes  No

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>10</u>	_____	<u>7.5YR4/3</u>	_____	_____	<u>sandy loam</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Comments: \_\_\_\_\_

**PRECISION \*** **WETLAND / WATERS DETERMINATION?** Yes  No

Rationale: all criteria have not been met  
 General comments: \_\_\_\_\_  
 Wetland Type: \_\_\_\_\_



Project/Site: Kelley Prsp Date: 3/14/05 Sample Point: 106  
 Applicant/Owner: \_\_\_\_\_ Field Investigator(s): K. Kwan  
 County: Placer State: CA Plant Community: Annual Grass Land  
 Quad(s): Rocklin, CA Section/Township/Range: T. 11N., R. 7E., Sec 28

Do normal environmental conditions exist site? Yes  No  If no, explain: \_\_\_\_\_  
 Atypical Situation? Yes  No  Explain: \_\_\_\_\_  
 Is this a potential Problem Area? Yes  No  Explain: \_\_\_\_\_

**VEGETATION**

**HYDROPHYTIC VEGETATION?** Yes  No

Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Brodia</u>	<u>M/L</u>	<u>herb</u>	<u>38</u>	5) _____	_____	_____	_____
2) <u>Lolium</u>	<u>FAC</u>	<u>herb</u>	<u>38</u>	6) _____	_____	_____	_____
3) _____	_____	_____	_____	7) _____	_____	_____	_____
4) _____	_____	_____	_____	8) _____	_____	_____	_____

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 1/2 = 50 %

Comments: \_\_\_\_\_

**HYDROLOGY**

**WETLAND HYDROLOGY?** Yes  No

Recorded Data: Yes  No  If yes, \_\_\_\_\_  
 Depth of surface water: \_\_\_\_\_ (in.) Depth to free water in pit: \_\_\_\_\_ (in.) Depth to saturated soil: \_\_\_\_\_ (in.)

Primary Indicators:  Inundated  Saturated in Upper 12 in.  Water Marks  Drift Lines  Sediment Deposits  Drainage Patterns in Wetland:

Secondary Indicators (2 or more required):

Oxidized Root Channels in Upper 12 in.  Water-stained Leaves  Local Soil Survey Data  FAC-Neutral Test  Other \_\_\_\_\_

Comments: \_\_\_\_\_

**SOILS**

**HYDRIC SOILS?** Yes  No

Series/Phase: 106 Androgg coarse sandy loam, 2 to 9% slopes Drainage Class: well drained

Taxonomy [Subgroup]: thermic Typic Haplosolls Confirm Map Type: Yes  No

Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed/Low Chroma Colors  Concretions:

High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Hydric Soils List  Other \_\_\_\_\_

Inclusions [Series/Phase]: \_\_\_\_\_ On Hydric Soils List: Yes  No

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>10</u>	_____	<u>7.5YR4/3</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Comments: \_\_\_\_\_

**DECISION \***

**WETLAND / WATERS DETERMINATION?** Yes  No

Rationale: all criteria have not been met

General comments: \_\_\_\_\_

Wetland Type: \_\_\_\_\_



Project/Site: Kelley Property Date: 3/14/04 Sample Point: 107  
 Applicant/Owner: \_\_\_\_\_ Field Investigator(s): Arnold Grassland K. Kwan  
 County: Placer State: CA Plant Community: g  
 Quad(s): Rocklin, CA Section/Township/Range: T. 11 N., R. 7 E., sec 28  
 Do normal environmental conditions exist site? Yes  No  If no, explain: \_\_\_\_\_  
 Atypical Situation? Yes  No  Explain: \_\_\_\_\_  
 Is this a potential Problem Area? Yes  No  Explain: \_\_\_\_\_

**VEGETATION** **HYDROPHYTIC VEGETATION?** Yes  No

Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Lolium</u>	<u>Fac</u>	<u>herb</u>	<u>43</u>	5) _____	_____	_____	_____
2) <u>Brodia</u>	<u>N/C</u>	<u>herb</u>	<u>22</u>	6) _____	_____	_____	_____
3) _____	_____	_____	_____	7) _____	_____	_____	_____
4) _____	_____	_____	_____	8) _____	_____	_____	_____

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 1/2 = 50 %  
 Comments: \_\_\_\_\_

**HYDROLOGY** **WETLAND HYDROLOGY?** Yes  No

Recorded Data: Yes  No  If yes, \_\_\_\_\_  
 Depth of surface water: \_\_\_\_\_ (in.) Depth to free water in pit: \_\_\_\_\_ (in.) Depth to saturated soil: \_\_\_\_\_ (in.)  
 Primary Indicators:  Inundated  Saturated in Upper 12 in.  Water Marks  Drift Lines  Sediment Deposits  Drainage Patterns in Wetland:  
 Secondary Indicators (2 or more required):  
 Oxidized Root Channels in Upper 12 in.  Water-stained Leaves  Local Soil Survey Data  FAC-Neutral Test  Other \_\_\_\_\_  
 Comments: no 1" or 2" hydrologic indicators observed

**SOILS** **HYDRIC SOILS?** Yes  No

Series/Phase: 106 Andegs coarse sandy loam, 2 to 9% stones Drainage Class: well drained  
 Taxonomy [Subgroup]: thermic Typic Haploxerolls Confirm Map Type: Yes  No   
 Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed/Low Chroma Colors  Concretion:  
 High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Hydric Soils List  Other \_\_\_\_\_  
 Inclusions [Series/Phase]: \_\_\_\_\_ On Hydric Soils List: Yes  No   

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>10</u>	_____	<u>5YR 7/2</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

  
 Comments: \_\_\_\_\_

**DECISION \*** **WETLAND / WATERS DETERMINATION?** Yes  No

Rationale: all criteria have not been met  
 General comments: \_\_\_\_\_  
 Wetland Type: \_\_\_\_\_



Project/Site: Kelley Property Date: 3/14/04 Sample Point: 107  
 Applicant/Owner: \_\_\_\_\_ Field Investigator(s): Arnold Grossland K. Kwan  
 County: Placer State: CA Plant Community: 9  
 Quad(s): Rocklin, CA Section/Township/Range: T. 11 N., R. 7 E., sec 28

Do normal environmental conditions exist site? Yes  No  If no, explain: \_\_\_\_\_  
 Atypical Situation? Yes  No  Explain: \_\_\_\_\_  
 Is this a potential Problem Area? Yes  No  Explain: \_\_\_\_\_

**VEGETATION** **HYDROPHYTIC VEGETATION?** Yes  No

Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Lolium</u>	<u>FAC</u>	<u>herb</u>	<u>43</u>	5) _____	_____	_____	_____
2) <u>Brodia</u>	<u>N/C</u>	<u>herb</u>	<u>22</u>	6) _____	_____	_____	_____
3) _____	_____	_____	_____	7) _____	_____	_____	_____
4) _____	_____	_____	_____	8) _____	_____	_____	_____

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 1/2 = 50 %  
 Comments: \_\_\_\_\_

**HYDROLOGY** **WETLAND HYDROLOGY?** Yes  No

Recorded Data: Yes  No  If yes, \_\_\_\_\_  
 Depth of surface water: \_\_\_\_\_ (in.) Depth to free water in pit: \_\_\_\_\_ (in.) Depth to saturated soil: \_\_\_\_\_ (in.)  
 Primary Indicators:  Inundated  Saturated in Upper 12 in.  Water Marks  Drift Lines  Sediment Deposits  Drainage Patterns in Wetland:  
 Secondary Indicators (2 or more required):  
 Oxidized Root Channels in Upper 12 in.  Water-stained Leaves  Local Soil Survey Data  FAC-Neutral Test  Other \_\_\_\_\_  
 Comments: no 1° or 2° hydrologic indicators observed

**SOILS** **HYDRIC SOILS?** Yes  No

Series/Phase: 106 Andegs coarse sandy loam, 2 to 9% stones Drainage Class: well drained  
 Taxonomy [Subgroup]: thermic Typic Haploxerolls Confirm Map Type: Yes  No   
 Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed/Low Chroma Colors  Concretions  
 High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Hydric Soils List  Other \_\_\_\_\_  
 Inclusions [Series/Phase]: \_\_\_\_\_ On Hydric Soils List: Yes  No   

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>10</u>	_____	<u>5YR 7/2</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

  
 Comments: \_\_\_\_\_

**PRECISION \*** **WETLAND / WATERS DETERMINATION?** Yes  No

Rationale: all criteria have not been met  
 General comments: \_\_\_\_\_  
 Wetland Type: \_\_\_\_\_



Project/Site: Kelley Prop. Date: 3/14/05 Sample Point: 109  
 Applicant/Owner: \_\_\_\_\_ Field Investigator(s): K. Kwan  
 County: Placer State: CA Plant Community: Annual Grassland  
 Quad(s): Rocklin, CA Section/Township/Range: T11N. R. 7E. sec 28

Do normal environmental conditions exist site? Yes  No  If no, explain: \_\_\_\_\_  
 Atypical Situation? Yes  No  Explain: \_\_\_\_\_  
 Is this a potential Problem Area? Yes  No  Explain: \_\_\_\_\_

**GETATION** **HYDROPHYTIC VEGETATION? Yes  No**

Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Brodia</u>	<u>ML</u>	<u>herb</u>	<u>44</u>	5) _____	_____	_____	_____
2) <u>Cha Sua</u>	<u>FACU</u>	<u>herb</u>	<u>22</u>	6) _____	_____	_____	_____
3) _____	_____	_____	_____	7) _____	_____	_____	_____
4) _____	_____	_____	_____	8) _____	_____	_____	_____

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 0/2 = 0 %  
 Comments: \_\_\_\_\_

**HYDROLOGY** **WETLAND HYDROLOGY? Yes  No**

Recorded Data: Yes  No  If yes, \_\_\_\_\_  
 Depth of surface water: \_\_\_\_\_ (in.) Depth to free water in pit: \_\_\_\_\_ (in.) Depth to saturated soil: \_\_\_\_\_ (in.)  
 Primary Indicators:  Inundated  Saturated in Upper 12 in.  Water Marks  Drift Lines  Sediment Deposits  Drainage Patterns in Wetland:  
 Secondary Indicators (2 or more required):  
 Oxidized Root Channels in Upper 12 in.  Water-stained Leaves  Local Soil Survey Data  FAC-Neutral Test  Other \_\_\_\_\_  
 Comments: dirt road bed @ culvert

**SOILS** **HYDRIC SOILS? Yes  No**

Series/Phase: 106 Andreygy coarse sandy loam, 2-9% slopes Drainage Class: well drained  
 Taxonomy [Subgroup]: thermic Typic Hyploxerolls Confirm Map Type: Yes  No   
 Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed/Low Chroma Colors  Concretions  
 High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Hydric Soils List  Other \_\_\_\_\_  
 Inclusions [Series/Phase]: \_\_\_\_\_ On Hydric Soils List: Yes  No   

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure

**DECISION \*** **WETLAND / WATERS DETERMINATION? Yes  No**

Rationale: all criteria have not been met  
 General comments: \_\_\_\_\_  
 Wetland Type: \_\_\_\_\_



Project/Site: Kelley Property Date: 3/14/05 Sample Point: 1/10  
 Applicant/Owner: \_\_\_\_\_ Field Investigator(s): K. Kuzner  
 County: Placer State: CA Plant Community: Annual Grassland  
 Quad(s): Northin, CA Section/Township/Range: T. 11N. R. 7E. sec 28

Do normal environmental conditions exist site? Yes  No  If no, explain: \_\_\_\_\_  
 Atypical Situation? Yes  No  Explain: \_\_\_\_\_  
 Is this a potential Problem Area? Yes  No  Explain: seasonal saturation

**VEGETATION** **HYDROPHYTIC VEGETATION? Yes  No**

Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Lolium</u>	<u>Fac</u>	<u>herb</u>	<u>65</u>	5) _____	_____	_____	_____
2) _____	_____	_____	_____	6) _____	_____	_____	_____
3) _____	_____	_____	_____	7) _____	_____	_____	_____
4) _____	_____	_____	_____	8) _____	_____	_____	_____

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 1/1 = 100 %  
 Comments: \_\_\_\_\_

**HYDROLOGY** **WETLAND HYDROLOGY? Yes  No**

Recorded Data: Yes  No  If yes, \_\_\_\_\_  
 Depth of surface water: \_\_\_\_\_ (in.) Depth to free water in pit: \_\_\_\_\_ (in.) Depth to saturated soil: to surface (in.)  
 Primary Indicators:  Inundated  Saturated in Upper 12 in.  Water Marks  Drift Lines  Sediment Deposits  Drainage Patterns in Wetland:  
 Secondary Indicators (2 or more required):  
 Oxidized Root Channels in Upper 12 in.  Water-stained Leaves  Local Soil Survey Data  FAC-Neutral Test  Other \_\_\_\_\_  
 Comments: \_\_\_\_\_

**SOILS** **HYDRIC SOILS? Yes  No**

Series/Phase: 106 Andreyg worst Sandy loam, 2 to 9% slopes Drainage Class: well drained  
 Taxonomy [Subgroup]: thermic Typic Haploxerolls Confirm Map Type: Yes  No   
 Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed/Low Chroma Colors  Concretions  
 High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Hydric Soils List  Other \_\_\_\_\_  
 Inclusions [Series/Phase]: \_\_\_\_\_ On Hydric Soils List: Yes  No

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>12</u>	_____	<u>7.5YR 2.5/1</u>	_____	_____	<u>Sandy</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Comments: \_\_\_\_\_

**DETERMINATION** **WETLAND / WATERS DETERMINATION? Yes  No**

Rationale: all criteria have been met  
 General comments: \_\_\_\_\_  
 Wetland Type: seasonal wetland 5026



Project/Site: Kelley Property Date: 3/14/05 Sample Point: 11A1  
 Applicant/Owner: \_\_\_\_\_ Field Investigator(s): K. Kwan  
 County: Placer State: CA Plant Community: Annual Grassland  
 Quad(s): Rodeo, CA Section/Township/Range: T. 11N, R. 8E, sec 28

Do normal environmental conditions exist site? Yes  No  If no, explain: \_\_\_\_\_  
 Atypical Situation? Yes  No  Explain: \_\_\_\_\_  
 Is this a potential Problem Area? Yes  No  Explain: \_\_\_\_\_

**VEGETATION** **HYDROPHYTIC VEGETATION?** Yes  No

	Dominant Species	Ind. Status	Stratum	Rel. % Cover		Dominant Species	Ind. Status	Stratum	Rel. % Cover
1)	<u>Bro hor</u>	<u>FACU</u>	<u>herb</u>	<u>28</u>	5)	<u>Arc fat</u>	<u>N/L</u>	<u>herb</u>	<u>11</u>
2)	<u>Brodia</u>	<u>N/L</u>	<u>herb</u>	<u>17</u>	6)				
3)	<u>Stemed</u>	<u>FACU</u>	<u>herb</u>	<u>11</u>	7)				
4)	<u>Lol med</u>	<u>FAC</u>	<u>herb</u>	<u>11</u>	8)				

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 1/5 = 20 %  
 Comments: \_\_\_\_\_

**HYDROLOGY** **WETLAND HYDROLOGY?** Yes  No

Recorded Data: Yes  No  If yes, \_\_\_\_\_  
 Depth of surface water: \_\_\_\_\_ (in.) Depth to free water in pit: \_\_\_\_\_ (in.) Depth to saturated soil: \_\_\_\_\_ (in.)  
 Primary Indicators:  Inundated  Saturated in Upper 12 in.  Water Marks  Drift Lines  Sediment Deposits  Drainage Patterns in Wetland:  
 Secondary Indicators (2 or more required):  
 Oxidized Root Channels in Upper 12 in.  Water-stained Leaves  Local Soil Survey Data  FAC-Neutral Test  Other \_\_\_\_\_  
 Comments: no 1<sup>st</sup> or 2<sup>nd</sup> hydrologic indicators observed

**ILS** **HYDRIC SOILS?** Yes  No

Series/Phase: 106 Androgy coarse sandy loam, 2 to 9% slopes Drainage Class: well drained  
 Taxonomy [Subgroup]: thermic Typic Haploxerolls Confirm Map Type: Yes  No   
 Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed/Low Chroma Colors  Concretion  
 High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Hydric Soils List  Other \_\_\_\_\_  
 Inclusions [Series/Phase]: \_\_\_\_\_ On Hydric Soils List: Yes  No

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>10</u>		<u>7.5YR 5/2</u>			

Comments: \_\_\_\_\_

**DECISION \*** **WETLAND / WATERS DETERMINATION?** Yes  No

Rationale: all criteria have not been met  
 General comments: \_\_\_\_\_  
 Wetland Type: \_\_\_\_\_



Project/Site: Kolley Property Date: 3/14/05 Sample Point: 111  
 Applicant/Owner: \_\_\_\_\_ Field Investigator(s): K. Kwan  
 County: Placer State: CA Plant Community: Annual Grassland  
 Quad(s): Rocketin, CA Section/Township/Range: T.11N, R. 7.E. sec 28  
 Do normal environmental conditions exist site? Yes  No  If no, explain: \_\_\_\_\_  
 Atypical Situation? Yes  No  Explain: \_\_\_\_\_  
 Is this a potential Problem Area? Yes  No  Explain: \_\_\_\_\_

**VEGETATION**

**HYDROPHYTIC VEGETATION?** Yes  No

Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Brodiaea</u>	<u>FACW</u>	<u>herb</u>	<u>42</u>	5) _____	_____	_____	_____
2) <u>Aristida</u>	<u>N/L</u>	<u>herb</u>	<u>21</u>	6) _____	_____	_____	_____
3) _____	_____	_____	_____	7) _____	_____	_____	_____
4) _____	_____	_____	_____	8) _____	_____	_____	_____

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 0/2 = 0 %

Comments: \_\_\_\_\_

**HYDROLOGY**

**WETLAND HYDROLOGY?** Yes  No

Recorded Data: Yes  No  If yes, \_\_\_\_\_  
 Depth of surface water: \_\_\_\_\_ (in.) Depth to free water in pit: \_\_\_\_\_ (in.) Depth to saturated soil: \_\_\_\_\_ (in.)  
**Primary Indicators:**  Inundated  Saturated in Upper 12 in.  Water Marks  Drift Lines  Sediment Deposits  Drainage Patterns in Wetland:  
**Secondary Indicators (2 or more required):**  
 Oxidized Root Channels in Upper 12 in.  Water-stained Leaves  Local Soil Survey Data  FAC-Neutral Test  Other \_\_\_\_\_  
 Comments: no 1<sup>o</sup> or 2<sup>o</sup> hydrologic indicators observed

**SOILS**

**HYDRIC SOILS?** Yes  No

Series/Phase: 106 Andrygy coarse sandy loam, 2 to 9% slope Drainage Class: well drained  
 Taxonomy [Subgroup]: thermic Typic Haploxerolls Confirm Map Type: Yes  No   
 Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed/Low Chroma Colors  Concretions  
 High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Hydric Soils List  Other \_\_\_\_\_  
 Inclusions [Series/Phase]: \_\_\_\_\_ On Hydric Soils List: Yes  No

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>8</u>	_____	<u>7.5Y2/3</u>	<u>-</u>	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Comments: high chroma

**DECISION \***

**WETLAND / WATERS DETERMINATION?** Yes  No

Rationale: all criteria have not been met  
 General comments: \_\_\_\_\_  
 Wetland Type: \_\_\_\_\_



Project/Site: Kelley Property Date: 3/14/05 Sample Point: 112  
 Applicant/Owner: \_\_\_\_\_ Field Investigator(s): K. Kozar  
 County: Placer State: CA Plant Community: Annual Grassland  
 Quad(s): Rocklin, CA Section/Township/Range: T. 11 N., R. 7. E25, sec 28

Do normal environmental conditions exist site? Yes  No  If no, explain: \_\_\_\_\_  
 Atypical Situation? Yes  No  Explain: \_\_\_\_\_  
 Is this a potential Problem Area? Yes  No  Explain: \_\_\_\_\_

**VEGETATION** **HYDROPHYTIC VEGETATION?** Yes  No

Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Arctostaphylos</u>	<u>n/c</u>	<u>herb</u>	<u>50</u>	5) _____	_____	_____	_____
2) <u>Taraxacum</u>	<u>n/c</u>	<u>herb</u>	<u>20</u>	6) _____	_____	_____	_____
3) _____	_____	_____	_____	7) _____	_____	_____	_____
4) _____	_____	_____	_____	8) _____	_____	_____	_____

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 0/2 = 0 %  
 Comments: \_\_\_\_\_

**HYDROLOGY** **WETLAND HYDROLOGY?** Yes  No

Recorded Data: Yes  No  If yes, \_\_\_\_\_  
 Depth of surface water: \_\_\_\_\_ (in.) Depth to free water in pit: \_\_\_\_\_ (in.) Depth to saturated soil: \_\_\_\_\_ (in.)  
 Primary Indicators:  Inundated  Saturated in Upper 12 in.  Water Marks  Drift Lines  Sediment Deposits  Drainage Patterns in Wetland:  
 Secondary Indicators (2 or more required):  
 Oxidized Root Channels in Upper 12 in.  Water-stained Leaves  Local Soil Survey Data  FAC-Neutral Test  Other \_\_\_\_\_  
 Comments: \_\_\_\_\_

**SOILS** **HYDRIC SOILS?** Yes  No

Series/Phase: 106 Andryeg warse Sandy loam, 2 to 9 2 slvs Drainage Class: well drained  
 Taxonomy [Subgroup]: thermic Typic Haploxerolls Confirm Map Type: Yes  No   
 Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed/Low Chroma Colors  Concretions  
 High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Hydric Soils List  Other \_\_\_\_\_  
 Inclusions [Series/Phase]: \_\_\_\_\_ On Hydric Soils List: Yes  No   

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>10</u>	_____	<u>7.5YR+1/3</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

 Comments: \_\_\_\_\_

**PRECISION \*** **WETLAND / WATERS DETERMINATION?** Yes  No

Rationale: all criteria have not been met  
 General comments: \_\_\_\_\_  
 Wetland Type: \_\_\_\_\_



Project/Site: Kelley Property Date: 3/14/04 Sample Point: 113  
 Applicant/Owner: \_\_\_\_\_ Field Investigator(s): K. Livan  
 County: Placer State: CA Plant Community: Annual Grassland  
 Quad(s): Rocklin, CA Section/Township/Range: T11North, R. 7E2st, sec 28

Do normal environmental conditions exist site? Yes  No  If no, explain: \_\_\_\_\_  
 atypical situation? Yes  No  Explain: \_\_\_\_\_  
 Is this a potential Problem Area? Yes  No  Explain: \_\_\_\_\_

**VEGETATION** **HYDROPHYTIC VEGETATION?** Yes  No

Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Tar cup</u>	<u>ML</u>	<u>herb</u>	<u>42</u>	5) _____	_____	_____	_____
2) <u>Lolium</u>	<u>FAC</u>	<u>herb</u>	<u>21</u>	6) _____	_____	_____	_____
3) <u>Brodiaea</u>	<u>FAC</u>	<u>herb</u>	<u>21</u>	7) _____	_____	_____	_____
4) _____	_____	_____	_____	8) _____	_____	_____	_____

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 1/3 = 33 %  
 Comments: \_\_\_\_\_

**HYDROLOGY** **WETLAND HYDROLOGY?** Yes  No

Recorded Data: Yes  No  If yes, \_\_\_\_\_  
 Depth of surface water: \_\_\_\_\_ (in.) Depth to free water in pit: \_\_\_\_\_ (in.) Depth to saturated soil: \_\_\_\_\_ (in.)  
 Primary Indicators:  Inundated  Saturated in Upper 12 in.  Water Marks  Drift Lines  Sediment Deposits  Drainage Patterns in Wetland:  
 Secondary Indicators (2 or more required):  
 Oxidized Root Channels in Upper 12 in.  Water-stained Leaves  Local Soil Survey Data  FAC-Neutral Test  Other \_\_\_\_\_  
 Comments: \_\_\_\_\_

**SOILS** **HYDRIC SOILS?** Yes  No

Series/Phase: 106 Andregg coarse sandy loam, 2-9% slopes Drainage Class: well drained  
 Subgroup: thermic Typic Haploxerolls Confirm Map Type: Yes  No   
 Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed/Low Chroma Colors  Concretions  
 High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Hydric Soils List  Other \_\_\_\_\_  
 Soil Series/Phase: \_\_\_\_\_ On Hydric Soils List: Yes  No

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>7.5-11</u>	_____	<u>7.5YR+1.5</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Comments: \_\_\_\_\_

**WETLAND / WATERS DETERMINATION** **WETLAND / WATERS DETERMINATION?** Yes  No

Reason: all criteria have not been met  
 General comments: \_\_\_\_\_  
 Wetland Type: \_\_\_\_\_



Project/Site: Kalley Property Date: 3/14/05 Sample Point: 114  
 Applicant/Owner: \_\_\_\_\_ Field Investigator(s): K. Kwan  
 County: Placer State: CA Plant Community: Annual Grassland  
 Quad(s): Redelin, CA Section/Township/Range: T. 11 N., R. 7 E., S. 28

Do normal environmental conditions exist site? Yes  No  If no, explain: \_\_\_\_\_  
 Atypical Situation? Yes  No  Explain: \_\_\_\_\_  
 Is this a potential Problem Area? Yes  No  Explain: \_\_\_\_\_

**VEGETATION**

**HYDROPHYTIC VEGETATION?** Yes  No

Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Tad cup</u>	<u>M/L</u>	<u>herb</u>	<u>48</u>	5) _____	_____	_____	_____
2) <u>Brodiaea</u>	<u>FACW</u>	<u>herb</u>	<u>24</u>	6) _____	_____	_____	_____
3) _____	_____	_____	_____	7) _____	_____	_____	_____
4) _____	_____	_____	_____	8) _____	_____	_____	_____

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 0/2 = 0 %

Comments: \_\_\_\_\_

**HYDROLOGY**

**WETLAND HYDROLOGY?** Yes  No

Recorded Data: Yes  No  If yes, \_\_\_\_\_

Depth of surface water: \_\_\_\_\_ (in.) Depth to free water in pit: \_\_\_\_\_ (in.) Depth to saturated soil: \_\_\_\_\_ (in.)

Primary Indicators:  Inundated  Saturated in Upper 12 in.  Water Marks  Drift Lines  Sediment Deposits  Drainage Patterns in Wetland:

Secondary Indicators (2 or more required):

Oxidized Root Channels in Upper 12 in.  Water-stained Leaves  Local Soil Survey Data  FAC-Neutral Test  Other \_\_\_\_\_

Comments: \_\_\_\_\_

**SOILS**

**HYDRIC SOILS?** Yes  No

Series/Phase: 106 Andragg warse sandy loam, 2-9% slope Drainage Class: well drained

Taxonomy [Subgroup]: thermic Typic Haploxerolls Confirm Map Type: Yes  No

Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed/Low Chroma Colors  Concretion

High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Hydric Soils List  Other \_\_\_\_\_

Conclusions [Series/Phase]: \_\_\_\_\_ On Hydric Soils List: Yes  No

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>10</u>	_____	<u>10Y2+3</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Comments: \_\_\_\_\_

**DECISION \***

**WETLAND / WATERS DETERMINATION?** Yes  No

Rationale: all criteria have not been met

General comments: \_\_\_\_\_

Wetland Type: \_\_\_\_\_



Project/Site: Kelley Property Date: 3/14/05 Sample Point: 115  
 Applicant/Owner: \_\_\_\_\_ Field Investigator(s): K. Kuzm  
 County: Placer State: CA Plant Community: Annual Grassland  
 Quad(s): Rocklin, CA Section/Township/Range: T. 11N., R. 7. E., sec 28  
 Do normal environmental conditions exist site? Yes  No  If no, explain: \_\_\_\_\_  
 Atypical Situation? Yes  No  Explain: \_\_\_\_\_  
 Is this a potential Problem Area? Yes  No  Explain: \_\_\_\_\_

**VEGETATION**

**HYDROPHYTIC VEGETATION?** Yes  No

Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Brodia</u>	<u>N/L</u>	<u>herb</u>	<u>48</u>	5) _____	_____	_____	_____
2) <u>Lolium</u>	<u>Fac</u>	<u>herb</u>	<u>24</u>	6) _____	_____	_____	_____
3) _____	_____	_____	_____	7) _____	_____	_____	_____
4) _____	_____	_____	_____	8) _____	_____	_____	_____

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 1/2 = 50 %

Comments: \_\_\_\_\_

**HYDROLOGY**

**WETLAND HYDROLOGY?** Yes  No

Recorded Data: Yes  No  If yes, \_\_\_\_\_  
 Depth of surface water: \_\_\_\_\_ (in.) Depth to free water in pit: \_\_\_\_\_ (in.) Depth to saturated soil: \_\_\_\_\_ (in.)  
**Primary Indicators:**  Inundated  Saturated in Upper 12 in.  Water Marks  Drift Lines  Sediment Deposits  Drainage Patterns in Wetland:  
**Secondary Indicators (2 or more required):**  
 Oxidized Root Channels in Upper 12 in.  Water-stained Leaves  Local Soil Survey Data  FAC-Neutral Test  Other \_\_\_\_\_

Comments: \_\_\_\_\_

**SOILS**

**HYDRIC SOILS?** Yes  No

Series/Phase: 106 Andregg coarse sandy loam, 2 to 9% sbrs Drainage Class: well drained  
 Taxonomy [Subgroup]: thermic Typic Haploxerolls Confirm Map Type: Yes  No   
 Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed/Low Chroma Colors  Concretions  
 High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Hydric Soils List  Other \_\_\_\_\_  
 Inclusions [Series/Phase]: \_\_\_\_\_ On Hydric Soils List: Yes  No

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>10 to 4 1/2</u>	_____	<u>10YR 4/3</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Comments: \_\_\_\_\_

**DECISION \***

**WETLAND / WATERS DETERMINATION?** Yes  No

Rationale: all criteria have not been met

General comments: \_\_\_\_\_

Wetland Type: \_\_\_\_\_



Project/Site: Kelley Property Date: 3/14/05 Sample Point: 416  
 Applicant/Owner: \_\_\_\_\_ Field Investigator(s): K. Kwa  
 County: Placer State: CA Plant Community: Annual Grassland  
 Quad(s): Rodolin, CA Section/Township/Range: T. 11N, R. 7E, sec 28  
 Do normal environmental conditions exist site? Yes  No  If no, explain: \_\_\_\_\_  
 typical Situation? Yes  No  Explain: \_\_\_\_\_  
 Is this a potential Problem Area? Yes  No  Explain: \_\_\_\_\_

VEGETATION

DOMINANT SPECIES				HYDROPHYTIC VEGETATION? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Auref</u>	<u>n/c</u>	<u>herb</u>	<u>38</u>	5) _____	_____	_____	_____
2) <u>Brodia</u>	<u>n/c</u>	<u>herb</u>	<u>29</u>	6) _____	_____	_____	_____
3) _____	_____	_____	_____	7) _____	_____	_____	_____
4) _____	_____	_____	_____	8) _____	_____	_____	_____

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 0/2 = 0 %  
 Comments: \_\_\_\_\_

HYDROLOGY

Recorded Data: Yes  No  If yes, \_\_\_\_\_  
 WETLAND HYDROLOGY? Yes  No   
 Depth of surface water: \_\_\_\_\_ (in.) Depth to free water in pit: \_\_\_\_\_ (in.) Depth to saturated soil: \_\_\_\_\_ (in.)  
 Primary Indicators:  Inundated  Saturated in Upper 12 in.  Water Marks  Drift Lines  Sediment Deposits  Drainage Patterns in Wetland:  
 Secondary Indicators (2 or more required):  
 Oxidized Root Channels in Upper 12 in.  Water-stained Leaves  Local Soil Survey Data  FAC-Neutral Test  Other \_\_\_\_\_  
 Comments: \_\_\_\_\_

SOILS

Series/Phase: 106 Andregg, worse sandy loam, 2-9% slopes HYDRIC SOILS? Yes  No   
 Pedononomy [Subgroup]: thermic Typic Haploxerolls Drainage Class: well drained  
 Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed/Low Chroma Colors  Concretions  
 High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Hydric Soils List  Other \_\_\_\_\_  
 Confirm Map Type: Yes  No   
 On Hydric Soils List: Yes  No   
 Inclusions [Series/Phase]: \_\_\_\_\_  

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>8</u>	_____	<u>10YR4/3</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

 Comments: \_\_\_\_\_

CONCLUSION

Conclusion: all criteria have not been met WETLAND / WATERS DETERMINATION? Yes  No   
 Final comments: \_\_\_\_\_  
 Wetland Type: \_\_\_\_\_



Project/Site: Kelley Property Date: 3/14/05 Sample Point: 117  
 Applicant/Owner: \_\_\_\_\_ Field Investigator(s): L. Kwan  
 County: Placer State: CA Plant Community: Annual Grasses  
 Quad(s): Modelia Section/Township/Range: T. 11 North, R. 7 East, S. 28

Do normal environmental conditions exist site? Yes  No  If no, explain: \_\_\_\_\_  
 Atypical Situation? Yes  No  Explain: \_\_\_\_\_  
 Is this a potential Problem Area? Yes  No  Explain: \_\_\_\_\_

**VEGETATION**

**HYDROPHYTIC VEGETATION?** Yes  No

Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Tae cup</u>	<u>M/L</u>	<u>herb</u>	<u>50</u>	5) _____	_____	_____	_____
2) <u>Baker</u>	<u>FACU</u>	<u>herb</u>	<u>25</u>	6) _____	_____	_____	_____
3) _____	_____	_____	_____	7) _____	_____	_____	_____
4) _____	_____	_____	_____	8) _____	_____	_____	_____

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 0/L = 0 %

Comments: \_\_\_\_\_

**HYDROLOGY**

**WETLAND HYDROLOGY?** Yes  No

Recorded Data: Yes  No  If yes, \_\_\_\_\_  
 Depth of surface water: \_\_\_\_\_ (in.) Depth to free water in pit: \_\_\_\_\_ (in.) Depth to saturated soil: \_\_\_\_\_ (in.)

Primary Indicators:  Inundated  Saturated in Upper 12 in.  Water Marks  Drift Lines  Sediment Deposits  Drainage Patterns in Wetland:

Secondary Indicators (2 or more required):  
 Oxidized Root Channels in Upper 12 in.  Water-stained Leaves  Local Soil Survey Data  FAC-Neutral Test  Other \_\_\_\_\_

Comments: \_\_\_\_\_

**SOILS**

**HYDRIC SOILS?** Yes  No

Series/Phase: 106 Andregg coarse sandy loam, 2 to 9 1/2 layers Drainage Class: well drained

Taxonomy [Subgroup]: thermic Typic Haploxerolls Confirm Map Type: Yes  No

Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed/Low Chroma Colors  Concretions  
 High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Hydric Soils List  Other \_\_\_\_\_

Inclusions [Series/Phase]: \_\_\_\_\_ On Hydric Soils List: Yes  No

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>10</u>	_____	<u>7.5YR4/3</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Comments: \_\_\_\_\_

**DECISION \***

**WETLAND / WATERS DETERMINATION?** Yes  No

Rationale: all criteria have not been met

General comments: \_\_\_\_\_

Wetland Type: \_\_\_\_\_



Project/Site: Kelley Property Date: 3/14/05 Sample Point: 118  
 Applicant/Owner: \_\_\_\_\_ Field Investigator(s): K. Lwan  
 County: Placer State: CA Plant Community: Riparian  
 Quad(s): Northlin, CA Section/Township/Range: T. 11N. R. 7E. sec 28  
 Do normal environmental conditions exist site? Yes  No  If no, explain: \_\_\_\_\_  
 Atypical Situation? Yes  No  Explain: \_\_\_\_\_  
 Is this a potential Problem Area? Yes  No  Explain: \_\_\_\_\_

**VEGETATION** **HYDROPHYTIC VEGETATION?** Yes  No

Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Rubus</u>	<u>FACW</u>	<u>Shrub</u>	<u>100</u>	5) _____	_____	_____	_____
2) _____	_____	_____	_____	6) _____	_____	_____	_____
3) _____	_____	_____	_____	7) _____	_____	_____	_____
4) _____	_____	_____	_____	8) _____	_____	_____	_____

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 1/1 = 100 %  
 Comments: \_\_\_\_\_

**HYDROLOGY** **WETLAND HYDROLOGY?** Yes  No

Recorded Data: Yes  No  If yes, \_\_\_\_\_  
 Depth of surface water: \_\_\_\_\_ (in.) Depth to free water in pit: \_\_\_\_\_ (in.) Depth to saturated soil: \_\_\_\_\_ (in.)  
 Primary Indicators:  Inundated  Saturated in Upper 12 in.  Water Marks  Drift Lines  Sediment Deposits  Drainage Patterns in Wetland:  
 Secondary Indicators (2 or more required):  
 Oxidized Root Channels in Upper 12 in.  Water-stained Leaves  Local Soil Survey Data  FAC-Neutral Test  Other \_\_\_\_\_  
 Comments: area is above OHWM of stock pond

**SOILS** **HYDRIC SOILS?** Yes  No

Series/Phase: 106 Andregg coarse sandy loam, 2 to 90% slopes Drainage Class: well drained  
 Taxonomy [Subgroup]: thermic Typic Haploxerolls Confirm Map Type: Yes  No   
 Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed/Low Chroma Colors  Concretions  
 High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Hydric Soils List  Other \_\_\_\_\_  
 Conclusions [Series/Phase]: \_\_\_\_\_ On Hydric Soils List: Yes  No

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>8</u>	_____	<u>7.5YR4/3</u>	_____	_____	<u>Sandy loam</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Comments: \_\_\_\_\_

**DECISION \*** **WETLAND / WATERS DETERMINATION?** Yes  No

Rationale: all criteria have not been met  
 General comments: \_\_\_\_\_  
 Wetland Type: \_\_\_\_\_



Project/Site: Kelley Project Date: 3/14/05 Sample Point: 119  
Applicant/Owner: \_\_\_\_\_ Field Investigator(s): IC. Loran  
County: Placer State: CA Plant Community: Oak woodland  
Quad(s): Rocketin, CA Section/Township/Range: T. 11N. R. 7E sec 28

Do normal environmental conditions exist site? Yes  No  If no, explain: \_\_\_\_\_  
typical situation? Yes  No  Explain: \_\_\_\_\_  
Is this a potential Problem Area? Yes  No  Explain: \_\_\_\_\_

VEGETATION

DOMINANT SPECIES				HYDROPHYTIC VEGETATION? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Brodiaea</u>	<u>FACW</u>	<u>herb</u>	<u>23</u>	5) _____	_____	_____	_____
2) <u>Aristida</u>	<u>N/L</u>	<u>herb</u>	<u>18</u>	6) _____	_____	_____	_____
3) <u>Quercus</u>	<u>N/L</u>	<u>herb</u>	<u>18</u>	7) _____	_____	_____	_____
4) _____	_____	_____	_____	8) _____	_____	_____	_____

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 0/3 = 0 %

Comments: \_\_\_\_\_

HYDROLOGY

Recorded Data: Yes  No  If yes, \_\_\_\_\_  
WETLAND HYDROLOGY? Yes  No   
Depth of surface water: \_\_\_\_\_ (in.) Depth to free water in pit: \_\_\_\_\_ (in.) Depth to saturated soil: \_\_\_\_\_ (in.)  
Primary Indicators:  Inundated  Saturated in Upper 12 in.  Water Marks  Drift Lines  Sediment Deposits  Drainage Patterns in Wetland  
Secondary Indicators (2 or more required):  
 Oxidized Root Channels in Upper 12 in.  Water-stained Leaves  Local Soil Survey Data  FAC-Neutral Test  Other \_\_\_\_\_  
Comments: \_\_\_\_\_

Phase: 153 Inks wobbly loam, 30 to 50 percent slopes HYDRIC SOILS? Yes  No   
Soil Group (Subgroup): Aeric Lithic Argixerolls Drainage Class: well drained  
Soil Order: Ustochsol Confirm Map Type: Yes  No   
Soil Characteristics:  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed/Low Chroma Colors  Concretions  
Soil Series/Phase: \_\_\_\_\_ On Hydric Soils List: Yes  No   
Soil Profile Data:  
Horizon: \_\_\_\_\_ Matrix Color: 10YR 4/3 Mottle Color: \_\_\_\_\_ Mottle (Abund/Contrast/Size): \_\_\_\_\_ Texture, Concretions, Structure: \_\_\_\_\_  
Comments: \_\_\_\_\_

WETLAND / WATERS DETERMINATION? Yes  No   
all criteria have not been met.  
Comments: \_\_\_\_\_

Wetland Type: \_\_\_\_\_



Project/Site: Kelley Property Date: 3/14/04 Sample Point: 120  
 Applicant/Owner: \_\_\_\_\_ Field Investigator(s): K. Kwan  
 County: Placer State: CA Plant Community: Oak Woodland  
 Quad(s): Rocklin, A Section/Township/Range: T. 11 N. R. 7 E. Sec 28

Do normal environmental conditions exist site? Yes  No  If no, explain: \_\_\_\_\_  
 Atypical Situation? Yes  No  Explain: \_\_\_\_\_  
 Is this a potential Problem Area? Yes  No  Explain: \_\_\_\_\_

**VEGETATION** **HYDROPHYTIC VEGETATION?** Yes  No

Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Brodia</u>	<u>N/L</u>	<u>herb</u>	<u>35</u>	5) _____	_____	_____	_____
2) <u>Bro bar</u>	<u>FACU</u>	<u>herb</u>	<u>15</u>	6) _____	_____	_____	_____
3) <u>Hor mur</u>	<u>N1</u>	<u>herb</u>	<u>10</u>	7) _____	_____	_____	_____
4) <u>Quo dou</u>	<u>N/L</u>	<u>tree</u>	<u>10</u>	8) _____	_____	_____	_____

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 0/4 = 0 %  
 Comments: \_\_\_\_\_

**HYDROLOGY** **WETLAND HYDROLOGY?** Yes  No

Recorded Data: Yes  No  If yes, \_\_\_\_\_  
 Depth of surface water: \_\_\_\_\_ (in.) Depth to free water in pit: \_\_\_\_\_ (in.) Depth to saturated soil: \_\_\_\_\_ (in.)  
 Primary Indicators:  Inundated  Saturated in Upper 12 in.  Water Marks  Drift Lines  Sediment Deposits  Drainage Patterns in Wetland:  
 Secondary Indicators (2 or more required):  
 Oxidized Root Channels in Upper 12 in.  Water-stained Leaves  Local Soil Survey Data  FAC-Neutral Test  Other \_\_\_\_\_  
 Comments: \_\_\_\_\_

**SOILS** **HYDRIC SOILS?** Yes  No

Series/Phase: 106 Andregg coarse sandy loam, 2 to 9 3/8 sbr Drainage Class: well drained  
 Taxonomy [Subgroup]: thermic Typic Haploxerolls Confirm Map Type: Yes  No   
 Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed/Low Chroma Colors  Concretions  
 High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Hydric Soils List  Other \_\_\_\_\_  
 Inclusions [Series/Phase]: \_\_\_\_\_ On Hydric Soils List: Yes  No   

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>12</u>	_____	<u>7.5YR 4/3</u>	_____	_____	<u>loamy</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

  
 Comments: \_\_\_\_\_

**DECISION \*** **WETLAND / WATERS DETERMINATION?** Yes  No

Rationale: all criteria have not been met  
 General comments: \_\_\_\_\_  
 Wetland Type: \_\_\_\_\_





WETLAND ID		EXISTING ACREAGES		WETLAND ID		EXISTING ACREAGES		WETLAND ID		EXISTING ACREAGES		WETLAND ID		EXISTING ACREAGES	
VP-1	0.004	SW-1	0.198	SWS-1	0.216	S-1	0.195	ID-1	0.202	ED-1	0.066	POND-1	1.377		
VP-2	0.001	SW-2	0.246	SWS-2	0.178	S-2	0.657	ID-2	0.105						
VP-3	0.004	SW-3	0.001	SWS-3	0.051			ID-3	0.007						
VP-4	0.001							ID-4	0.002						
VP-5	0.004														
VP-6	0.005														
VP-7	0.001														
VP-8	0.024														
VP-9	0.003														
VP-10	0.003														
VP-11	0.003														
VP-12	0.012														
VP-13	0.007														
VP-14	0.013														
VP-15	0.003														
VP-16	0.004														
VP-17	0.008														
VP-18	0.014														
VP-19	0.003														
VP-20	0.003														
VP-21	0.001														
VP-22	0.009														
VP-23	0.002														
VP-24	0.002														
VP-25	0.002														
VP-26	0.007														
VP-27	0.013														
VP-28	0.004														
VP-29	0.002														
VP-30	0.002														
VP-31	0.003														
VP-32	0.015														
VP-33	0.013														
VP-34	0.009														
VP-35	0.006														
VP-36	0.004														
VP-37	0.003														
VP-38	0.006														
	0.223		0.445		0.445		0.852		0.320		0.066		1.377		

PARAMETER POINT	GPS COORDINATES
△ 1	38.77361186 / -121.209482332
△ 2N	38.77357053 / -121.209463923
△ 3	38.7741919 / -121.207449525
△ 4N	38.77137205 / -121.207390169
△ 5	38.76693751 / -121.210282564
△ 6N	38.76693601 / -121.210421466
△ 7	38.76806692 / -121.208396391
△ 8N	38.76848755 / -121.208458039
△ 9	38.76753060 / -121.206828955
△ 10N	38.76755176 / -121.206979251
△ 10IN	38.76958016 / -121.209524708
△ 102N	38.76943507 / -121.209421212
△ 103N	38.76909093 / -121.209366616
△ 104N	38.76866626 / -121.209248687
△ 105N	38.76815887 / -121.209579033
△ 106N	38.76765529 / -121.210133570
△ 107N	38.76759127 / -121.210436595
△ 108N	38.76774129 / -121.210374819
△ 109N	38.76689127 / -121.210021520
△ 110N	38.76830460 / -121.208160234
△ 110IN	38.76840781 / -121.208062342
△ 111N	38.76853746 / -121.208451362
△ 112N	38.76764556 / -121.206836316
△ 113N	38.76759639 / -121.207422933
△ 114N	38.76741073 / -121.207109949
△ 115N	38.76717205 / -121.206645451
△ 116N	38.76735099 / -121.206213633
△ 117N	38.76692744 / -121.207439414
△ 118N	38.76956768 / -121.208296449
△ 119N	38.77144367 / -121.207398150
△ 120N	38.77266416 / -121.207441270

WATERS OF THE U.S. ACREAGE CLASSIFICATION	
Wetland Pool	0.339
Seasonal Wetland	0.446
Seasonal Wetland Bed	0.445
Shrub	0.853
Open Water	0.900
Intermittent Drainage	0.066
Pond	1.377

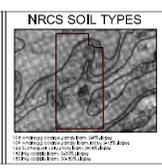
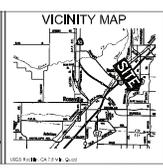
**NOTES**

△ 01 Three Parameter Sample Point Wetland

△ 02N Three Parameter Sample Point Wetland

Draw project map using 77  
 Contouring provided by Geomatics and Associates  
 Boundary data provided by Geomatics and Associates  
 Field verification was conducted on January 04, 2009

This project depicts information and data provided to which we warrant only the U.S. Army Corps of Engineers wetland delineation methods described in the 2001 Corps of Engineers Wetland Delineation Manual and conforms to specifications for the National Wetlands Inventory, however, wetland boundaries have not been legally surveyed and may be subject to minor adjustments if exact locations are required.



**KELLEY PROPERTY**  
WETLAND DELINEATION

DATE: 29 MAY 2009  
 DRAWN BY: JHON  
 CHECKED BY: JHON

REVISION: 4/4/08  
 SCALE: 1" = 100'  
 AREA: A1

PROJECT NO: 2008-042  
 SHEET NO: 1 OF 1

**ECORP Consulting, Inc.**  
ENVIRONMENTAL CONSULTANTS

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