

# PLANNING & BUILDING DEPARTMENT PLANNING DIVISION

https://www.eldoradocounty.ca.gov/Land-Use/Planning-Services

**PLACERVILLE OFFICE:** 

2850 Fairlane Court, Placerville, CA 95667 <u>BUILDING</u> (530) 621-5315 / (530) 622-1708 Fax <u>bldgdept@edcgov.us</u>

PLANNING

(530) 621-5355 / (530) 642-0508 Fax

planning@edcgov.us

**LAKE TAHOE OFFICE:** 

924 B Emerald Bay Rd South Lake Tahoe, CA 96150 (530) 573-3330 (530) 542-9082 Fax

TO: County of El Dorado Agricultural Commissioner/Commission

FROM: Bianca Dinkler, Senior Planner

DATE: October 30, 2024

RE: Request for Review - Conditional Use Permit CUP24-0011 (Kuhl)

Residence on Property Zoned Timber Production Zone (TPZ)
Assessor's Parcel Numbers (APNs) 011-030-055 and 011-030-058

#### Planning Request and Project Description:

The Planning Division is processing an application request for a Conditional Use Permit, CUP24-0011 (Kuhl) to allow a single-unit residence on property zoned Timber Production Zone (TPZ), and requests the project be scheduled for review and recommendation by the Agricultural Commissioner/Commission.

The subject parcels, APNs 011-030-055 (20.2-acres) and 011-030-058 (45.58-acres) (legal parcels, Admin by tax rate) totaling 65.78-acres, located on the south side of Wolf Creek Road, approximately five (5) miles east of the intersection with Ice House Road in the Pollock Pines area of El Dorado County, Supervisor District 4, zoned Timber Production Zone (TPZ), with a General Plan land use designation of Natural Resources (NR), and located within an Agricultural District.

Please see the included Attachments:

Application Packet, CUP24-0011 (Kuhl SFD on TPZ)

Union Valley Forest Management Plan

Zoning Ordinance 130.40.350 - Timber Production Zone: Criteria, Regulations, and Zone Change Requirements, (G.) Required Findings to Support Residential, Recreational and Other Non-Timber Uses: Certain uses within the TPZ may be compatible with growing and harvesting timber in certain circumstances and may be allowed by Conditional Use Permit. When approving a Conditional Use Permit, as allowed in Table 130.21.020 (Agriculture, Rural Lands and Resource Zone Districts Use Matrix) in <a href="Article 2">Article 2</a> (Zones, Allowed Uses, and Zoning Standards) of this Title, for compatible, non-timber related uses, the review authority shall consider the recommendations of the Ag Commission and shall make the following findings:

25-0907 B 1 of 167

- 1. The proposed use is compatible with and will not detract from the land's ability to produce timber;
- 2. Fire protection and public safety concerns have been adequately met, including the ability to provide adequate public access, emergency ingress and egress, and sufficient water supply and sewage disposal facilities;
- 3. The proposed use will not adversely impact the area's watershed, wildlife, and other natural resources.

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SEP - 9 2024

EL DORADO COUNTY



# COMMUNITY DEVELOPMENT SERVE CESPARTMENT PLANNING AND BUILDING DEPARTMENT

2850 Fairlane Court, Placerville, CA 95667
Phone: (530) 621-5355 www.edcgov.us/Planning/

APPLICATION FOI	R: CONDITION	AL/MINOR U	SE PERN	/IT FILE #(	CUP 24-0011
ASSESSOR'S PARCEL	NO.(s) 011-0	30-055 &011-030-0	58		
PROJECT NAME/REQ	UEST: (Describe propos	ed use) Kuhl Con	ditional Use	Permit to place	d residential house on
Timber Preserve Z	Zoned property.				
APPLICANT/AGENT	Nathaniel Willso	on			
Mailing Address	3080 Cedar Ravine,	Placerville, CA 956	67		
	P.O. Box or Street		City	4	State & Zip
Phone ( )	530-626-4300	EMAIL: _	nathanie	l@willson.legal	
PROPERTY OWNER _	Michael Kuhl				
Mailing Address	155 Ridgewood Dr.	, San Rafael, CA 94	1901		
Phone ( )	P.O. Box or Street 415-233-1230	EMAIL:	City mkuhl@	/ business-esoluti	State & Zip ons.com
ENGINEER/ARCHITEC	Nathan Wheel 5137 Golden Foothill	er			
Phone ( )	P.O. Box or Street 530-672-1600	EMAIL:	City	1	State & Zip
LOCATION: The prop	erty is located on the	South	_side of	Wolf Creek	Road
- The prop	erry is located on the	N/E/W/S	side of	stree	et or road
5 Miles feet/miles	East of t	he intersection with	Ice House	Road	
Dellask Di	N/E/W/				or street or road
n the Pollock Pi	nes	area, PRO	PERTY SIZE	65.78 Acr	
Mar C	ature of property owner	or authorized agent		Date SEPTEM August	(C) R acreage / square footage , 2024
, · • • • • • • • • • • • • • • • • • •	Property outles				
Date Sept 9, 20	24 Fee \$ 4,632 1	FOR OFFICE US Receipt # R55		_Rec'd by_TS	Census
Zoning TPZ	GPD NR Sup	ervisor Dist 4	sec(	6-21 Twn 1	2N Rng 14E
ACTION BY	_PLANNING COMMISS _ZONING ADMINISTRA		ACT	TION BY BOARD O	OF SUPERVISORS
learing Date			Hea	ring Date	
Approvedfindings and/o	Denied or conditions attached	_	App	findings and/ PEAL:	Denied for conditions attached
executive Secretary			App	roved	Denied

Revised 11/2017



#### NATHANIEL WILLSON, ATTORNEY

I, Michael Kuhl, am the owner of that certain real property located at 1 Bullard Place, Pollock Pines, CA 95726, APN: 011-030-055 and 011-030-058. I authorize Nathaniel Willson to be my agent regarding the Conditional Use Permit Application.

Date:\_\_8/4/2024\_\_\_\_\_

MI-GKLL
Michael Kuhl

Contact information of applicant Michael Kuhl: 155 Ridgewood Drive
San Rafael, CA 94901-1136
<a href="mailto:mkuhl@business-esolutions.com">mkuhl@business-esolutions.com</a>
415-233-1230

Contact information for Agent Nathaniel Willson: 3080 Cedar Ravine Placerville, CA 95667 <a href="mathaniel@willson.legal">nathaniel@willson.legal</a> 530-626-4300

## RECEIVED

SEP - 9 2024

EL DORADO COUNTY PLANNING AND BUILDING DEPARTMENT

## COUNTY OF EL DORADO CAMPAIGN CONTRIBUTION DISCLOSURE FORM

Application or Solicitation Title:			-
Was a campaign contribution, regardless of of Supervisors or to any County Agency Of of the applicant's proposed subcontractors of	ficer on or after Ja	nuary 1, 2023, by	the applicant, or, if applicable, any
Yes No_XX			KECEIVED
If no, please sign and date below.			SEP - 9 2024
If yes, please provide the following information	tion:		EL DORADO COUNTY PLANNING AND BUILDING DEPARTMENT
Applicant's Name:			
Contributor or Contributor Firm's Name: _			
Contributor or Contributor Firm's Address:			
Is the Contributor:		•	
o The Applicant	Yes	No_	
o Subcontractor	Yes	No_	
o The Applicant's agent/ or lobbyist	1 65	No	
Identify the Board of Supervisors Member(s and/or agent/lobbyist made campaign contridates of contribution(s) and dollar amount or year of the contribution.	butions on or after	January 1, 2023,	the name of the contributor, the
Name of Board of Supervisors Member or C	ounty Agency Off	ficer:	<del></del>
Name of Contributor:			
Date(s) of Contribution(s):			
Anfount(s):			
(Please add an additional sheet(s) to identify your subconsultants, and/or agent/lobbyist m	nade campaign cor	ntributions)	
By signing below, I certify that the statement County any future contributions made to Boa applicable, any of the applicant's proposed signing this disclosure form, and within 12 millionse, permit, or entitlement to use.	ard Members or Coubcontractors or the	ounty Agency Off he applicant's ager	icers by the applicant, or, if nt or lobbyist <u>after</u> the date of
9/9/2024 Date		Signature of Ap	plicant
		Michael Kul	hl
Print Firm Name if applicable		Frint Name of A	Applicant

### EL DORADO COUNTY BOARD OF SUPERVISORS AND COUNTY AGENCY OFFICERS

## **Board of Supervisors**

John Hidahl, District One

George Turnboo, District Two

Wendy Thomas, District Three

Lori Parlin, District Four

Brook Laine, District Five

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EL DORADO COUNTY
PLANNING AND BUILDING DEPARTMENT

#### **County Agency Officers**

Jon DeVille, Assessor

Joe Harn, Auditor-Controller

Vern Pierson, District Attorney

Janelle K. Horne, Recorder-Clerk

Jeff Leikauf, Sheriff-Coroner-Public Administrator

K.E. Coleman, Treasurer-Tax Collector

#### Attachment A

#### **GOVERNMENT CODE SECTION 84308**

- (a) The definitions set forth in this subdivision shall govern the interpretation of this section.
- (1) "Party" means any person who files an application for, or is the subject of, a proceeding involving a license, permit, or other entitlement for use.
- (2) "Participant" means any person who is not a party but who actively supports or opposes a particular decision in a proceeding involving a license, permit, or other entitlement for use and who has a financial interest in the decision, as described in Article 1 (commencing with Section 87100) of Chapter 7. A person actively supports or opposes a particular decision in a proceeding if that person lobbies in person the officers or employees of the agency, testifies in person before the agency, or otherwise acts to influence officers of the agency.
- (3) "Agency" means an agency as defined in Section 82003 except that it does not include the courts or any agency in the judicial branch of government, the Legislature, the Board of Equalization, or constitutional officers. However, this section applies to any person who is a member of an exempted agency but is acting as a voting member of another agency.
- (4) "Officer" means any elected or appointed officer of an agency, any alternate to an elected or appointed officer of an agency, and any candidate for elective office in an agency.
- (5) "License, permit, or other entitlement for use" means all business, professional, trade, and land use licenses and permits and all other entitlements for use, including all entitlements for land use, all contracts (other than competitively bid, labor, or personal employment contracts), and all franchises.
- (6) "Contribution" includes contributions to candidates and committees in federal, state, or local elections.
- (b) While a proceeding involving a license, permit, or other entitlement for use is pending, and for 12 months following the date a final decision is rendered in the proceeding, an officer of an agency shall not accept, solicit, or direct a contribution of more than two hundred fifty dollars (\$250) from any party or a party's agent, or from any participant or a participant's agent if the officer knows or has reason to know that the participant has a financial interest, as that term is used in Article 1 (commencing with Section 87100) of Chapter 7. This prohibition shall apply regardless of whether the officer accepts, solicits, or directs the contribution on the officer's own behalf, or on behalf of any other officer, or on behalf of any candidate for office or on behalf of any committee.
- (c) Prior to rendering any decision in a proceeding involving a license, permit, or other entitlement for use pending before an agency, each officer of the agency who received a contribution within the preceding 12 months in an amount of more than two hundred fifty dollars (\$250) from a party or from any participant shall disclose that fact on the record of the proceeding. An officer of an agency shall not make, participate in making, or in any way attempt to use the officer's official position to influence the decision in a proceeding involving a license, permit, or other entitlement for use pending before the agency if the officer has willfully or knowingly received a contribution

in an amount of more than two hundred fifty dollars (\$250) within the preceding 12 months from a party or a party's agent, or from any participant or a participant's agent if the officer knows or has reason to know that the participant has a financial interest in the decision, as that term is described with respect to public officials in Article 1 (commencing with Section 87100) of Chapter 7.

- (d)(1) If an officer receives a contribution which would otherwise require disqualification under this section, and returns the contribution within 30 days from the time the officer knows, or should have known, about the contribution and the proceeding involving a license, permit, or other entitlement for use, the officer shall be permitted to participate in the proceeding.
- (2)(A) Subject to subparagraph (B), if an officer accepts, solicits, or directs a contribution of more than two hundred fifty dollars (\$250) during the 12 months after the date a final decision is rendered in the proceeding in violation of subdivision (b), the officer may cure the violation by returning the contribution, or the portion of the contribution in excess of two hundred fifty dollars (\$250), within 14 days of accepting, soliciting, or directing the contribution, whichever comes latest.
- (B) An officer may cure a violation as specified in subparagraph (A) only if the officer did not knowingly and willfully accept, solicit, or direct the prohibited contribution.
- (C) An officer's controlled committee, or the officer if no controlled committee exists, shall maintain records of curing any violation pursuant to this paragraph.
- (e)(1) A party to a proceeding before an agency involving a license, permit, or other entitlement for use shall disclose on the record of the proceeding any contribution in an amount of more than two hundred fifty dollars (\$250) made within the preceding 12 months by the party or the party's agent.
- (2) A party, or agent to a party, to a proceeding involving a license, permit, or other entitlement for use pending before any agency or a participant, or agent to a participant, in the proceeding shall not make a contribution of more than two hundred fifty dollars (\$250) to any officer of that agency during the proceeding and for 12 months following the date a final decision is rendered by the agency in the proceeding.
- (3) When a closed corporation is a party to, or a participant in, a proceeding involving a license, permit, or other entitlement for use pending before an agency, the majority shareholder is subject to the disclosure and prohibition requirements specified in this section.
- (f) This section shall not be construed to imply that any contribution subject to being reported under this title shall not be so reported.

#### Attachment B

## COUNTY OF EL DORADO CAMPAIGN CONTRIBUTION DISCLOSURE INFORMATION

The attached Campaign Contribution Disclosure Form must be completed by applicants for, or persons who are the subject of, any proceeding involving a license, permit, or other entitlement for use, including most contracts and franchises, pending before the Board of Supervisors ("Board") of the County of El Dorado or any of its affiliated agencies.

#### IMPORTANT NOTICE

Government Code section 84308 (also known as the "Levine Act") contains requirements that are summarized generally as follows:

- A. If you are an applicant for, or the subject of, any proceeding involving a license, permit, or other entitlement for use, you are prohibited from making a campaign contribution of more than \$250 to any member of the Board of Supervisors or other County official who may participate in your proceeding. This prohibition begins on the date your application is filed or the proceeding is otherwise initiated, and the prohibition ends 12 months after a final decision is rendered by the Board of Supervisors or other County officer. In addition, no Board member or other County official who may participate in your proceeding alternate may solicit or accept a campaign contribution of more than \$250 from you during this period.
- B. These prohibitions also apply to your agents, and, if you are a closely held corporation, to your majority shareholder as well. These prohibitions also apply to your subcontractor(s), joint venturer(s), and partner(s) in this proceeding. Also included are parent companies and subsidiary companies directed and controlled by you, and political action committees directed and controlled by you.
- C. You must file the attached disclosure form and disclose whether you or your agent(s) have in the aggregate contributed more than \$250 to any Board member or other County officer who may participate in your proceeding during the 12-month period preceding the filing of the application or the initiation of the proceeding.
- D. If you or your agent have in the aggregate contributed more than \$250 to any individual Board member or other County officer who may participate in your proceeding during the 12 months preceding the decision on the application or proceeding, that Board member or other County officer must disqualify himself or herself from the decision. However, disqualification is not required if the Board member or other County official returns the campaign contribution within 30 days from the time the member or official knows, or should have known, about both the contribution and the fact that you are a party in the proceeding. The Campaign Contribution Disclosure Form should be completed and filed with your application or proposal, or with the first written document you file or submit after the proceeding commences.

- 1. A proceeding involving "a license, permit, or other entitlement for use" includes all business, professional, trade and land use licenses and permits, and all other entitlements for use, including all entitlements for land use, all contracts (other than competitively bid, labor or personal employment contracts), and all franchises.
- Your "agent" is someone who represents you in connection with a proceeding involving a license, permit or other entitlement for use. If an individual acting as an agent is also acting in his or her capacity as an employee or member of a law, architectural, engineering, consulting firm, or similar business entity, both the business entity and the individual are "agents."
- 3. To determine whether a campaign contribution of more than \$250 has been made by you, campaign contributions made by you within the preceding 12 months must be aggregated with those made by your agent within the preceding 12 months or the period of the agency relationship, whichever is shorter. Contributions made by your majority shareholder (if a closely held corporation), your subcontractor(s), your joint venturer(s), and your partner(s) in this proceeding must also be included as part of the aggregation. Campaign contributions made to different Board of Supervisors members or other County officer who may participate in your proceeding are not aggregated.
- 4. A list of the Board of Supervisors members and other County officials is attached.

This notice summarizes the major requirements of Government Code section 84308 of the Political Reform Act and California Code of Regulations, Title 2 sections 18438.1-18438.8.



# COMMUNITY DEVELOPMENT SERVICES PLANNING AND BUILDING DEPARTMENT

2850 Fairlane Court, Placerville, CA 95667

Phone: (530) 621-5355 www.edcgov.us/Planning/RECEIVED

## **Conditional/Minor Use Permit**

#### REQUIRED SUBMITTAL INFORMATION

SFP - 9 2024

EL DORADO COUNTY
PLANNING AND BUILDING DEPARTMENT

The following items 1 through 9 must be provided with all applications. The remaining items shall be required where applicable. If all the required and applicable information is not provided, the application will be deemed incomplete and will not be accepted. For your convenience, please use the check  $(\sqrt{})$  column on the left to be sure you have all the required and applicable information. All plans and maps MUST be folded to  $8\frac{1}{2}$ " x 11".

miorifiation. All plans and maps MOST be folded to 672 X-11.				
	S AND MAPS ck (√) county	REQUIRED		
<u> </u>	1)	Application form, completed and signed.		
		Letter of authorization from all property owners authorizing agent to act as applicant, when applicable.		
N/A	3)	Proof of ownership (Grant Deed), if the property has changed title since the last tax roll.		
V	4)	A copy of official Assessor's map, showing the property outlined in red.		
<u>V</u>	5)	An 8 $\frac{1}{2}$ x 11" vicinity map showing the location of the project in relation to the distance to major roads, intersections, and town sites.		
<u> </u>	6)	Environmental Questionnaire form, completed and signed.		
/	7)	Provide name, mailing address and phone number of all property owners and their agents.		
	8)	A record search for archaeological resources shall be conducted through the North Central Information Center located at CSU-Sacramento, 6000 J Street, Adams Bldg, #103, Sacramento, CA 95819-6100, phone number (916) 278-6217. If the record search identifies a need for a field survey, a survey shall be required. (A list of Archaeological Consultants and survey requirements is available at the Planning Department.) Archaeological surveys shall meet the "Guidelines for Cultural Resource Studies" approved by the Board of Supervisors, available at the Planning Department.		
<u>\lambda</u>	9)	A traffic impact determination shall be provided utilizing El Dorado County's "Transportation Impact Study (TIS) – Initial Determination Form, located on the Planning Services website under "Applications and Forms".		
NA	10)	If public sewer or water service is proposed, obtain and provide a Facilities Improvement Letter if the project is located within the EID service area, or a similar letter if located in another sewer/water district.		

## FORMS AND MAPS REQUIRED

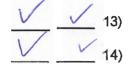
Check (√)
Applicant County

<u>NA NA</u> 11)

If off-site sewer or water facilities are proposed to serve the project, provide four (4) copies of a map showing location and size of proposed facilities. If ground water is to be used for domestic water, submit a report noting well production data for adjacent parcels, or submit a hydrological report prepared by a geologist noting the potential for water based on the nature of project site geology.

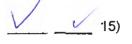
In an accompanying report, provide the following data for area on each proposed parcel that is to be used for sewage disposal:

- a) Percolation rate and location of test on 4.5 acres or smaller
- b) Depth of soil and location of test
- c) Depth of groundwater and location of test
- d) Direction and percent of slope of the ground
- e) Location, if present, of rivers, streams, springs, areas subject to inundation, rock outcropping, lava caps, cuts, fills, and easements
- f) Identify the area to be used for sewage disposal
- g) Such additional data and information as may be required by the Division Director of Environmental Management to assess the source of potable water, the disposal of sewage and other liquid wastes, the disposal of solid wastes, drainage, and erosion control



Preceding parcel map, final map, or record of survey, if any exists.

Preliminary grading, drainage plan, and report. The plan should be of sufficient detail to identify the scope of grading, including quantities, depths of cut and fills (for roads and driveways where cuts/fills exceed 6 feet, and mass pad graded lots), location of existing drainage, proposed modifications, and impacts to downstream facilities. (See Section 110.14.240 of County Grading Ordinance for submittal detail)



If located within one of the five Ecological Preserve - EP overlay zones (Mitigation Area 0), rare plants may exist on-site. The State Department of Fish & Wildlife will require an on-site biological plant survey to determine the extent and location of rare plants on the project site. Such a survey can only occur from March 15 through August 15 when plants are readily visible. Therefore, if the State Department of Fish & Wildlife requires the plant survey, a substantial delay in the processing of your application could result. To avoid potential delays, you may choose to provide this survey with application submittal. (A list of possible Botanical Consultants is available at Planning Services.)

MA NA 16)

Name and address of Homeowner's Association, CSA 9 Zone of Benefit, or other road maintenance entity if it exists in the project area.

A site-specific wetland investigation shall be required on projects with identified wetlands as delineated on the applicable U.S.G.S. Quadrangle and/or by site visit, when proposed improvements will directly impact the wetland (reduce the size of the wetland area) or lie near the wetlands. (Available from Planning Services are the U.S. Corps of Engineers requirements for a wetlands delineation study. A list of qualified consultants is also available.)

1. In (1.		Page
WA NIK	18)	An acoustical analysis shall be provided whenever a noise-sensitive land use (residences, hospitals, churches, libraries) are proposed adjacent to a major transportation source, or adjacent or near existing stationary noise sources. Such study shall define the existing and projected noise levels and define how the project will comply with standards set forth in the General Plan.
<u>/</u>	19)	Where potential for special status plant and/or animal habitats are identified on the parcel(s), an on-site biological study shall be required to determine if the site contains special status plant or animal species or natural communities and habitats.
<u> </u>	20)	An air quality impact analysis shall be provided utilizing the El Dorado County Air Pollution Control District's "Guide to Air Quality Assessment."  Frail Poyed Trys to AQ MD a EDC GOV, US
OAK TREE/OA	AK WO	ODLAND REMOVAL
Trees, or Herit cut down) co	age Tre	emental information shall be required if any Oak Woodlands, Individual Native Oak ees, as defined in Section 130.39.030 (Definitions) will be impacted by the project (i.e. at with Section 130.39.070 (Oak Tree and Oak Woodland Removal Permits - coment Projects).
Check (√) Applicant County		
<u>N/4</u>	1)	Oak Resources Code Compliance Certificate.
	2)	Oak Resources Technical Report prepared by a Qualified Professional consistent with Section 2.5 (Oak Resources Technical Reports) of the Oak Resources Management Plan.
	3)	Completed Oak Resources Technical Report Checklist, including supplemental data for impacted Individual Native Oak Trees within Oak Woodlands, as applicable.
	4)	Security deposit for on-site oak tree/oak woodland retention and/or replacement planting (if proposed as part of project mitigation) consistent with Section 130.39.070.F (Security Deposit for On-Site Oak Tree/Oak Woodland Retention and Section 130.30.070.G (Security Deposit for On-Site Oak Tree/Oak Woodland Replacement Planting).
	5)	Reason and objective for impact to oak trees and/or oak woodlands.
on the site at of sufficient size	s plus time of ze to c	EMENTS an electronic copy (CD-ROM or other medium) of the site plan detailing what exists fapplication shall be submitted on 24" x 36" sheets or smaller, drawn to scale, and learly show all details and required data. All plans MUST be folded to 8½" x 11", reduction. NO ROLLED DRAWINGS WILL BE ACCEPTED.
For your conve submittal infor		e, please check the Applicant column on the left to be sure you have all the required
Check (√)  Applicant County	,	
V V	1)	Project name (if applicable).
V /	2)	Name, address of applicant and designer (if applicable).

V	V 3)	Page Date, north arrow, and scale.
1/	√ <sub>4)</sub>	Entire parcel of land showing perimeter with dimensions.
		Entire parcer of land showing perimeter with dimensions.
V	5)	All roads, alleys, streets, and their names.
V	6)	Location of easements, their purpose and width.
V	7)	All existing and proposed uses (i.e. buildings, driveways, dwellings, utility transmission lines, etc.).
V	8)	Parking and loading stalls with dimensions (refer to Zoning Ordinance Chapter 130.35 and the Community Design Standards-Parking and Loading Standards).
V	9)	Trash and litter storage or collection areas, and propane tank location(s).
~	10	Total gross square footage of proposed buildings.
V	11	Proposed/existing fences or walls.
V	12)	Sign locations and sizes (if proposed) (refer to Zoning Ordinance Chapter 130.16).
V	13)	Pedestrian walkways, courtyards, etc. (if proposed).
V	14	Exterior lighting plan (if proposed), along with a Photometric Study and fixture specifications (refer to Zoning Ordinance Chapter 130.34 and the Community Design Standards-Outdoor Lighting Standards).
V	15)	Existing/proposed water, sewer, septic systems, and wells (if applicable).
V	16)	Existing/proposed fire hydrants.
	17)	Tentative subdivision or parcel map (if applicable).
V	18)	Public uses (schools, parks, etc.)
V	19)	The location, if present, of rock outcropping, lava caps, drainage courses, lakes, canals, reservoirs, rivers, streams, spring areas subject to inundation and wetlands. (Show respective 100-foot and 50-foot septic system setbacks when a septic system is proposed).
V	20)	Identify areas subject to a 100-year flood on perennial streams or creeks, and show high water level (100-year) on map. Where this data is not readily available, January 1997 flood level can be shown if known. (Refer to the Federal Emergency
V	21)	Management Agency (FEMA) website).

PRELIMINARY LANDSCAP	E PLAN REQUIREMENTS
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Required when parking facilities are proposed or otherwise at planner's discretion. (Refer to Zoning Ordinance Chapter 130.33 and the Community Design Standards – Landscaping and Irrigation Standards).

(Five (5) copies plus an electronic copy (CD-ROM or other medium), folded to 8½" x 11", plus one 11" x 17" reduction).

Check (√) Applicant County		
1.14		
<u>N</u> A	1)	Location, quantity, and a gallon size of proposed plant material (See Zoning Ordinance Chapter 130.33 and the Community Design Standards – Landscaping and Irrigation Standards).
	2)	Note quantity/type of trees to be removed.
- MAAAAAAAA	3)	Location, general type (pine, oak, etc.) and size of all existing trees, in those areas that are subject to grading or otherwise may be removed/affected by proposed improvements. Note quantity of trees to be removed.
	4)	List of both common and botanical names of plant material (use of drought tolerant species is highly recommended). A recommended list of drought-tolerant species is available at Planning Services.
	5)	Location of irrigation proposed. (NOTE: The final Landscape Plan will ultimately be required to meet the County's Water Conserving Landscape Standards. Copies are available at Planning Services).
		ING AND DRAINAGE PLAN
		ny grading is proposed.
x 11" reduction		an electronic copy (CD-ROM or other medium), folded to 8½" x 11", plus one 8.5"
A IT TEUGCE	Onj.	
Check (√) Applicant County		
Applicant County		
	1)	Contours or slope data (pursuant to Chapter 110.14 of County Code Grading, Erosion, and Sediment Control Ordinance).
<u> </u>	2)	Drainage improvements, culverts, drains, etc.
<u> </u>	2)	Drainage improvements, culverts, drains, etc.  Limits of cut and fill
<u>V</u>	2)	
	LDING	Limits of cut and fill
Required when	LDING never a	Limits of cut and fill  ELEVATIONS  new structure or addition is proposed.
Required when	LDING never a	Limits of cut and fill
Required when (Five (5) copie	LDING never a	Limits of cut and fill  ELEVATIONS  new structure or addition is proposed.
Required when (Five (5) copie x 11" reduction Check (√)	LDING never a	Limits of cut and fill  ELEVATIONS  new structure or addition is proposed.
Required when (Five (5) copie x 11" reduction Check (√)	LDING never a es plus a on).	ELEVATIONS  new structure or addition is proposed. an electronic copy (CD-ROM or other medium), folded to 8½" x 11", plus one 8.5"
Required when (Five (5) copie x 11" reduction Check (√)	LDING never a es plus a on).	ELEVATIONS  new structure or addition is proposed. an electronic copy (CD-ROM or other medium), folded to 8½" x 11", plus one 8.

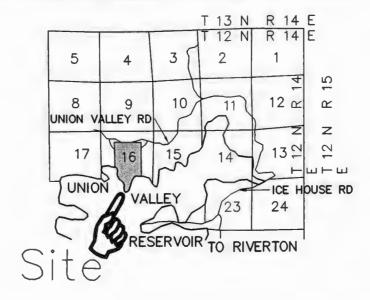
Planning Services\_reserves the right to require additional project information as provided by Section 15060 of the California Environment Quality Act, or as required by the General Plan development policies, when such is necessary to complete the environmental assessment.

NOTE: APPLICATION WILL BE ACCEPTED BY APPOINTMENT ONLY. MAKE YOUR APPOINTMENT IN ADVANCE BY CALLING (530) 621-5355.



## VICINITY MAP

N.T.S.



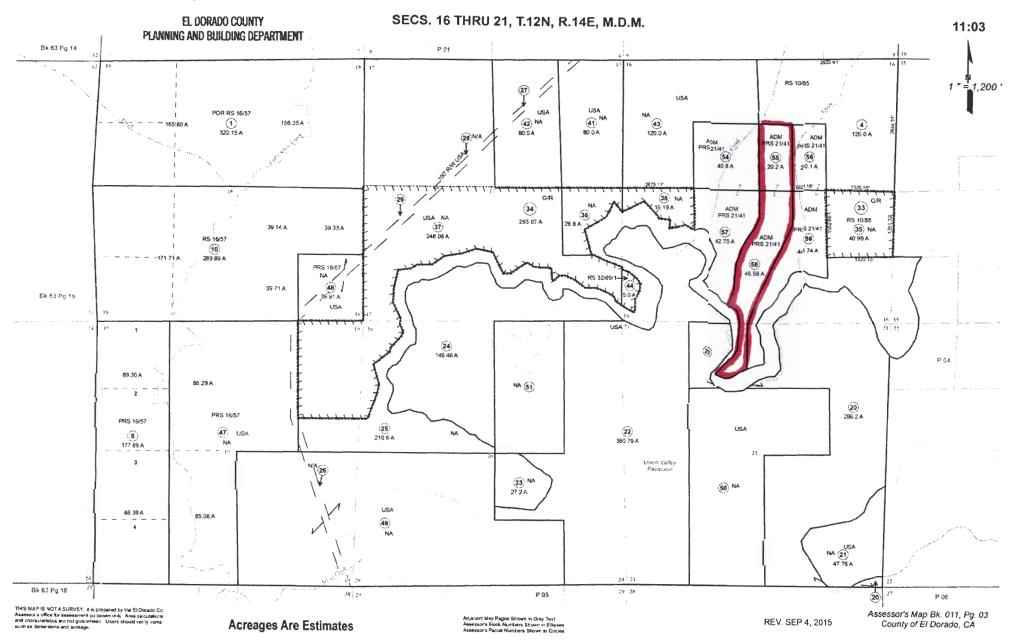
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SEP - 9 2024

EL DORADO COUNTY
PLANNING AND BUILDING DEPARTMENT

## **RECEIVED**

SEP - 9 2024





## DEPARTMENT OF TRANSPORTATION TRANSPORTATION PLANNING

2850 Fairlane Court, Placerville, CA 95667 Phone (530) 621-7580

## Transportation Impact Study (TIS) - Initial Determination

The information provided with this form will be used by County staff to determine if the proposed project will be required to complete a Transportation Impact Study (TIS) or an On-Site Transportation Review (OSTR). If one or both are required, County staff will contact the applicant with more information about the required studies. Both studies are described in the TIS Guidelines, which can be found on the County's website. An OSTR is typically required for all projects.

Complete and submit this form along with a detailed project description and a site plan by mail, fax or email.

28	n: Zac 50 Fair	nsportation Planning h Oates ane Court e, CA 95667	Phone Email:	zach	621-7580 .oates@edcgov.us ie.brady@edcgov.us
Da	ite Rec	eived by Transportation Planning:	8-20-	24	
Applicant l	nforma	tion:			
Name: 1	Vatha	niel Willson	Phone #:	530-6	26-4300
Address: 3080 Cedar Ravine, Placerville, CA 95667		Email:	nathai	niel@willson.legal	
Project Info	ormatio	n:			
Name of Pr	oject:	Kuhl CUP	Planning No	umber:	
Project Loc	ation:	1 Bullard PL, Pollock Pines, CA 95726	Bldg Size:		2538
APN(s):		011-030-055 and 058	Project Plan	nner:	
		,	Number of	units:	One
Description	of Proje	ect: (Use, Number of Units, Building Size	, etc.)		
		permit to place a single family re		Timbo	- Decesio Zonina

If an OSTR is required, the following information shall be evaluated and the findings signed and stamped by a registered Traffic Engineer or Civil Engineer, and shall be included with the project submittal:

- 1. Existence of any current traffic problems in the local area such as a high-accident location, non-standard intersection or roadway, or an intersection in need of a traffic signal
- 2. Proximity of proposed site driveway(s) to other driveways or intersections
- 3. Adequacy of vehicle parking relative to both the anticipated demand and zoning code requirements
- 4. Adequacy of the project site design to fully satisfy truck circulation and loading demand on-site, when the anticipated number of deliveries and service calls may exceed 10 per day
- 5. Adequacy of the project site design to provide at least a 25 foot minimum required throat depth (MRTD) at project driveways, include calculation of the MRTD
- 6. Adequacy of the project site design to convey all vehicle types

  RECEIVED

8. Queuing analysis of "drive-through" facilities

SEP - 9 2024 Rev 06/13/2024

**EL DORADO COUNTY** PLANNING AND BUILDING DEPARTMENT



land?

# COMMUNITY DEVELOPMENT SERVICES PLANNING AND BUILDING DEPARTMENT

2850 Fairlane Court, Placerville, CA 95667 Phone: (530) 621-5355 <a href="www.edcgov.us/Planning/">www.edcgov.us/Planning/</a>

# EL DORADO COUNTY PLANNING SERVICES ENVIRONMENTAL QUESTIONNAIRE

## **RECEIVED**

SEP - 9 2024 File Number **EL DORADO COUNTY** Date Filed PLANNING AND BUILDING DEPARTMENT KUHL Conditional Use Permit Lead Agency **Project Title** 415-233-1230 Michael Kuhl Name of Owner Telephone 155 Ridgewood Drive, San Rafael, CA 94901 Address Nathaniel Willson 530-626-4300 Name of Applicant Telephone Address 3080 Cedar Ravine, Placerville, CA 95667 1 Bullard Place, Pollock Pines, CA 95726 Project Location Acreage 65.78 Assessor's Parcel Number(s) 011-030-055 & 058 TPZ Zoning Please answer all of the following questions as completely as possible. Subdivisions and other major projects will require a Technical Supplement to be filed together with this form. 1. Type of project and description: Conditional use permit to place a house on Timber Preserve Zoned property. 2. What is the number of units/parcels proposed? **GEOLOGY AND SOILS** 3. Identify the percentage of land in the following slope categories: ① to 10% ☐11 to 15% ☐16 to 20% 21 to 29% bver 30% 22.47 % 18.74% 20.18% 7.27% 31.34% 4. Have you observed any building or soil settlement, landslides, rock falls or avalanches on this property or in the nearby surrounding area? 5. Could the project affect any existing agriculture uses or result in the loss of agricultural

6.	Is the project located within the flood plain of any stream or river?					
7	If so, which one?					
7.	What is the distance to the nearest body of water, river, stream or year-round drainage channel  1/4 Mile					
8.	Will the project result in the direct or indirect discharge of silt or any other particles in noticeable					
	amount into any lakes, rivers or streams?					
3.	Will the project result in the physical alteration of a natural body of water or drainage way?  If so, in what way?					
10.	Does the project area contain any wet meadows, marshes or other perennially wet areas?					
/EGE	ETATION AND WILDLIFE					
11.	What is the predominant vegetative cover on the site (trees, brush, grass, etc.)? Estimate percentage of each:					
	Sierra Mixed Conifer 90% and Wet Meadow 10%					
2.	How many trees of 6-inch diameter will be removed when this project is implemented?					
FIRE	PROTECTION					
13.	In what structural fire protection district (if any) is the project located? El Dorado County					
14.	What is the nearest emergency source of water for fire protection purposes (hydrant, pond, etc.)? Union Valley Reservoir 1/4 Mile away.					
15.	What is the distance to the nearest fire station? 26.7 Miles					
16.	Will the project create any dead-end roads greater than 500 feet in length? No					
17.	Will the project involve the burning of any material including brush, trees and construction materials?No					
NOIS	SE QUALITY					
18.	Is the project near an industrial area, freeway, major highway or airport? No					
	If so, how far?					
19.	What types of noise would be created by the establishment of this land use, both during and after construction?					

**DRAINAGE AND HYDROLOGY** 

<u>AIR</u>	QUALITY
20.	Would any noticeable amounts of air pollution, such as smoke, dust or odors, be produced by
	this project? No
WA	ERQUALITY
21.	Is the proposed water source
22.	What is the water use (residential, agricultural, industrial or commercial)? Residential
<u>AES</u>	THETICS
23.	Will the project obstruct scenic views from existing residential areas, public lands, and/or public
	bodies of water or roads? No
ARC	HAEOLOGY/HISTORY
24.	Do you know of any archaeological or historical areas within the boundaries or adjacent to the
	project? (e.g., Indian burial grounds, gold mines, etc.) Yes see Archeological Report
	AGE
25.	What is the proposed method of sewage disposal?
••	Name of district:
26.	Would the project require a change in sewage disposal methods from those currently used in the vicinity?No
TRAI	NSPORTATION
27.	Will the project create any traffic problems or change any existing roads, highways or existing
	traffic patterns? No
28.	Will the project reduce or restrict access to public lands, parks or any public facilities?
	No
SBO	A/TU INDUCING IMPAGE
	WTH-INDUCING IMPACTS
29.	Will the project result in the introduction of activities not currently found within the community?  No
30.	Would the project serve to encourage development of presently undeveloped areas, or
	increases in development intensity of already developed areas (include the introduction of new
	or expanded public utilities, new industry, commercial facilities or recreation activities)?
	No

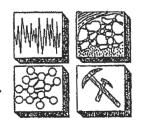
31.	Will the project require the extension of existing public utility lines?					
	If so, identify and give distances:					
GEN	ERAL					
32.	Does the project involve lands currently protected under the Williamson Act or an Open Space  Agreement?No					
33.	Will the project involve the application, use or disposal of potentially hazardous materials, including					
	pesticides, herbicides, other toxic substances or radioactive material?					
	No					
34.	Will the proposed project result in the removal of a natural resource for commercial purposes					
	(including rock, sand, gravel, trees, minerals or top soil)? No					
35.	Could the project create new, or aggravate existing health problems (including, but not limited to, flies,					
	mosquitoes, rodents and other disease vectors)?No					
36.	Will the project displace any community residents? No					
MITIO	GATION MEASURES (attached additional sheets if necessary)					
	osed mitigation measures for any of the above questions where there will be an adverse impact:					
	general measures for any or the above queening more than as an according to					
Forn	n Completed by:Nathaniel Willson Date:August 30, 2024					
1 011	n Completed by: Nathaniel Willson Date: August 30, 2024					

Revised 11/2017

## WHEELDON GEOLOGY

Consulting Geologists

7700 BAYNE ROAD • PLACERVILLE • CALIFORNIA • 95667 530-621-4482 • wheeldongeology@gmail.com



William T. Mitchell II Professional Geologist #5445

### REPORT OF PERCOLATION TEST

for

Michael Kuhl

APN: 011-030-058-000

SET - 9 LULT

EL DORADO COUNTY
PLANNING AND BUILDING DEPARTMENT

DIRECTIONS TO PROPERTY

HWY 50 EAST, NORTH ON ICE HOUSE RD, LEFT ON NF-31 TOWARD YELLOW JACKET CMPGD, CONTINUE ONTO 12N78 THEN ONTO 12N52 LEFT THROUGH GATE TO SITE

TEST DATE 10/31/2023 WEATHER CLEAR WARM

NUMBER OF HOLES TESTED

4

Test Holes shown on Location Map

Test Hole	Depth (ft.)	Stabilized Percolation Rate
1	2.0	5
2	1.5	13
3	3.5	7
4	5.0	7

Soil Profile from Backhoe Trench: 10/31/23

0 - 6.5 FT LIGHT BROWN SANY SOIL
6.5 - 9.0 FT YEL BROWN D.G. SOIL
9.0 - 10.5 FT YEL BROWN COBBLY SANDY SOIL
ON STR OX, STR WEATHERED DECOMPOSED GRANODIORITE
ROOTS OBSERVED TO 6 FT

REQUIRED BACKHOE TEST TRENCH ALSO INSPECTED BY COUNTY - YES

Average Percolation Rate

8

Minutes per Inch

TEST MADE BY WHEELDON GEOLOGY

JOB NUMBER - 23-83

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Consulting Geologists

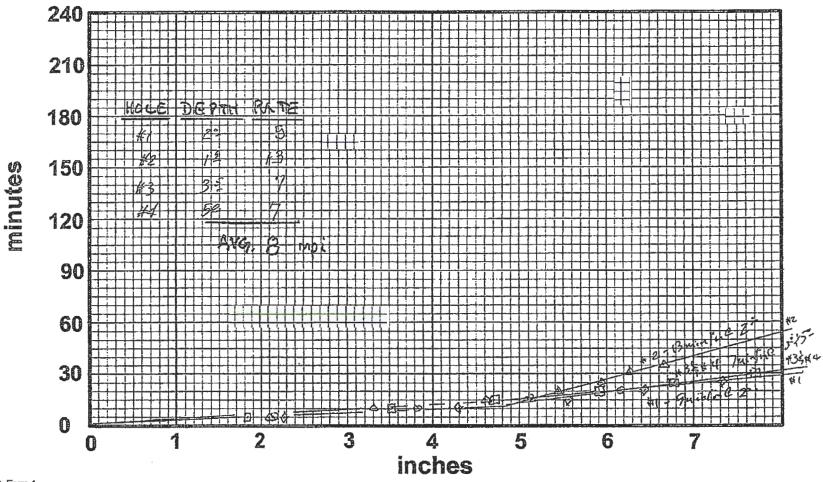
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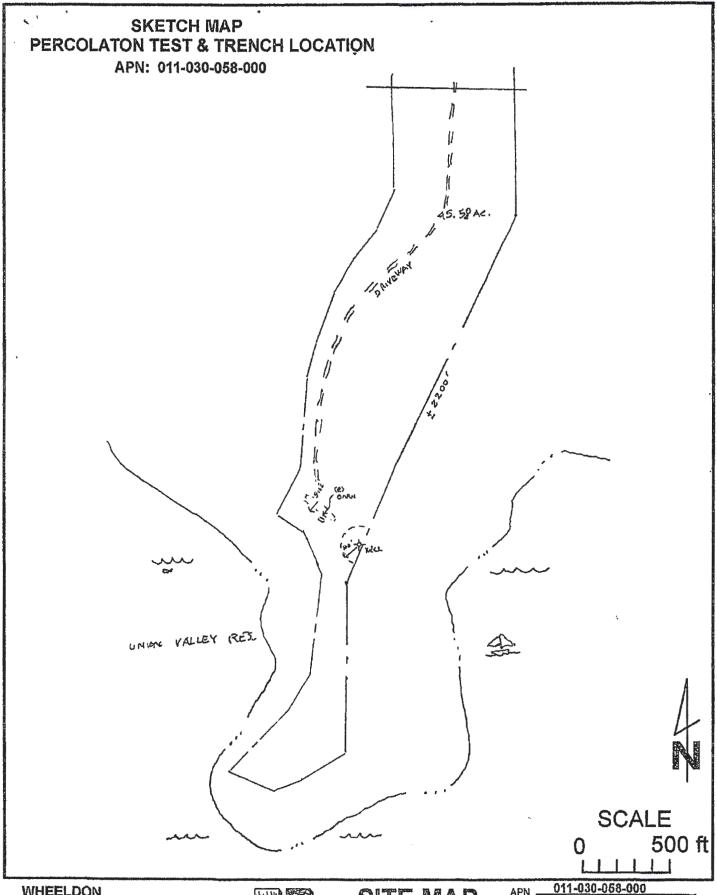


JOB MICHAEL	KUML	JOB NO 23-83
APN 011 - 0.	30-058	-000
		DATE 11-1-23
CHECKED BY		

AVERAGE PERCOLATION RATE \_\_\_\_\_\_ 8 \_\_\_\_minutes / inch

## PERCOLATION TEST DATA PLOT





WHEELDON GEOLOGY Consulting Goologists

7700 BAYNE ROAD \* PLACERVILLE \* CALIFORNIA \* 95867 830-621-4482 \* whoeldongs plogy.com



SITE MAP

MICHAEL KUHL

N. SHORE UNION VLY RES

APN 011-030-058-000

SCALE 1" = 500'JOB NO 23-83

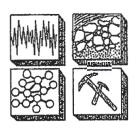
DRAWN BY WTM II DATE 11-2-23

CHECKED BY DATE

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William T. Mitchell II Professional Geologist #5445

# SPECIAL DESIGN SEPTIC SYSTEM DESIGN CALCULATIONS APN: 011-030-058-000

NAME: Michael Kuhl

LOCATION: North Shore Union Valley Res.; APN: 011-030-058-000

INSPECTED BY EL DORADO COUNTY ENVIRONMENTAL HEALTH DEPT.

1. Percolation Rate =			8		Minu	tes pe	r inch		
2. Application Rate =			1.768		Gallo	ns/sq.:	ft./day		
3. Flow Rate =	~220	Ga	d./bedrm/day		5		bedrooms ≈	950	Gal./day
4. Absorption Area =			537		sq. ft.				
5. Deep Trench Calculation	ons = 2(W+L	.) (H-1.5	)						
TOTAL LENGTH:	60	ft. of	1.5 ft. wide	x		5.5	ft. deep trench	Ezflow	,
SOIL DEPTH AND NO GROU BACKHOE TEST TRENCH IN		K. TO	10/31/23		10.5	ft			

N.B. Follow instructions for Ezflow system carefully. See Detail Pages.

JOB NUMBER - 23-83

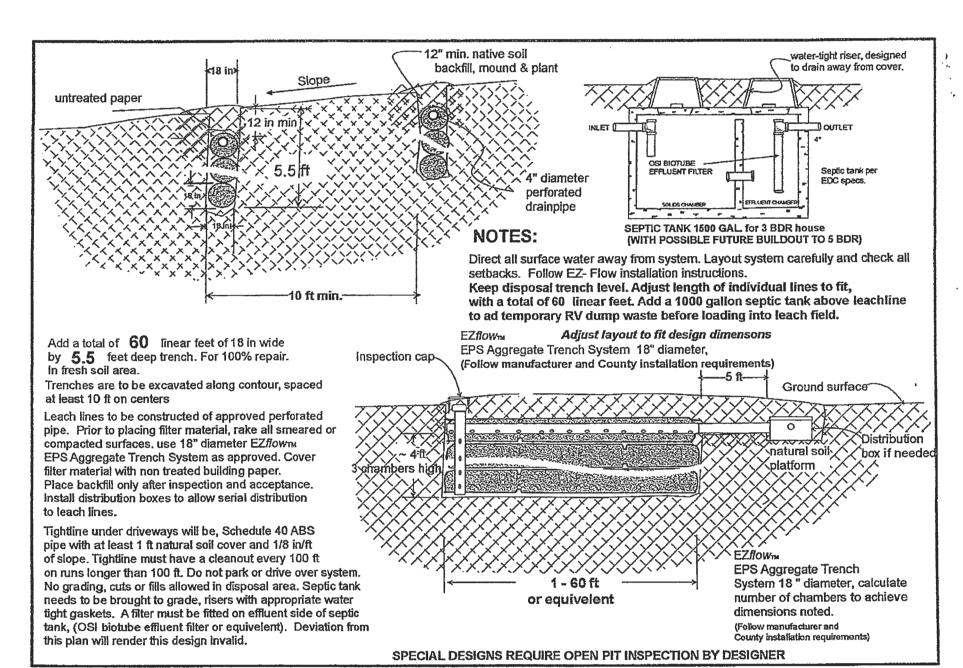
YES

• • WHEELDON GEOLOGY
Geological Consultants
7700 Bayne Road
PLACERVILLE, CA 95667
(530) 621 - 4482



JOB_ Mich	ael Kuhl	JOB NO. 23-83
	-030-058-0 <u>0</u> 00	SHEET NO OF
		DATE 11-3-23
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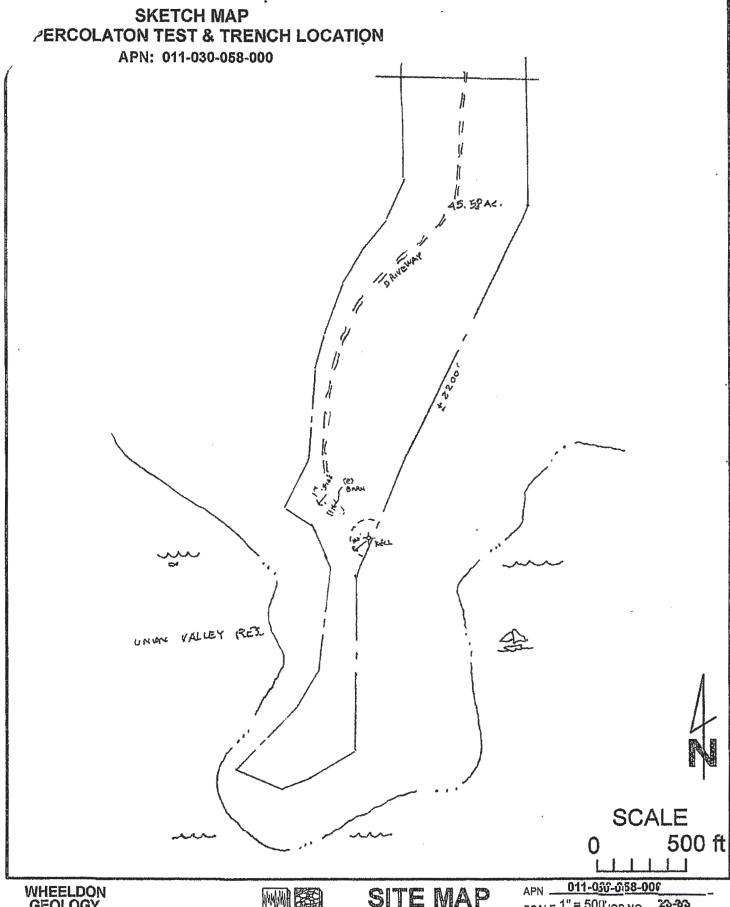
Consulting Geologists

7700 BAYNE ROAD . PLACERVILLE . CALIFORNIA . 95687

530-621-4482 · WHEELDONGEOLOGY.COM

## SEPTIC SYSTEM DETAIL typical

MICHAEL KUHL
N. SHORE UNION VALLEY RESERVOIR
OFF YELLOW JACKET CAMPGROUND RD



WHEELDON GEOLOGY Consulting Geologists

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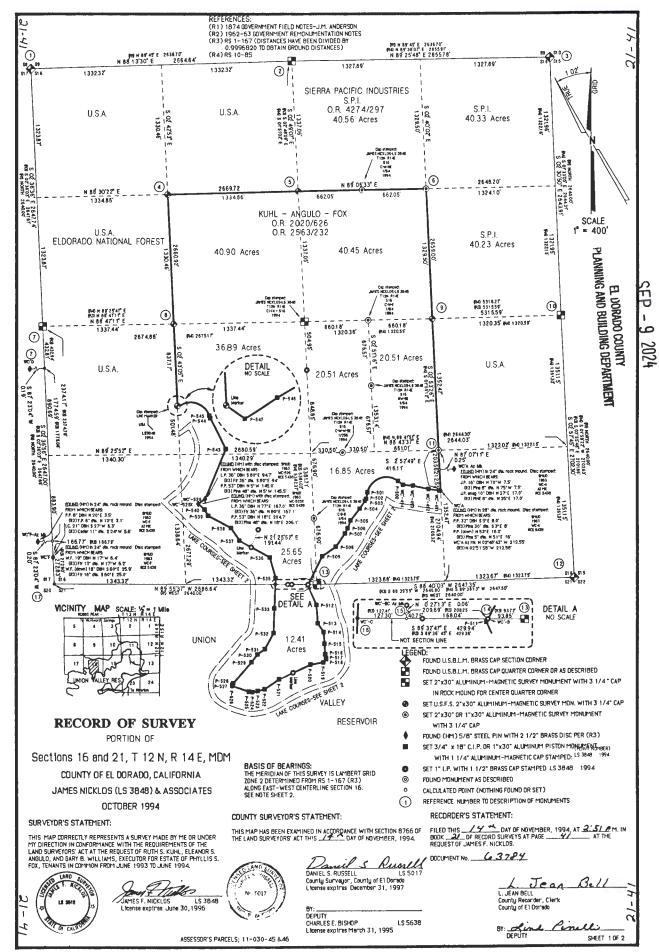
SCALE 1" = 500 JOB NO\_ 23-83 N. SHORE UNION VLY RES DRAWN BY WTM II DATE 11-2-23 25-0907 B 30 of 167

## WHEELDON GEOLOGY

Geological Consultants 7700 Bayne Road PLACERVILLE, CA 95667 (630) 621 - 4482



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DECORPORTION OF NOW MENTS			6/4-16
DESCRIPTION OF MONUMENTS  1) EDLIND.STANDARD U.S. BLM BRASS CAP monument SA RS	(9) SET U.S.F.S. monument 23" in ground. CAP STAMPED: T12N R1-€	MEASURED RECORD PER(R3)	RECORD OF SURVEY
1) ESTINUTARIO U.S. BUTI BRASS CAP MONUMENT 58 E9 10 32" die. rock mound. CAP STAMPED: 517 516 FROM WHICH BEARS: 1963	Relsed 36" dta, rock mound. E1/16  C→C	S 69"57"52" W 15.22' WEST 15.21'	RECORD OF SURVEY
W.F. Stumphole N 35° W 27', (R1) Fir 15" dia. N 35° W 27.1',	1 1/2" C.I.P. per RS 3-144 S 86*48'47" W 0.67' LS 3846	N 81 "58'34" W 109.20' N 81 "56'50" W 109.16'	PORTION OF
(R2)Fir 24" die. Sneg N 35" W 27.1" W.F. Stumphole 5 85" W 42.5", (R1)Fir 16" die. S 85" W 42.2"	1994	WC'-492 N 77*43'08" W 163.71' N 77*41'00" W 163.66'	Sections 16 and 21, T 12 N, R 14 E, MDM
(R2) Fir Stump 12" die. S 85° W 42.2" i.C. 35" Stump 44" die. N 65° E 56,8", (R1) Ceder 40" die.	(10) EDLIND STANDARD U.S.BLM BRASS CAP monument I/A In 30" dla. rock mound with Inverted 1" fron pipe \$16   \$15	WC"-493 N 84*38'28" W 102.71' N 84*36'20" W 102.67'	, ,
N 60°E 57.4' Stumphole S 76°E 8', (R1) Ftr 50° dte. S 88°E 11.2'	on NW side. CAP STAMPED: 712M R1≪ FROM WHICH BEARS: 1963	WC"-494 N 52*51'56" W 65.34' S 52*49'50" W 65.32'	COUNTY OF EL DORADO STATE OF CALIFORNIA
(R2) Snag 50" die. S BB"E 4.6" i.C. 13" DBH S 14"E 12.4", heeled scar, (R2) Cedar 4" die.	P.P. Sturng +70" dta. S 68" F 30.8".	P-500 \$ 69*53'40"W 336.57' \$ 69*55'50" W 336.47'	JAMES NICKLOS (LS 3848) & ASSOCIATES OCTOBER 1994
S 14*E 12.9'	(R1) Pine 60" dis. S 68" E 31.0", (R2) S.P. 65" dis. S 68" E 31.0" P.P. Stump 60" dis. N 62" W 28.7", scribing visible, (R1) Pine	D=114*28'22" R=200.12' D=114*28'40" R=200' P-501	
W.F. 17" DBH S 7" W 26.3", (R2) W.F. 6" dla. S 7" W 27.1"	50" dia. N 62" W 27.1', (R2) S.P. 55" dia. N 62" W 27.1' W.F. 30" DBH N 21" W 38.9', healed scarr, (R2) W.F. 15" dia.	S 12*39'14" W 71.15' S 12*41'30" W 71.13' P-502	MONUMENT DESCRIPTION LEGEND
2 FOUND STANDARD U.S. BLM BRASS CAP monument 1/4 S9 In 18" die. rock mound. CAP STAMPED: Trouble.	N 21° W 38.9' W.F. 34" DBH N 88° E 32.3', healed scar, (R2) W.F. 20" dia.	\$ 29*34'50" W 24.88' \$ 29*37'00" W 24.88' P-503	U.S.BLM 2 1/2" x 28" IRON POST, SET IN ROCK MOUND, WITH STANDARD U.S. BUREAU
FROM WHICH BEARS: 1963	N B7 1/2°E 32.3'	S 32*44'26" W 98.31' S 32*46'30" W 98.28' P-504	OF LAND MANAGEMENT BRASS CAP PER (R2)
P.P. Stump 66" die. N 80° E 45.6', heeled blaze (R1) PINE 50" N 80° E 48.2', (R2) S.P. 64" die. N 80° E 44.9'	11) EOLIND 2" aluminum-magnetic survey monument \$\frac{\tau_12N}{\text{SE}} \cdot 16 \text{ SI} \tag{16}	\$ 38°09'32" W 154.17" \$ 38°11'40" W 154.13" P-505	(R1) GOVERNMENT FIELD NOTES - J.M. ANDERSON, 1874
P.P. Stump 34" dia. N 80" W 31.9", (R1) Pine 20" dia. N 80" W 31.7", (R2) S.P. 32" dia. N 80" W 31.0"	In 30" die rock mound. 3 1/4" CAP STAMPED: FROM WHICH BEARS: Ls 4596	S 19*59'45" W 86.02' S 20*01'40" W 86.00' P-506	(R2) GOVERNMENT REMONUMENTATION NOTES, 1963-64
W.F. 21" DBH N 64*W 4.6', (R2) W.F. 10" dla. N 59 1/4*W 4.6' W.F. 21" DBH S 15*E 21.2', (R2) W.F. 9" S 15*E 21.1'	W.F. 21" DBH S 85° W 39.9', scribing visible 1980 (R3) Fir 8" dia. WEST 40.8', (R4) Fir 15" dia. S 85° W 40.0'	\$ 27*54*04* \ 60.93' \ \$ 27*56*10* \ 60.92' P-507	(R3) RS 1-167 (DISTANCES HAVE BEEN DIVIDED BY 0.9996820 TD D8TAIN GROUND
	J.P. 15" DBH N 52" E 25.2', scribting visible and unreadable tag (R3) Pine 15" dia. N 55" E 24.0', (R4) Pine 14" dia. N 51" E 25.2'	S 35°21'26" W 163.82' S 35°23'30" W 163.77'	DISTANCES)
to 36" dla. rock mound. CAP STAMPED: S9 810		P-508 \$ 54*49'08" W 170.57' \$ 54*51'20" W 170.52'	(R4) RS 10-85  DBH DIAMETER BREAST HIGH (4.5' ABOVE GROUND LEVEL ON HIGH SIDE OF TREE)
J.P. Stump 54" dla. N 2"E 39.9",	(12) EQUIND STANDARD U.S.BLM BRASS CAP monument in 1124 R14€ 30° die. rock mount in lerge stumphole. CAP STAMPED: 516, IS15 FROM WHICH BRADS: 521, IS22	P-509 \$ 27*13'55" W 322.82' \$ 27*16'00" W 322.72'	BT BEARING TREE
(R1) Pine 20" dia. N 2*E 39.6", (R2) S.P. Stump 54" dia. N 2*E 38.9" W.F. Snag 40" DBH S 23*W 69.7", scribing visible, (R1) Fir 24" dia.	FROM WHICH BEARS: 521   522   522   523   523   523   523   523   524   524   525	WC'-B S 27*19'59" W 8.51' S 27*16'00" W 8.50'	Y.P. YELLOW PINE
S 25° W 68.6', (R2) W.F. 42" dia. S 25° W 68.6' J.P. Stump ±48" dia. N 4° W 44.8', (R1) Pine 20" dia. N 2° W 44.2'	70.6', (R2) Pine 30' dis. stumphole S 41° E 70.6' Stumphole S 25° W 47.4', (R1) Pine 40' dis. S 20° W 46.2'	P-511 S 24*25*29* E 223.88 S 24*29*30* E 223.59*	P.P. PONDEROSA PINE
(R2) S.P. 46" dla. N 4" W 44.2"	W.F. 15" DBH N 54°E 17.8', healed scar, (R2) W.F. 7" dla.	P-512 S 03*54'07" E 192.65' S 03*58'00" E 192.40'	J.P. JEFFREY PINE
W.F. 24" DBH N 65" E 45.1", heated scar, (R2) W.F. 16" dta. N 65" E 45.5"	N 54°E 17.8', (R3) Fir 6" die. N 56°E 18'  J.P. sneg 13" DBH S 85°E 29.7', scribing visible, (R2) Y.P. 12" die.	P-513 \$ 34*24'51" E 108.97' \$ 34*28'50" É 108.82'	S.P. SUGAR PINE
W.F. 12" DBH 578*E 23.2', heeled scar, (R2) W.F. 6" dia. 578 1/2*E 23.6'	S B4 1/2*E 30.0', (R3) Y.P. 11" dta. S B0*E 29.7' J.P. ±20" DBH S 76*W 23.3', heeled scar, (R2) Y.P. 16" dta.	P-514 S 04*23'36" E 120.32' S 04*27'40" E 120.17'	Ł.P. LODGEPOLE PINE W.F. WHITE FIR
W.F. 14" DBH S 44" W 33.4", heeled scar, (R2) W.F. 8" dte. S 43 1/2" W 34.0"	S 77° W 24.1', (R3) Y.P. 11" dia. S 76° W 23' J.P. 17" DBH N 46° W 18.9', healed scar., (R2) Y.P. 8" dia.	P-515 \$ 04*10"15" E 107.64" \$ 04*14"00" E 107.49"	I.C. INCENSE CEDAR
W.F. 16" DBH N 69" W 55.6', heeled scar, (R2) W.F. 8" die. N 68" W 56.1'	N 48° W 19.1', (R3) Y.P. 6" dla. N 46° W 18.6"	P-516 \$ 14*10'02" E 40.25' \$ 14*14'30" E 40.20'	(HM) HILL MONUMENT: 5/8" STEEL PIN WITH 2 1/2" BRASS DISC PER (R3)
	(13) EDLIND STANDARD U.S.BLM BRASS CAP monument.	P-517 \$ 02*17'33" W 9.28' \$ 02*14'00" W 9.26'	MEASURED RECORD PER (R3)
Pleced disturbed 1 1/2" C.I.P. per RS 3-144 on Nw1/16+516	FROM WHICH BEARS:	P-518 S 39*44'44' W 45.98' S 39*41'00" W 45.92'	WC'-C N 02*19'29" E 64.51' N 02*18'20" E 64.55'
FROM WHICH EXISTING BEARING TREES BEAR:	Prine stump remnant 5.74*E 14.0°, (R1) Prine 60° dia: 5.70*E 11.9°, (R2) Prine 68° dia: 5.70*E 11.9°	P-519 \$80*41'02" W 134,68' \$80*37'00" W 134,49'	P-535
I.C. 11" DBH S 52" W 29.3",scrtbing visible W.F. 11" DBH N 86" E 45.5", heeled face	Stumphole N 12*E 40.3', (R1) Pine 30" dia. N 10*E 40.3' W.F. 27" DBH N 14*E 5.2', heeled scar, (R2) W.F. 16" dia. N 17*E 5.0'	P-520 S 65*40'08" W 200.00'\	P-536
S SET U.S.F.S. monument 25" in ground. CAP STAMPED: TI2N RIAE	W.F. 20" DBH N 89" W 11.1", heeled scar, (R2) W.F. 15" dla. S 89" E 11.2"	Line Marker \$ 65*40'08" W 156.91' S 65*36'10" W 356.46'	N 61*02'55" W 215.31" N 61*04'00" W 356.03"
Corner point falls in meadow area.	(14) Searched for WC-B and Bearing Trees, Nothing found.	P-521 S 55°10'18" W 180.79' S 55°06'20" W 180.56'	N 61°02'55" W 140.48' / P-537
FROM WHICH BEARS:	SEI 1" C.I.P. by single proportion between querter corner and WC'-C per (R3). BRASS CAP STAMPED: wc-e	P-522	N 34*24*48" W 154.82" N 34*26*00" W 154.93" P-538
1 1/2" C.I.P. per RS 3-144 S40*05'19" W 0.88' 1994 L.P. 8" DBH S 63* E 30.6', scribing visible	FROM WHICH BEARS: L\$38461994 WC-BC-Z N 89*31'46" W 208.79'	P-S23	N 61*31'22" W 262.75' N 61*32'30" W 262.92' P-539
W.F. 20" DBH S 85" W 63.9", scribing visible W.F. 28" DBH N 4" W 86.8", heeled face	(R3) WC-BC-Z N 89*36'45" W 208.25"	\$ 78"30'52" W 51.67' \$ 78"26'50" W 51.61' P-524	N 30°29'00" W 74.03' N 30°29'50" W 74.02' P-540
	15 FDUND chiseled 'X' on 12' x 5'x3' grentle rock for point WC-8C-Az.Mk.	N 82*07'47" W 40.57' N 82*11'00" W 40.51' P-525	N 47*00'55" W 86.04' N 47*02'00" W 86.10' WC'-525X
6) SET 2" x 30" slumknum-megnetic JAMESMOXLDS-LS 3846 survey monument with 3 1/4" cap stamped: TI2N R14E Dated 30" slit meet mount of the State	FROM WHICH BEARS: W.F. 27" DBH S 12" W 5.5', (R3) Pine 12" die. South 5.8'	N 71*03*27" W 179.25" N 71*07*30" W 179.02' P-526	N 52*41'02" E 87.09' N 52*41'00" E 87.10' WC'-526
FROM WHICH BEARS:	P.P. 37" DBH N 33" W 47.7", (R3) Fir 26" dia. N 35" W 47.7"	N 04*21'03" ₩ 12.10' N 04*27'00"W 12.08' P-527	N 21"56"11" E 560.38" N 21"59"20" E 560.05" P-543
1 1/2" C.i.P. per RS 3-144 N 68*40'49" W 1.30'	16 EDLIND (HM) in 24" dia. rock mound. DISC STAMPED: SHUD FROM WHICH BEARS: 1963	N 34*41'02" E 18.71' N 34*37'20" E 18.68' P-528	N 26*30'35" W 354.97" N 26*29'30" W 354.75" P-544
FOUND 1 3/4" Copperweld in 18" dis. rock mound. 1959 TISM RISE	J.P. 43" DBH S 52" W 43.8" WC-C	N 41*07'29" E 285.30' N 41*03'30" E 284.93' P-529	N 19"53"53" W 29,14" N 19"52"10" W 29,13"
Copperweld stamped: 1/4 517   516 FROM WHICH BEARS: SHUO	(R3) Pine 32" die. \$ 50" W. 43.5" WC-BC-Z \$ 89"34'27" E 127.30"	N 36*57'25" E 99.16' N 36*53'30" E 99.04' P-530	P-545 N 71*12'17" W 312.53' N 71*11'10" W 312.34'
P.P. 49" DBH N 1" W 17.7", healed scar, RCE 5438 (R3) Y.P. 33" dia. North 16.1"	(R3) WC-8C-Z S 89°36'45" E 127.41"	N 55*06:44" E 93.06' N 55*02'40" E 92.94'	D=102*38'05" R=200.18" D=102*38'00" R=200' P-546
P.P. 39" DBH N 69" W 91.5", scribing visible,	(17) Corner point fells in Union Velley Reservoir. Position for corner calculated by projected single proportion between 1/4 17 16 and WCF.	P-531 N 28*25'55" E 186.87' N 28*22'00" E 186.63'	\$ \$7°26'02" W 19.74" \$ \$7°29'50" W 19.73" P-547
(HM1) In 24" dia. rock mound \$ 02"35'27" E 432.81'. WCD	, ,	P-532 N 01*54'08" E 254.79' N 01*50'10" E 254.46'	N 54*36'00" W 11.72' N 54*35'00" W Line Marker
(R3) 5 02*36'03" E 432.94' Disc stamped: R0E5438	NOTE: BEARING TREE REFERENCES ARE TRUE NORTH.	P-533 N 02*22'20" E 250.77' N 02*18'20" E 250.44'	
B) SET U.S.F.S. monument 2.4" In ground. CAP STAMPED: 1124 R146		WC'-C	
Placed disturbed 1 1/2" C.I.P. per RS 3-144 on W1/16 South side of monument Retsed 24" dia cock mound C→C		REFERENCES:	BASIS OF BEARINGS:
FROM WHICH BEARS: S16 LS 3848		(R1) GOVERNMENT FIELD NOTES – J.M. ANDERSON, 1874 (R2) GOVERNMENT REMONUMENTATION NOTES, 1962–63	THE MERIDIAN OF THIS SURVEY IS LAMBERT GRID ZONE 2 DETERMINED FROM RS 1-167 (R3)
W.F. 14" DBH S 46" W 29.0", normbing visible 1994 W.F. 15" DBH N 56" W 30.3", scribing visible		(R3) RS 1-167 (DISTANCES HAVE BEEN DIVIDED BY 0.9996820 TO OBTAIN GROUND DISTANCES)	ALONG EAST-WEST CENTERLINE SECTION 16. SEE NOTE THIS SHEET.
1 1/2" C.I.P. per RS 3-144 \$ 32*20'42" W 0.84"		(R4) RS 10-85	21-41 A
21-41 A			SHEET 2 OF 2
21-41 A			SHEET 2 OF 2

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
CONTINUATION SHEET

Primary # P-9-2523-H HRI # Trinomial # CA-ELD-1667-H

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\*Resource Name or # (Assigned by recorder) Palmer-Swift Cabin

\*Recorded by: Dana E. Supernowicz

\*Date June 26, 2024

☐ Continuation

**☒** Update

This updated site record is intended to expand information and current conditions related to two previous DPR site records prepared on August 13, 1980 and later in August 7, 1996 by Krista Deal. According to Deal (1996) when she was employed by the Eldorado National Forest (Figure 1). Deal's observation of the property while she was employed by the Eldorado National Forest, included scant remains of what she described as hand-hewn and notched logs, barbwire, a stove pipe, and wooden fence posts. The cabin, which is the only standing building within the former Palmer Ranch, is best described as having post and beam construction, with a bump out or later addition along its west elevation, 36" rived shake exterior wall cladding, single-wall interior construction, wood floors, a mud-sill foundation, a second-story loft, and a corrugated metal roof. The front door to the cabin building of milled lumber appears to be original, although parts of the cabin have clearly been rebuilt, which is common given extreme winter weather and natural deterioration.

SEP - 9 2024

BLOORADO COUNTY
PLANNING AND BUILDING DEPARTMEN

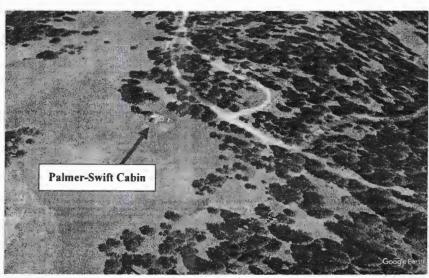


Figure 1: Aerial Photograph looking north at the Palmer-Swift Cabin.

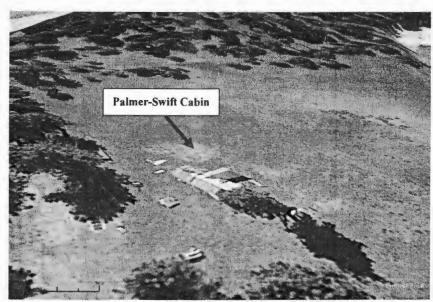


Figure 2: Aerial Photograph looking southeast at the Palmer-Swift Cabin.

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\*Date June 26, 2024

☐ Continuation

The historic context of the project area is directly linked to the gold rush of the 1850s, as well movement of livestock from the valley floor into the Sierra Nevada Mountains beginning in the 1860s, in part as a result of prolonged drought. The Georgetown-Virginia City Emigrant-Wagon Road ran northwest to southeast near the project area (Figure 2). Historic records, including maps, suggest that William Madison Palmer (1821-1895) the individual who located and developed the project location, resided in the Georgetown Township by at least 1860, since he was appointed as the Township Officer the same year (Ancestry Website 2024; *Mountain Democrat*, Newspaper, November 14, 1860). Thus, it is reasonable to assume that during the 1860s, Palmer may have begun to make improvements on the subject property adjacent to present-day Union Valley Reservoir, and in 1889 he succeeded in getting preemption rights from the federal government. This was only the beginning of Palmer's land acquisitions that eventually totaled in the thousands of acres.

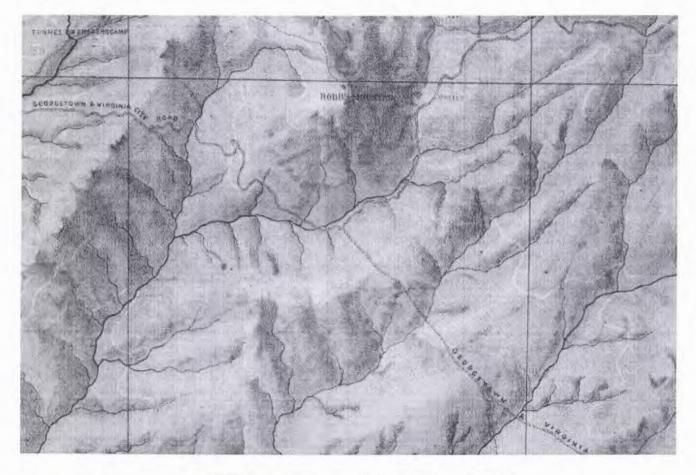


Figure 2: Map of the Georgetown Divide 1873 (Amos Bowman).

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☐ Continuation ☒ Update

Prior to 1875, when the General Land Office prepared the Section map for the project township, William M. Palmer had already constructed a house, milk house, and barn in Section 16 (Figure 3). The exact location of the milk house and barn were not reidentified during the course of the field survey. As illustrated in Figure 3, Palmer also built several fences that kept livestock from escaping. The 1875 map in Figure 3 illustrates that a "meadow" lay to the northwest of his mountain ranch. According to the 1880 United States Federal Census and other data, William Madison Palmer appears to have emigrated from his home state of North Carolina to California during the gold rush (United States Federal Census, Mud Springs, El Dorado County, California 1880). By 1895, based upon the official map of El Dorado County, William M. Palmer, Serena B. Palmer, and Bullard, had acquired lands in Sections 16, 17, 20, and 21. William M. Palmer's ranch buildings were located within the south ½ of Section 16 (Figure 4).

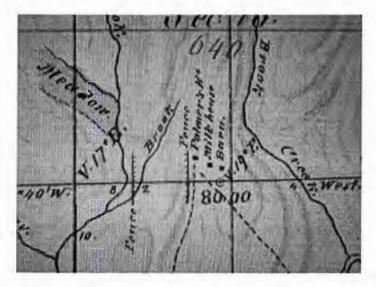


Figure 3: 1875 General Land Office Survey Map of Palmers Ranch and the project area.

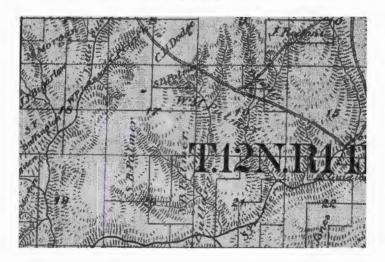


Figure 4: Official Map of El Dorado County 1895 showing lands owned by S.B. and W.M. Palmer (Library of Congress).

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\*Date June 26, 2024

☐ Continuation

**☒** Update

It seems reasonable to assume that William M. Palmer built all the improvements on the subject parcel in the 1860s-1880s. According to census data, in 1870, William M. Palmer married Eliza Rose Cowie (1827-1877), widow of Henry Calhoun Bullard (1825-1864). Eliza Cowie Bullard had emigrated from Scotland, married Henry Calhoun Bullard on December 20, 1854 in Mud Springs and had four children from her marriage to Bullard: George Monroe Bullard (1855-1905), Thomas Edward Bullard (1859-1945), Elizabeth Leah Bullard (1859-1870), and James Henry Bullard (1860-1939) (Ancestry Website 2024). After the death of Eliza Rose Cowie in 1877, Palmer married Serena Bullard (nee Elder). After Palmer's death on November 3, 1895, Serena married James Henry Bullard, the son of Henry Calhoun Bullard and Eliza Rose Bullard (nee Cowie). William Madison Palmer apparently had no children of his own and was buried near his ranch in Shingle Springs.

The 1900, the United States Federal Census enumerates Serena Bullard, aged 44 years, as having been born in Tennessee in July 1855, living in Mud Springs (El Dorado), and married to James H. Bullard, aged 45 years. The Bullards had three servants living with them on their ranch in Mud Springs: Kate, a cook, aged 60 years, born in Ireland; Leon, a farm laborer, aged 19 years; and Cela, a servant, aged 9 years, of Native American descent (United States Federal Census, Mud Springs, El Dorado County, California, 1900). Serena died in 1904 in her ranch in Mud Springs and was buried in Sacramento. She left her estate to her husband James Bullard.

Prior to Serena's death, she filed with the General Land Office and in the *Mountain Democrat* newspaper on October 10, 1901 for a portion of Section 21 (Figure 5), the newspaper noting that the land was codified as "Timber Land" as opposed to it being primarily suitable for agriculture. Based upon a review of General Land Office records, the southern tip of the project lying within Section 21, was formally acquired by Serena Bullard through a "cash sale entry" for 160 acres on July 26, 1904, three years after filing for a Timber Land Act purchase. Following Serena's death, the property was passed on to James Bullard, who sold the property to Alexander Felix "Alex" Forni who was born in El Dorado County in 1872. Alex's father was among a handful of Italian-Swiss immigrants from the Ticino region in the Italian-speaking part of Switzerland who came to California in the 1860s and settled in El Dorado County. On January 7, 1941, and following the death of Alex Forni in 1927, Alex's wife Nettie, sold the property around present-day Union Valley Reservoir to Rufus S. and Sarah Swift, including Section 16, where the Palmer Ranch building and proposed building site is located (Grant Deed, January 7, 1941, Courtesy of Michael Kuhl). The Palmer Ranch today is still owned by Swift family members, although other portions of the ranch have sense been sold (Personal communication: Michael Kuhl, June 2024). Throughout the following decades Swift family members made little or no major changes to the improvements within project location, the cabin built by Palmer in the circa 1860s still stands to this day.

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\*Date June 26, 2024

Continuation

□ Update

# Timber Land Notice.

United States Land Office.

Sacramento, California, September 18th, 1901. Notice is hereby given that in compliance with the provisions of the act of Congress of June 3, 1878, entitled "An act for the sale of timber lands in the States of California, Oregon, Nevada, and Washington Territory, as extended to all the Hubble Land States by act of August 4, 1892 Serena Bul Shingle, county of El Dorado, State of fornia, has this day filed in this office her sworn statement No. 1639, for the purchase of the SW% of SW%, Sec. 15: N% of NE% of Sec. 21: and NW14 of NW14 of Section No. 22 in Township No. 12 N., Range No. 14 E., Mt. D. M., and will offer proof to show that the land sought is more valuable for its timber or stone than for agricultural purposes, and to

She names as witnesses: C. L. Eklon of Foisom P. O., Robert Blakely of Placerville P. O., Teleo Guidici of Garden Valley P. O., R. V. Clark of Coloma P. O., Cal.

establish her claim to said land before the Register and Receiver of this office at Sacramento, Cal., on Saturday, the 30th day of No-

Any and all persons claiming adversely the above-described lands are requested to file their claims in this office on or before said 30th day of November, 1901. THOMAS FRASER,

Figure 5: General Land Office filing by Serena Bullard (Mountain Democrat, Newspaper, October 10, 1901).

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\*Resource Name or # (Assigned by recorder) Palmer-Swift Cabin

\*Recorded by: Dana E. Supernowicz

\*Date June 26, 2024

☐ Continuation 🗵

□ Update



Photograph 1: Palmer-Swift Cabin, 1959 (Courtesy of Michael Kuhl).



Photograph 2: Cattle grazing in the meadow near the Palmer-Swift Cabin before the valley floor was inundated by the Union Valley Reservoir (Courtesy of Michael Kuhl).

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\*Resource Name or # (Assigned by recorder) Palmer-Swift Cabin

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Photograph 3: View looking west at the Palmer-Swift Cabin.



Photograph 4: View looking north east at the west elevation of the cabin.

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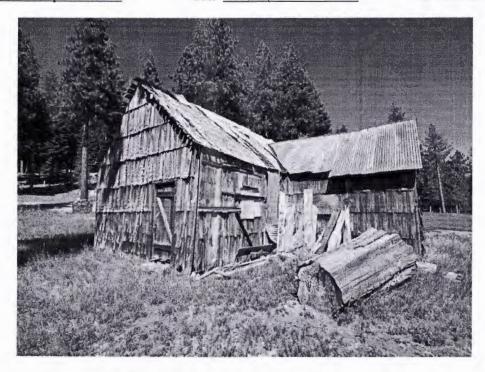
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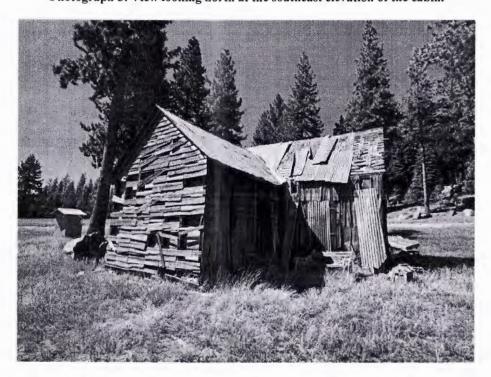
\*Resource Name or # (Assigned by recorder) Palmer-Swift Cabin

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\*Date June 26, 2024



Photograph 5: View looking north at the southeast elevation of the cabin.



Photograph 6: Another view looking north at the southeast elevation of the cabin.

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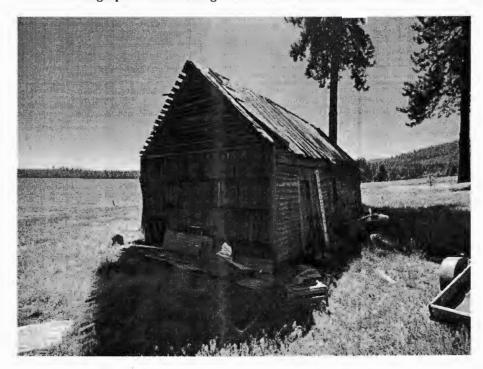
\*Resource Name or # (Assigned by recorder) Palmer Swift Cabin

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\*Date June 26, 2024



Photograph 7: View looking west at the east elevation of the cabin.



Photograph 8: View looking southwest at the northeast elevation of the cabin.

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\*Date June 26, 2024



Photograph 9: Close-up of the front door of the cabin.

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\*Resource Name or # (Assigned by recorder) Palmer-Swift Cabin

\*Recorded by: Dana E. Supernowicz

\*Date June 26, 2024

☐ Continuation ☒ Update

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# Resource Agency

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\*Resource Name or # (Assigned by recorder) Palmer-Swift Cabin

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□ Continuation

□ Update

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USGS Placerville Sheet 1887.

El Dorado County Soils Map 1925





SEP - 9 2024

# EL DORADO COUNTY PLANNING AND BUILDING DEPARTMENT

Mr. Michael Kuhl

July 31, 2024

Subject:

Environmental Compliance Documentation for the Union Valley Residential Construction

Project

Dear Mr. Kuhl:

Sierra Ecosystem Associates (SEA) is pleased to submit the following environmental compliance documentation for the Union Valley Residential Construction Project:

- Draft Biological Resources Report
- Draft Preliminary Wetland Delineation Report

Please review the attached documents and advise us as to any necessary changes or if you have any questions. If there are no changes to the enclosed or if you have suggested changes, we will finalize the reports for you to submit to El Dorado County.

Thank you for this opportunity to assist you with this Project. Please feel free to contact me if you have any questions on the above or enclosed.

Sincerely,

**Jeremy Waites** 

Jany Want

#### Attachments:

- Draft Biological Resource Report
- Draft Preliminary Wetland Delineation Report

**CUP24-0011** 

# BIOLOGICAL REPORT KUHL RESIDENTIAL STRUCTURE CONSTRUCTION PROJECT

Prepared by:



Sierra Ecosystem Associates

1024 Simon Drive, Suite H Placerville, CA 95667

For:

Michael Kuhl APN: 011-030-058, 011-030-055

DRAFT REPORT

**JULY 31, 2024** 

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# **LIST OF APPENDICES**

Appendix A Photographs
Appendix B Species List

#### 1.0 PROJECT DESCRIPTION

The residential structure construction Project (Project) involves building a proposed residential structure, septic area, fire hydrant, a turnout, and solar arrays. The property already has an existing shed, driveway, well, water tank, and roads. The Project area is shown in Figure 1.

# 1.1 Project Setting

The Project is located on the north shore of Union Valley Reservoir at approximately 5,000 feet elevation. The Project area consists of mostly upland mixed conifer with a meadow to the west and a meadow on the eastern boundary 2,000 feet to the north of the proposed construction site. The meadows are fed by snowmelt in the spring and groundwater throughout the summer and fall and flow into Union Valley Reservoir. The overstory consists of fir and pine species with a mix of incense cedar, black oak, and Douglas fir. A complete species list is shown in Appendix B.



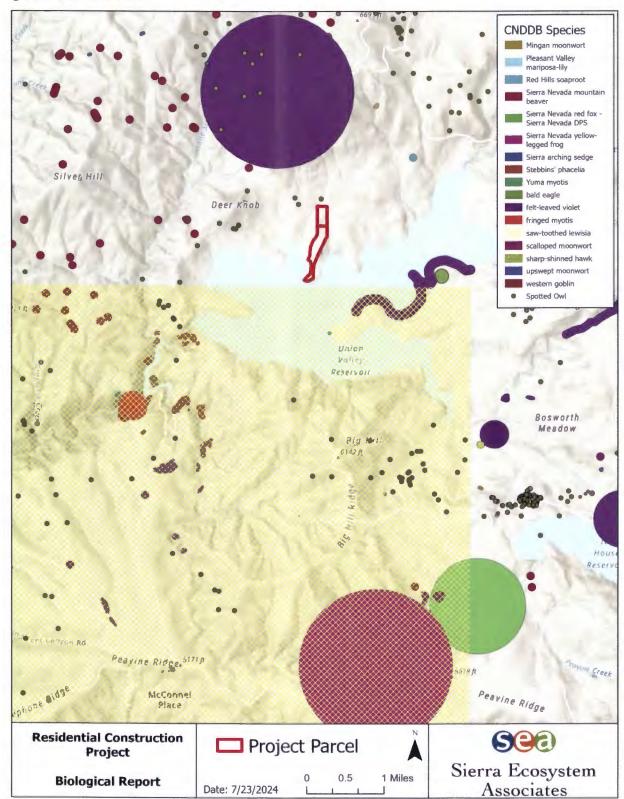
#### 2.0 METHODOLOGY

Development of this biological report involved: 1) a desktop evaluation, and 2) a field survey. The methodology for each is described below.

# 2.1 Desktop Research

Prior to the site visit, preparatory desktop research work was completed using Site Plans and parcel boundaries provided by El Dorado County and high-resolution imagery (dated June 2024). A review of current databases maintained by CDFW was also performed to identify special-status species that could occur on the Project site (CDFW 2024). The CNDDB search covered a 5-mile radius around the Project site and is shown in Figure 2. Table 1 summarizes the species identified in this focused query.

Figure 2. CNDDB Search



**Table 1. CNDDB Species** 

Common Name	Scientific Name	Federal Listing	California Listing	Rare Plant Rank	CDFW Status
bald eagle	Haliaeetus leucocephalus	Delisted	Endangered		
Sierra Nevada yellow- legged frog	Rana sierrae	Endangered	Threatened		Watchlist species
Sierra Nevada mountain beaver	Aplodontia rufa californica	None	None		Species of special concern
Mingian moonwort	Botrychium minganense	None	None	4.2	
Pleasant Valley Mariposa lily	Calochortus clavatus var. avius	None	None	1B.2	
Red hills soaproot	Chlorogatum grandiflorum	None	None	1B.2	
Sierra Nevada Red Fox	Vulpes vulpes necator pop. 2	Endangered	Threatened		
Sierra arching sedge	Carex cyrtostachya	None	None	1B.2	
Stebbins phacelia	Phacelia stebbinsii	None	None	1B.2	
Yuma myotis	Myotis yumanensis	None	None		
Felt leaved violet	Viola tomentosa	None	None	4.2	
Saw toothed lewisa	Lewisia serrata	None	None	1B.1	
Scalloped moonwort	Botrychium crenulatum	None	None	2B.2	
Upswept moonwort	Botrychium ascendens	None	None	2B.3	
Western goblin	Botrychium montanum	None	None	2B.1	
Spotted owl	Strix occidentalis	None	None		
Fringed myotis	Myotis thysanodes	None	None		
sharp-shinned hawk	Accipiter striatus	None	None		Watchiist species

# 2.2 Pedestrian Field Survey

Sierra Ecosystem Associates, Inc. (SEA) staff Senior Ecologist, Jeremy Waites, Environmental Scientist Summer Abel, and Assistant Environmental Scientist Aria Pauling completed a pedestrian field survey on June 20, 2024 and June 21, 2024. The survey consisted of a floristic botanical survey, nesting raptor and migratory bird survey, and habitat analysis of the Project site. The focus of the survey was to analyze habitat characteristics and to assess if any threatened, endangered, or special status (TES) plants or animals would be affected by Project activities. The Project area including the proposed building location was surveyed and all plant and animal species observed were recorded. Pictures were taken of plant occurrences as well as the overview of the site and are included in Appendix A. A wetland delineation was also completed to map the existing wetlands within or near the Project site.

#### 3.0 RESULTS BASED ON DESKTOP EVALUATION AND SURVEY

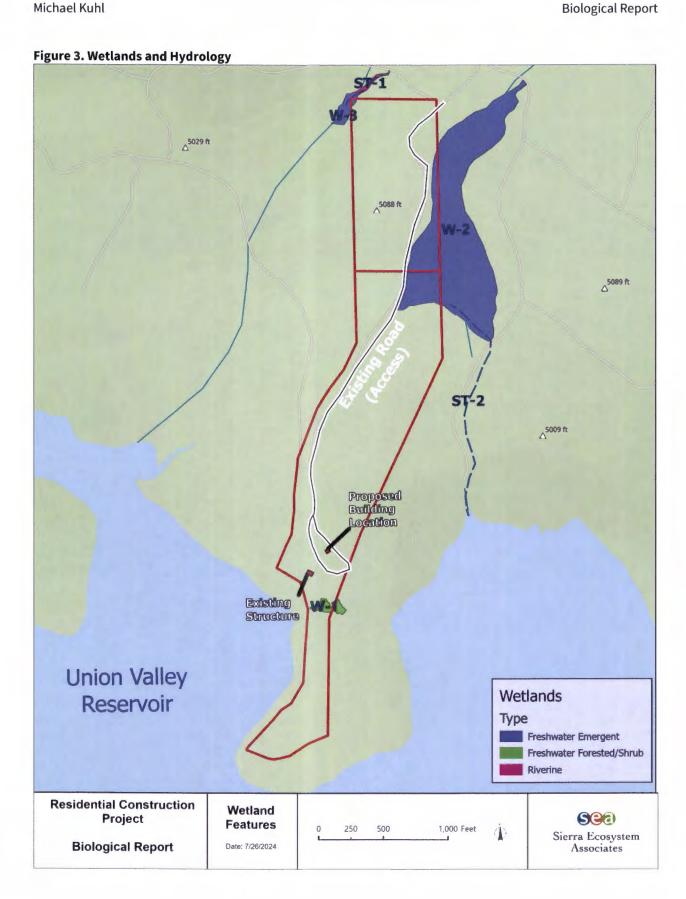
The following sections describe the information that was gathered from the desktop searches and the June 2024 field survey. These sections also provide details on Project impacts and the specific habitat characteristics for potential TES species that are present in the vicinity of the Project site. TES species, which are listed in Table 1, are plants and animals that historically occur in the surrounding area and those with potential habitat.

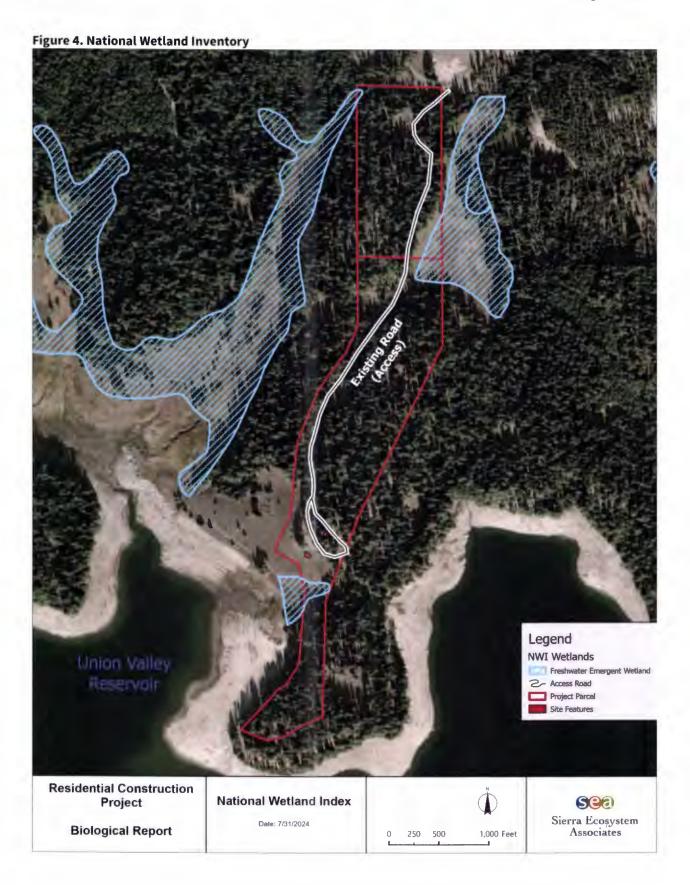
#### 3.1 Wetland Features

The wetland and hydrological features from the National Wetland Inventory and the National Hydrology Dataset (USFWS 2024) are shown in Figure 3. Overland flow is generally from north to south. Two streams (ST-1, ST-2) shown in Figure 3 are on either side of the Project. Both flow through meadows and empty into Union Valley Reservoir.

Following completion of the field assessment, delineated features of the wetland differ from those defined by the NWI. NWI wetland data is presented in Figure 4. Specifically, based on the field survey data, the wetlands extend farther and the most southern wetland (W-1) is more complex. W-1 has many wetland plant species, but trends to more upland invasive plant species in the later drier season. The NWI dataset classifies the wetlands within the study area as: Emergent Wetland but also contains Forested Shrub Wetland and Riverine.

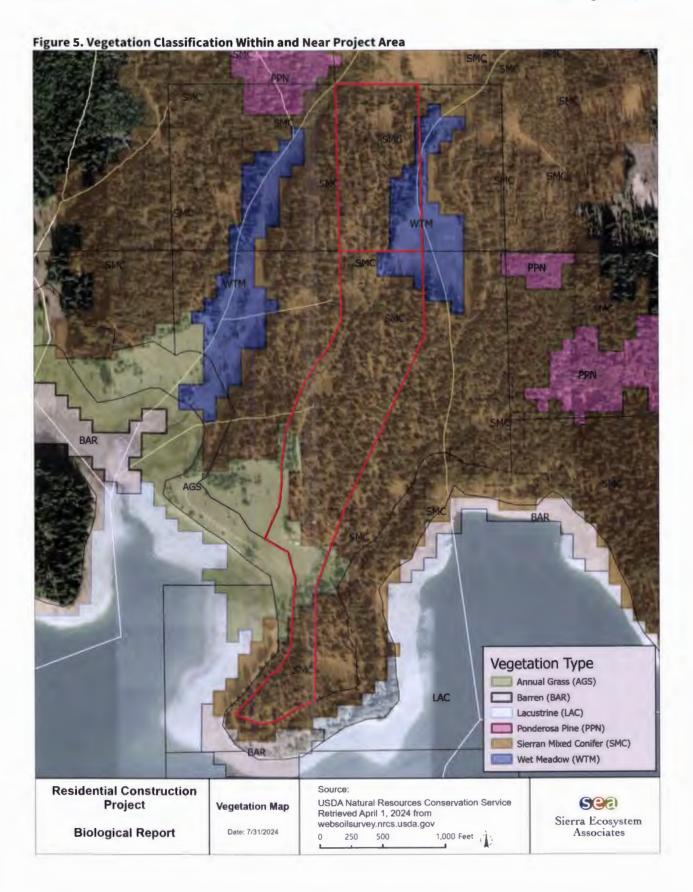
Michael Kuhl





# 3.2 Vegetation Classification

There are numerous vegetation classification schemes for California, which have been developed by various agencies and ecologists for several user groups. The California Wildlife Habitat Relationship (CWHR) system was developed by CDFW to predict the habitat value for vertebrate animal species in California (CWHR 2024). Figure 5 shows the vegetation classification of the Project area according to the CWHR system. Although the data shown in Figure 5 is coarse, the vegetation types displayed are consistent with observations of vegetation types identified during the pedestrian field survey. The Project area mainly consists of Sierran mixed conifer with some wet meadow and annual grass classification.



## 3.3 Soils

The Project is in the USDA Land Resource Region (LRR) 22A, Sierra Nevada Mountains, which is characterized by hilly to steep mountain relief and occasional mountain valleys.

The NRCS Soil Survey indicates that there are four soil series within the study area (see Figure 6). The following description is summarized from the USDA NRCS Custom Soil Resource Report (NRCS 2024).

**Table 2. Soil Series in Study Area** 

Map Unit Name	Acres in Parcel	Percent of Parcel
Aquepts and Umbrepts 0 to 15 percent slopes	6.95	10.6%
Pilliken coarse sandy loam, 5 to 30 percent slopes	58.83	89.4%



#### 4.0 DISCUSSION

The following section provides details on Project impacts and the specific habitat characteristics for potential TES species that are present in the vicinity of the CMT treatment sites. TES species, which are listed in Table 1, are plants and animals that historically occur in the surrounding area and those with potential habitat.

#### 4.1 Plants

# Mingan Moonwort (Botrychium minganense)

Mingian Moonwort typically grows in soils with high concentrations of lime. The species can be found in or near streambanks, open fields and meadows. Habitat exists in meadows nearby but not within the Project site. Project activities are not likely to cause impacts to this species.

# Pleasant Valley mariposa-lily (Calochortus clavatus var. avius)

Endemic to Central California and found on dry, rocky slopes, chaparral, and open fields, typically in elevations less than 4,200 feet. Habitat is poor within the treatment areas with limited bare exposed areas, and at a higher elevation than the species are typically found. Project activities are not likely to cause impacts to this species.

#### Red Hills soaproot (Chlorogalum grandiflorum)

Red Hills soaproot is found in chapparal, woodland, and forested areas on gabbro and serpentine soils. This habitat is not present within the Project area. Project activities are not likely to cause impacts to this species.

## Sierra arching sedge (Carex cyrtostachya)

Sierra arching sedge is found in wet meadows, marshes, seasonally wet outcrops, and riparian margins. Some habitat is present in meadows nearby, with little habitat present within the project area. Project activities are not likely to cause impacts to this species.

#### Stebbins' phacelia (Phacelia stebbinsii)

Stebbins' phacelia is endemic to Central and Northern California and found in rocky soils in forests and open meadows. Some habitat may be present nearby, but there are not many dry, rocky soils within the Project site to support this species. Project activities are not likely to cause impacts to this species.

#### felt-leaved violet (Viola tomentosa)

Felt-leaved violet is endemic to central Sierra Nevada and can be found in dry, open, coniferous forests with gravelly soils. Habitat is poor within the Project area with limited bare exposed areas and gravelly soils. Project activities are not likely to cause impacts to this species.

# Saw-toothed lewisia (Lewisia serrata)

Saw-toothed Lewisia is found in shady, moist, rocky canyon and ravine walls. This habitat is not present within the Project area. Project activities are not likely to cause impacts to this species.

# <u>scalloped moonwort</u> (<u>Botrychium crenulatum</u>)

Scalloped moonwort is found sporadically in wet environments, including meadows in coniferous forests and subalpine regions, and marshes. They are typically found in elevations between 3,800 and 9,200 ft. Some habitat may exists in nearby meadows, but habitat is poor within the Project area. Project activities are not likely to cause impacts to this species.

# upswept moonwort (Botrychium ascendens)

Upswept moonwort is present in Northern California can usually be found in moist environments near riversides or in lowland meadows. Some habitat may exist in nearby meadows, but habitat is poor within the Project Area. Project activities are not likely to cause impacts to this species.

# Western goblin (Botrychium montanum)

Western Goblin is found in California usually in moist, dark understories of coniferous forests in soils with a high organic matter content. Habitat is poor within the Project area but exists in nearby meadows. Project activities are not likely to cause impacts to this species.

#### 4.2 Animals

#### Sierra Nevada mountain beaver (Aplodontia rufa californica)

The Sierra Nevada Mountain beaver is a CDFW Species of Special Concern. Sierra Nevada mountain beavers occur in dense riparian-deciduous and open, brushy stages of most forest types. Typical habitat in the Sierra Nevada is montane riparian with frequent open and intermediate-canopy coverage with a dense understory near water. Deep, friable soils are required for burrowing, along with a cool, moist microclimate (Beier 1989). This type of habitat is present adjacent to nearby meadows. Project activities would not occur near these habitat locations and are not likely to cause impacts to this species.

#### Sierra Nevada red fox (Vulpes vulpes necator pop. 2)

Sierra Nevad red foxes are found in alpine and barren areas, subalpine forests, red fir forests, lodgepole pine forests, and mixed conifer forest. They are usually found above 7,000 feet. There is little of this habitat present within the Project area, and red foxes are generally found at a higher elevation. Project activities are not likely to cause impacts to this species.

## <u>Sierra Nevada yellow-legged frog (Rana sierrae)</u>

The Sierra Nevada yellow-legged frog is federally listed as endangered and listed as threatened

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in California. This amphibian inhabits lakes, ponds, meadow streams, isolated pools, and sunny riverbanks in the Sierra Nevada Mountains. Waters that do not freeze to the bottom or dry up are required. It prefers open shorelines that gently slope up to shallows of a few inches (CalHerps 2017). Habitat for this species is very poor in the Project area and most water sources do not stay wet or unfrozen year-round. Project activities are not likely to cause impacts to this species.

# Yuma myotis (Myotis yumanensis)

Yuma myotis are found in forests, riparian zones, grassland and deserts. This species also likes to be near rivers, streams, ponds, and lakes. Habitat like this is present in meadows and lakes outside of the Project area but not within the Project area boundaries. Project activities are not likely to cause impacts to this species.

# fringed myotis (Myotis thysanodes)

Fringed myotis are typically found in dry environments throughout open grasslands and mature ponderosa, oak and pinyon-juniper forests. There is no habitat near or in the Project area to support this species. Project activities are not likely to cause impacts to this species.

# Bald eagle (Haliaeetus leucocephalus)

The Bald eagle is listed as endangered in California. Bald eagles forage in large bodies of water. They typically nest in large trees adjacent to a body of water. Nesting occurrences are common nearby on Union Valley Reservoir as there are large trees and snags that may offer potential nesting sites. No nesting raptors were found during the field survey. Project activities are unlikely to adversely impact this species as no trees are being removed or disturbed.

#### <u>Sharp-shinned hawk (Accipiter striatus)</u>

Sharp-shinned hawk is a CDFW Watchlist Species. Sharp-shinned hawks can be found in mixed or coniferous forests, open deciduous woodlands, thickets, and edges. They usually nest in groves of coniferous or deciduous trees with brush or clearings nearby (Sulivan 1994). The adjacent Jeffrey pine and ponderosa forests surrounding may offer potential nesting sites, but Project activities are unlikely to adversely impact this species.

#### <u>Spotted owl (Strix occidentalis)</u>

Habitat includes old growth forests and, in California, oak woodlands and forested canyons. The adjacent Jeffrey pine and ponderosa forests surrounding may offer potential nesting sites, but treatment activities are unlikely to adversely impact this species.

**Biological Report** Michael Kuhl

#### 5.0 CONCLUSION

No raptors or migratory birds were observed nesting during the field survey. No nests from previous years were observed. No occurrences of threatened, endangered, or other special status species were observed during the field survey.

The CNDDB database search found that most special status plants and animals prefer habitat within meadows or coniferous forests that exist within 5 miles of the Project. Based on the existing conditions of the Project area, there is very little wetland habitat or year-round water to support these species. Some meadow habitat is present nearby but is outside of the Project area. Species that are most likely to occur are nesting raptors and migratory birds. Because project activities do not include the removal of trees or shrubs that provide suitable nesting habitat, and because no evidence exists of current/past nesting in the Project vicinity, neither nesting raptors nor migratory birds are likely to be impacted.

Page 16

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  [2024, July 24].

## 7.0 REPORT AUTHORS

The following individuals prepared the text presented in this analysis.

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Jeremy Waites Arborist/GIS Specialist – Co-author

Summer Abel Environmental Scientist – Primary Author

Rayann La France Administrative Services Manager – Editor and Document Production

# **Appendix A**

**Project Photos** 

Photograph 1. View from the bike trail facing the Project site showing the existing structure



Michael Kuhl

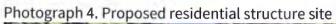
Biological Report



Sierra Ecosystem Associates Biological Report

Photograph 3. View of existing road and septic tanks to be installed







Photograph 5. Overview of the northeastern wetland



Photograph 6. The stream running through the northwestern part of the Project site



Sierra Ecosystem Associates Biological Report

# **Appendix B**

# **Species List**

Scientific Name	Common Name
Abies concolor	White fir
Abies magnifica	California red fir
Achillea millefolium	Yarrow
Agrostis pallens	Diego bent grass
Agrostis scabra	Rough bentgrass
Alnus incana	Creek alder
Amelanchier utahensis	Pale leaved serviceberry
Anaphalis margaritacea	Pearly everlasting
Apocynum androsaemifolium	Spreading dogbane
Aquilegia formosa	Columbine
Arctostaphylos nevadensis	Pine mat manzanita
Arctostaphylos patula	Green leaf manzanita
Arctostaphylos patula	Green leaf manzanita
ArtemBistorta bistortoides	American bistortisia
Asarum lemmonii	Lemmon's wild ginger
Bromus tectorum	Downy chess
Calocedrus decurrens	Incense cedar
Carex fracta	Fragile sheathed sedge
Ceanothus cordulatus	Mountain whitethorn
Ceanothus integerrimus	Deer brush
Chamerion angustifolium	Fireweed
Chlorogalum pomeridianum	Amole
Cirsium vulgare	Bullthistle
Cirsium vulgare	Bullthistle
Collomia grandiflora	Large flowered collomia
Corallorhiza striata	Striped coral root
Cornus nuttallii	Mountain dogwood
Cornus sericea	Red osier dogwood
Elymus elymoides	Squirrel tail grass
Elymus glaucus	Blue wild rye
Equisetum arvense	Common horsetail

Erythranthe guttata	Seep monkey flower
Festuca rubra	Red fescue
Fragaria vesca	Wild strawberry
Galium bolanderi	Bolander's bedstraw
Goodyera oblongifolia	Rattlesnake plantain
Hackelia micrantha	Jessica's stickseed
Heracleum maximum	Common cow parsnip
Hieracium albiflorum	White flowered hawkweed
Hordeum brachyantherum	Meadow barley
Hosackia oblongifolia	Narrow leaved lotus
Hypericum perforatum	Klamathweed
Juncus balticus	Wire rush
Lactuca serriola	Prickly lettuce
Lonicera conjugialis	Purpleflower honeysuckle
Lupinus fulcratus	Green stipuled lupine
Madia elegans	Common madia
Monardella sheltonii	Shelton's coyote mint
Pedicularis semibarbata	Pine woods lousewort
Penstemon newberryi	Mountain pride
Pinus contorta	Lodgepole pine
Pinus jeffreyi	Jeffrey pine
Pinus lambertiana	Sugar pine
Pinus ponderosa	Yellow pine
Potentilla flabellifolia	Fan leaved cinquefoil
Pseudotsuga menziesii	Douglas fir
Pteridium aquilinum	Western bracken fern
Pterospora andromedea	Pine drops
Quercus kelloggii	California black oak
Rhododendron occidentale	Western azalea
Ribes nevadense	Mountain pink currant
Ribes roezlii	Sierra gooseberry
Rosa californica	California wild rose
Rumex acetosella	Sheep sorrel
Sambucus mexicana	Elderberry
Senecio integerrimus	Lambstongue groundsel
Senecio triangularis	Groundsel
Sidalcea glaucescens	Glaucous checker mallow
Sisyrinchium bellum	Blue eyed grass
Stipa occidentalis	Common western needle grass
Symphoricarpos albus	Common snowberry
Taraxacum officinale	Red seeded dandelion

Tragopogon dubius	Goat's beard
Veratrum californicum	California corn lily
Verbascum thapsus	Woolly mullein
Viola purpurea	Goosefoot violet



## **RECEIVED**

SEP - 9 2024

Mr. Michael Kuhl

EL DORADO COUNTY
PLANNING AND BUILDING DEPARTMENT

July 31, 2024

Subject:

Environmental Compliance Documentation for the Union Valley Residential Construction

Project

Dear Mr. Kuhl:

Sierra Ecosystem Associates (SEA) is pleased to submit the following environmental compliance documentation for the Union Valley Residential Construction Project:

- Draft Biological Resources Report
- Draft Preliminary Wetland Delineation Report

Please review the attached documents and advise us as to any necessary changes or if you have any questions. If there are no changes to the enclosed or if you have suggested changes, we will finalize the reports for you to submit to El Dorado County.

Thank you for this opportunity to assist you with this Project. Please feel free to contact me if you have any questions on the above or enclosed.

Sincerely,

Jeremy Waites

Jany Want

#### Attachments:

- Draft Biological Resource Report
- Draft Preliminary Wetland Delineation Report

**CUP24-0011** 

## **DRAFT**

## PRELIMINARY WETLAND DELINEATION REPORT

KUHL RESIDENTIAL STRUCTURE CONSTRUCTION PROJECT



Prepared for:

Michael Kuhl APN: 011-030-058, 011-030-055 Prepared by:



Sierra Ecosystem Associates

1024 Simon Drive Placerville, CA 95667

**JULY 31, 2024** 

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Photographs from Data Collection

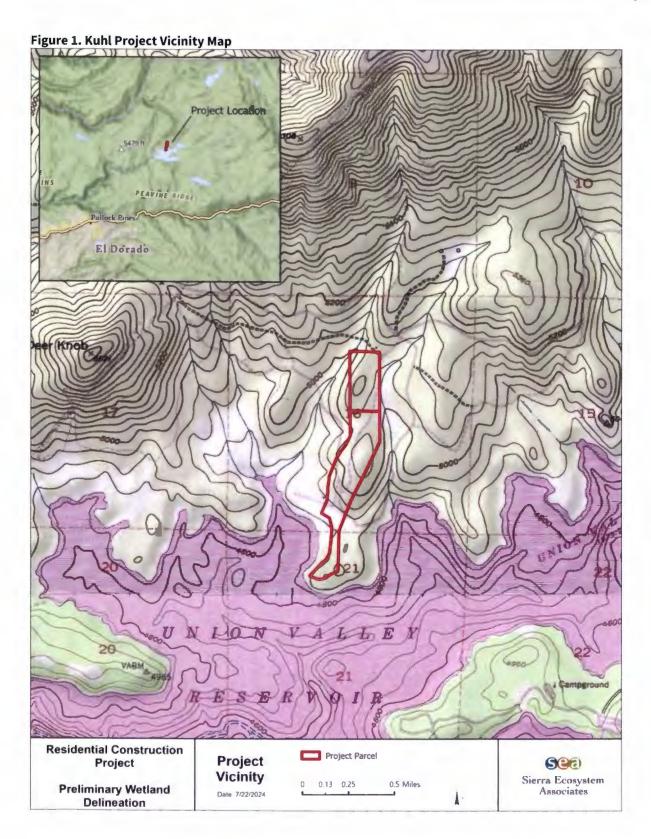
Appendix B

#### 1.0 INTRODUCTION

This document represents a preliminary wetland determination and delineation subject to verification by the U.S. Army Corps of Engineers (USACE). The Preliminary Wetland Delineation (PWD) report describes the existing wetland resources within and near an area identified for a residential construction project on the north shore of Union Valley Reservoir. The PWD consisted of a desktop database review and field data collection in the Project area. The report presents determination of the location of wetland boundaries and includes several maps identifying wetland features of the area including streams and wetlands based on vegetation, soil, and hydrology characteristics.

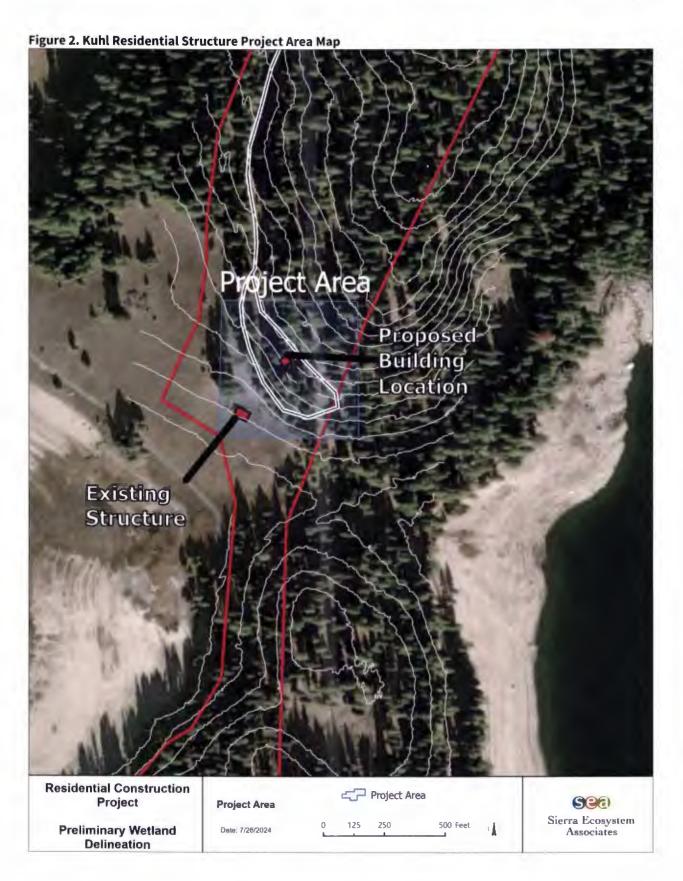
## 1.1 Setting

The residential structure construction Project (Project) is located on the north shore of Union Valley Reservoir at approximately 5,000 feet elevation. The Project area consists of mostly upland mixed conifer with a meadow to the west (M-1) and a meadow (M-2) on the eastern boundary 2,000 feet to the north of the proposed construction site. The meadows are fed by snowmelt in the spring and groundwater throughout the summer and fall and flow into Union Valley Reservoir. The overstory consists of fir and pine species with a mix of incense cedar, black oak, and Douglas fir. Figure 1 shows the Project vicinity.



## 1.2 Project Description

The Project is to construct a residential structure approximately 250 feet northwest of an existing structure and 50 feet higher in elevation. The locations of the existing structure and proposed structure are shown below in Figure 2. Staging areas will be located outside the Project area and access routes will be on existing roads.



#### 2.0 METHODOLOGY

This PWD was prepared in accordance with the 1987 USACE Wetlands Delineation Manual (USACE 1987) and the Regional Supplement to the USACE of Engineers Wetland Delineation Manual: Western Mountains Region (Version 2.0) (USACE 2008). The Study Area was surveyed on June 20, 2024 to gather the necessary soil, vegetation, and hydrology data to prepare the PWD report. Data was collected according to procedures of the above referenced documents for determination of the wetland boundaries and data was collected and entered into the Wetland Determination Data Forms (Appendix A). The Study Area where data collection and field surveys took place is shown on Figure 1 in the Project Parcel. The Project Area outline with the existing structure and proposed building location are defined and shown above in Figure 2.

- Wetland Delineation Study Area (Study Area): Total area of data collection that includes the Project Area and the entire parcel.
- Project Area: Total area where work is planned that is the approximate location of the residential structure construction site.

Sierra Ecosystem Associates (SEA) Senior Ecologist, Jeremy Waites, served as the principal author of the PWD report. Mr. Waites has over 18 years of professional experience completing a variety of biological studies and preparing associated reports and has completed numerous wetland delineations in the Sierra Nevada region.

Observation/data points were composed of paired data collection locations based on field conditions. Each pair of points was placed equidistant from the wetland boundary determined by the indicators at each data point. At each data point, the site was examined for hydrophytic vegetation, hydric soils, and wetland hydrology and recorded on the attached Data Forms (Appendix A). Wetland boundaries, data points and other waters, including streams, were mapped using a sub-meter accuracy GPS unit and are shown in Figure 5.

Vegetation was sampled and quantified at each point by each taxon's percent cover of the observation area and identified to species level wherever possible using the Jepson Manual: Higher Plants of California nomenclature (Hickman 1993) (Jepson eFlora 2024). The 2016 National Wetland Plant List and the U.S. Department of Agriculture (USDA) Plants database were consulted to determine the wetland indicator status for each plant [Upland (UPL), Facultative Upland (FACU), Facultative (FAC), Facultative Wetland (FACW), and Obligate (OBL)] (Lichvar et al. 2016, USDA NRCS 2024).

Soil pits were dug to a depth necessary to document evidence of hydric soils and examined at each potential wetland and adjacent upland. Each soil sample was moistened before determining texture and color. Soil texture was determined in the field by approximating the percentage of sand, silt, and clay using the USDA soil texture triangle. Soil colors were determined using the Munsell Soil Color Charts (2000). The soils were classified using the USDA soil texture nomenclature as described in the University of Florida Extension Fact Sheet SL-29

(Brown 2003). Hydric soil indicators described in the Supplemental Manual and the USDA Natural Resource Conservation Service (NRCS) publication of Field Indicators of Hydric Soils in the United States: A Guide for Identifying and Delineating Hydric Soils were used to determine if hydric soils are present (USDA 2017).

Wetland hydrology indicators were evaluated at potential wetlands. Determination of the ordinary high-water mark (OHWM) was based on the definition provided in the USACE regulations under the Clean Water Act (CWA) 33 CFR 328.3(e) and the Regulatory Guidance Letter No. 05-05 (USACE 2005). All existing conditions are described in more detail in Section 3.2. Environmental Conditions, and OHWM determinations were based upon direct or indirect evidence as described in both the 1987 Manual and the Supplemental Manual and the Regulatory Guidance Letter No. 05-05.

The following data sources were collected prior to going to the field on June 20, 2024:

- Web Soil Survey (NRCS 2024): The web soil survey was reviewed to determine which soil series have been mapped on-site and whether any hydric soils are present. A Custom Soil Resource Report for El Dorado County California, Digital GIS shapefiles of the mapped soils obtained from the NRCS were downloaded and mapped for the Project.
- National Wetlands Inventory (NWI) [U.S. Fish and Wildlife Service (USFWS) 2024]:
   Digital geographic information system (GIS) shapefiles of existing, mapped NWI wetlands were downloaded from the USFWS Wetlands Geodatabase and mapped for the Project.
- National Hydrography Dataset (NHD) [U.S. Geological Survey (USGS) 2023]: Digital GIS shapefiles of the hydrographic data for the region were downloaded from the USGS NHD Geodatabase and mapped for the Project.
- The USGS 7.5-minute Robbs Peak SE topographic quadrangle map: The quad map was reviewed for existing waters and other potential wetland features or topography that indicated the potential for drainage or ponding.
- Habitat Classification: The habitat was classified by reviewing the Manual of California Vegetation classification scheme and based on knowledge of plant communities in the region (Sawyer and Keeler-Wolf 2009). These vegetation communities can be crosswalked with other vegetation classification schemes as necessary.
- Aerial Photography: National Agricultural Imagery Program (NAIP) 2024 El Dorado County, color, ortho-rectified 0.3-meter pixel resolution: Aerial photography was used to determine coarse locations of wetland boundaries and data collection points.

#### 2.1 Site Assessment

After completing the database review, SEA staff Senior Ecologist, Jeremy Waites, Environmental Scientist, Summer Abel, and Assistant Environmental Scientist Aria Pauling visited the Project area and completed a pedestrian field survey on June 20, 2024. The purpose of the field survey was to collect data that would aid in determining the boundaries of all

wetlands in the Project area. Data collected during the field assessment and photos of collected samples can be found in Appendix A and Appendix B, respectively.

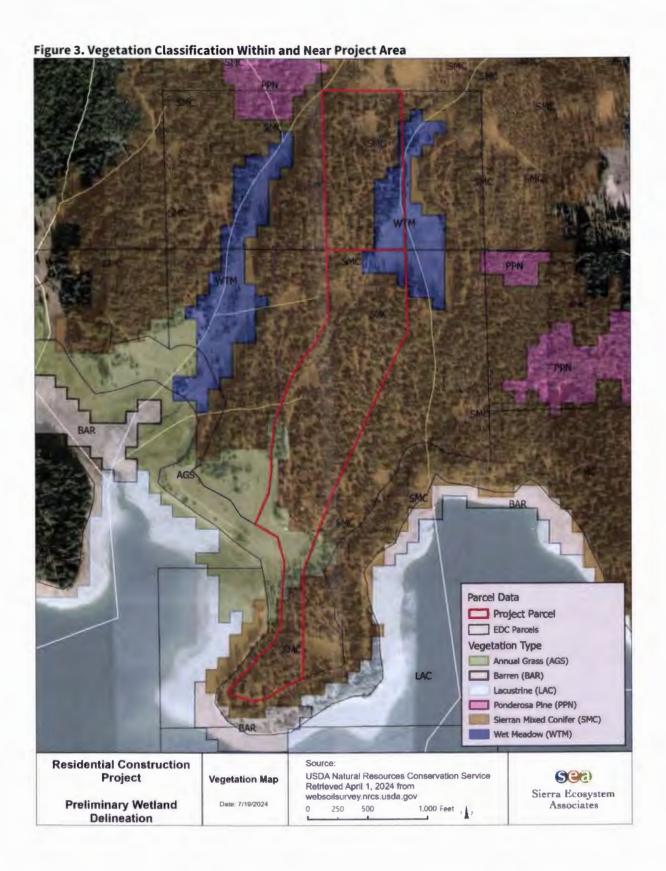
#### 3.0 RESULTS AND DISCUSSION

This section describes the existing environmental conditions including soils, vegetation, and wetland features.

#### 3.1 Habitat Classification

There are numerous vegetation classification schemes for California, which have been developed by various agencies and ecologists for various user groups. The California Wildlife Habitat Relationship (CWHR) system was developed by CDFW to predict the habitat value for vertebrate animal species in California (CWHR 2024). Figure 3 shows the vegetation classification of the Project area according to the CWHR system. Although the data shown in Figure 3 are coarse, the vegetation types displayed are consistent with observations of vegetation types identified during the pedestrian field survey. The following descriptions characterize the four major vegetation types found within the Study area.

- <u>Annual Grassland</u> usually contains perennial bunch grasses such as squirrel tail (*Elymus*), mules ear (*Wyethia*), and sometimes sagebrush (*Artemisia*). Many of these species have been displaced by non-native annual grasses. This is more common at lower elevations.
- Wet Meadow is made up of a large variety of plant species. Those species most common to wet meadows in the north-central Sierra at this elevation include Agrostis, Carex, Danthonia, Juncus, Salix, and Scirpus. Important grass and grass-like species include thingrass, abruptbeak sedge, beaked sedge, Nebraska sedge, tufted hairgrass, needle spikerush, fewflowered spikerush, common spikerush, baltic rush, Nevada rush, irisleaf rush, pullup muhly, and panicled bulrush.
- <u>Sierran Mixed Conifer</u> is defined by vegetation consisting of thinleaf alder, aspen, cottonwood, dogwood, wild azalea, willow, and water birch. Montane riparian is found associated with montane lakes, ponds, seeps, bogs and meadows as well as rivers, streams and springs. Within the Project Area, lodgepole and honeysuckle are common in the upper edges of the meadow.



### 3.2 Environmental Conditions

The Project is in the USDA Land Resource Region (LRR) 22A, Sierra Nevada Mountains, which is characterized by hilly to steep mountain relief and occasional mountain valleys.

### Soils

The NRCS Soil Survey indicates that there are four soil series within the study area (see Figure 4). The following description is summarized from the USDA NRCS Custom Soil Resource Report (NRCS 2024).

Table 1. Soil Series in Study Area

Map Unit Name	Acres in Parcel	Percent of Parcel
Aquepts and Umbrepts 0 to 15 percent slopes	6.95	10.6%
Pilliken coarse sandy loam, 5 to 30 percent slopes	58.83	89.4%

## **Aquepts Series**

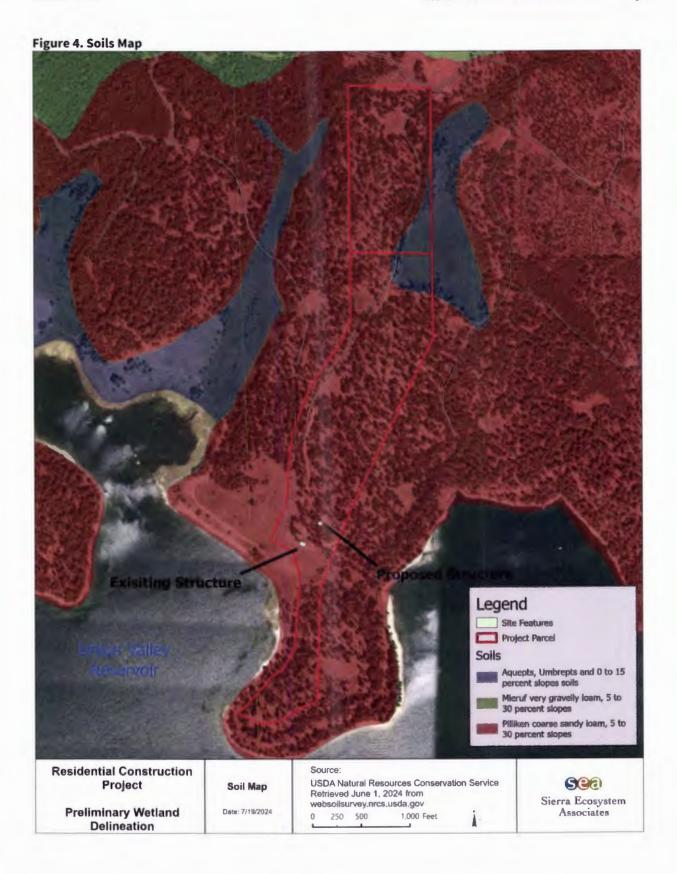
Aquepts are poorly drained or very poorly drained soils that are formed in alluvial material on broad valley flats and along drainages. Slope ranges from 0 to 15 percent. Vegetation is the Sedge-Rush series.

• Aquepts and Umbrepts, 0 to 15 percent slopes soils

#### Pilliken Series

The Pilliken series consists of deep, well drained soils formed in material weathered from granitic rocks. They are on mountainsides with slopes of 5 to 75 percent. Mean annual precipitation is 53 inches and mean annual temperature is 49 degrees F.

Pilliken coarse sandy loam, 5 to 30 percent slopes



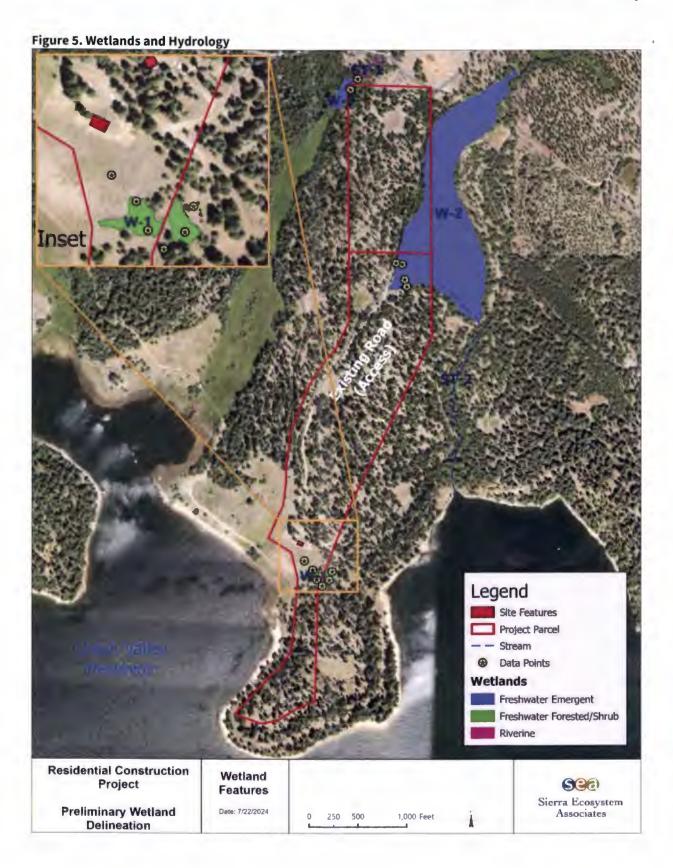
## Wetlands and Other Potential Army Corps of Engineers' Jurisdictional Waters

Wetlands are defined as, "those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas" (USACE 1987). Wetland habitats occur within the Project Area.

During the site assessment, potential jurisdictional wetlands and waters were mapped based on vegetation indicators, the presence of hydric soils and visible hydrology. Data corresponding to the wetland determination is included in Appendix A. Figure 5 shows the wetlands that exist within and nearby the Project Area.

## **Deepwater Aquatic Habitats**

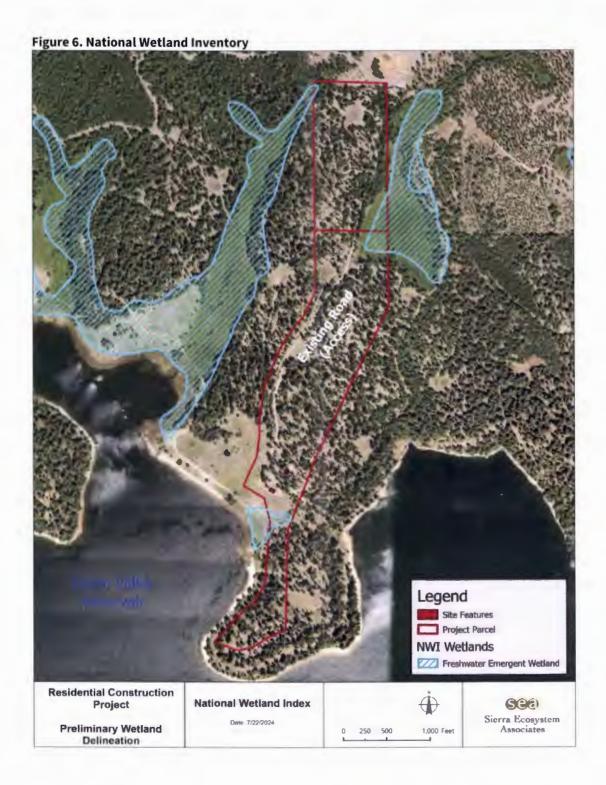
Deepwater aquatic habitat is defined as, "areas that are permanently inundated at mean annual water depths > 6.6 feet or permanently inundated areas ≤ 6.6 feet in depth that do not support rooted-emergent or woody plant species" (USACE 1987). There is one feature within the study area that meets this definition which is Union Valley Reservoir. Union Valley Reservoir is a Sacramento Municipal Utility District maintained reservoir that decreases in volume in the fall to early winter and is close to full pool in normal rain years following snowmelt periods. The ordinary high-water mark for this reservoir is approximately 770 feet from Project activities.



## 3.3 Aquatic Features and Potential Wetlands

The wetland and hydrological features from the National Wetland Inventory and the National Hydrology Dataset (USFWS 2024) are shown in Figure 6. Overland flow is generally from north to south. Two streams (ST-1, ST-2) shown in Figure 5 are on either side of the Project. Both flow through meadows and empty into Union Valley Reservoir.

Following completion of the field assessment, delineated features of the wetland differ from those defined by the NWI. NWI wetland data is presented in Figure 6. Specifically, based on the field survey data, the wetlands extend farther and the most southern wetland (W-1) is more complex. W-1 has many wetland plant species, but trends to more upland invasive plant species in the later drier season. The NWI dataset classifies the wetlands within the study area as: Emergent Wetland but also contains Forested Shrub Wetland and Riverine.



#### 4.0 SUMMARY OF FINDINGS

Wetlands within the study area are localized to the three wetland areas W-1, W-2, and W-3. W-1 was a mix of wetland and upland species and its characteristics barely indicated it as a wetland. W-2 is part of a large meadow complex in which the overland flow converged into (ST-2) on the southeastern side into a culvert and road. W-3 forms from a stream (ST-1) and is a riverine wetland. The overland flow of ST-1 disperses and forms a large freshwater emergent wetland.

The annual grass area between the existing structure and the lake was examined closely for wetland indicators. This area had sandy and very well drained soils with no indicators of being a wetland.

0 acres of wetlands and other waters have been identified within the Project disturbance area as shown in Table 2, below. The disturbance area is based on the following Project features:

- Construction of new residential structure
- Access routes and staging areas

Table 2. Wetland Area Calculations

Location	Acres	Square Feet
Within Study Area and Outside Project Area	4.2	183,514
Within Project Construction Area	0	0

Based on this PWD, no impacts to wetlands will result from the Project.

### 5.0 REPORT AUTHORS

The following individuals prepared the text presented in this analysis.

## **Sierra Ecosystem Associates**

Rick A. Lind Principal-In-Charge – Document Review

Jeremy Waites Arborist/GIS Specialist – Primary Author

Summer Abel Environmental Scientist – Document Review

Rayann La France Administrative Services Manager – Editor and Document Production

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# **Appendix A**

## **Wetland Delineation Data Forms**

oject/Site: Union Valley		City/County: El Dorado Sampling Date: 6/20/2024
oplicant/Owner: Michael Kuhl		State: CA Sempling Point: WD-1
vestigator(s): Jeremy Weites, Summe	r Abel	Section, Township, Range: Section 16, T12N, R14E
endform (hillslope, terrace, etc.):	hillslope	Local relief (concave, convex, none): none Slope (%)
bregion (LRR): D	Latitu	de: 38.879483
il Map Unit Name: Pilliken coarse sa		
e dimetic / hydrologic conditions on the		
e Vegetation, Soil, or		
	Hydrology resturally probl	
		t locations, transects, important features, etc.
drophytic Vegetation Present?	Yes No X	rocalons, u ansects, important reatures, etc.
dric Sail Present?	Yes No X	is the Sampled Area within a Yes No X
etland Hydrology Present?	Yes No X	Wetland?
marks:		
EGETATION - Use scientific n	ames of plants	
Control of the Contro	Absolute %	Dominant Indicator Dominance Test worksheet:
e Stratum (Plot size:	) Cover	Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: 0
2.		THE PAGE THOUGHT AND THE
3.		Total Number of Dominant
4		Species Across All Strate: 1
	0	Total Cover
oling/Shrub Stratum (Plot size:	)	Percent of Dominant Species That Are OBL, FACW, or FAC: 0%
1		- INDUNE OBE, FACTO, SETAL.
3		
4.		-
6.		
	0	Total Cover Prevalence Index worksheet:
rb Stratum (Plot size:	)	Total % Cover of: Multiply by:
Rumex acetoselle     Verbescum thepsus	30	Y FACU OBL species 0 x 1 = ( FACU FACW species 0 x 2 = (
3. Madie elegans	1	- FAC species 1 x3=
4. Junous tenuis		
5. Leptosiphon ciliatus	1	0.140.0
6.		Column Totals: 33 (A) 1
7		
8		Prevelence Index = B/A = 3.97
	34	Total Cover
oody Vine Stratum (Plot size:	)	Hydrophytic Vegetation Indicators
1.		Dominance Test is >50%
2.		Prevalence Index is ≤3.0
	0	Total Cover Morphological Adaptations (Provide sup
Bare Ground in Herb Stratum	50 % 0	over of Biotic Crust Problematic Hydrophytic Vegetation' (E)
Daile Glouino III Flarb Grassili		Production The Production of t
Hydrophytic Vegetation Present? Yes NoX		

Western Mountains, Valleys and Coast Region

Depth	Martrix		Redox Fee	confirm the a			
(inches)	Color (moist)	%		-	LOC2	Texture	Remarks
			Color (moist) %	Туре	100		ryemork 2
2 7.5	5 YR 3/2	100				sandy	
				-			
Type, C=Concertration	D=Deplaton RM=Recuca	d Matrix	2 Location FL=Pois Linnig, RC=	Roct Charmet, M	Awkleh.		
lydric Soll Indicators	: (Applicable to all LF	RES, UNI	ess otherwise noted.) Indicat	ors for Proble	ematic Hy	rdric Solis':	
Histosol (A1)			Sandy Redox (S5)			_	
Histic Epiped	lon (A2)		Stripped Matrix (S6)			2 cm Muck (A1	0) (LRR B)
Black Histic (	(A3)		Loamy Mucky Mineral(F1)			Very Shallow D	ark Surface
Hydrogen Su			Loamy Gleyed Matrix (F2)			Red Parent Ma	terial (TF2)
	ow Dark Surface (A11		Depleted Matrix (F3)			Other (Explain	in Remarks)
Thick Durk S			Redax Dark Surface (F6)	,		_	
Depleted Bel	ow Dark Surface (A11)		Depleted Dark Surface (F7)		3 Indicator	rs of hydrophytic v	regetation and wetland hydrol
Sandy Mucky	Mineral (S1)		Redox Depressions (FB)		must be p	present, unless d	listurbed or problematic.
Sandy Gleye	d Matrix (S4)						
Restrictive Layer (If Type: Depth (inches): Remarks:	present):			Hydric Sol	il Present	? Yes	NoX
Type: Depth (inches): Remarks:	present):			Hydric Sol	Present	? Yes	NoX
Type: Depth (inches): Remarks:				Hydric Sol	# Present	7 Yes	NoX
Type: Depth (inches): Remarks: HYDROLOGY Netland Hydrology In		check all	that apply)	Hydric Soi			No X
Type: Depth (inches): Remarks: HYDROLOGY Netland Hydrology In	ndicators: nimum of one required;	check all	that apply) Salt Crust (811)	Hydric Sol		Secondary Indica	
Type: Depth (inches): Remarks:  HYDROLOGY Netland Hydrology Ir Primary Indicators (mi	ndicators: nimum of one required;	check all	Salt Crust (811)	Hydric Sol		Secondary Indica	ators (2 or more required) ined Leaves
Type: Depth (inches):  Remarks:  HYDROLOGY  Netland Hydrology Ir  Primary Indicators (mi Surface Water (A High Water Table	ndicators: nimum of one required;	check all	Salt Crust (811) Water Steined Leaves	Hydric Sol		Secondary Indict Water Sta	stors (2 or more required) ined Leaves It Mounds
Type: Depth (inches):  Remarks:  HYDROLOGY Netland Hydrology Ir Primary Indicators (mi Surface Water (A High Water Table Saturation (A3)	ndicators: nimum of one required; 1) (A2)	check all	Salt Crust (811) Water Steined Leaves Aquatic Invertebrates (813)	Hydric Sol		Secondary Indict Water Sta Raised An Front Hea	stors (2 or more required) ined Leaves It Mounds we Hummocks
Type: Depth (inches):  Remarks:  HYDROLOGY  Netland Hydrology Ir  Primary Indicators (mi Surface Water (A High Water Table Seturation (A3)  Water Marks (B1)	ndicators: nimum of one required; 1) (A2)	check all	Selt Cruet (811) Water Steined Leaves Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1)			Secondary Indici	ators (2 or more required) ined Leaves It Mounds ve Hummocks Patterns (B10)
Type: Depth (inches):  Remarks:  HYDROLOGY Wetland Hydrology In Primary Indicators (mil Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit	ndicators: 1) (A2) Is (B2)	check all	Salt Crust (811) Water Steined Leaves Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along	g Living Roots		Secondary Indici	stors (2 or more required) ined Leaves It Mounds ve Hummocks Patterns (B10) on Water Table (C2)
Type: Depth (inches):  Remarks:  HYDROLOGY Netland Hydrology Ir Primary Indicators (mi Surface Water (A High Water Table Seturation (A3) Water Marks (B1) Sediment Deposits (B3)	ndicators: 1) (A2) Is (B2)	check all	Salt Crust (811) Water Steined Leaves Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C	g Living Roots		Secondary Indice Water Sta Reised An Froat Hea Drainage Dry-Sease Crayfish B	ators (2 or more required) ined Leaves It Mounds we Hummocks Patterns (B10) on Water Table (C2)
Type: Depth (inches):  Remarks:  HYDROLOGY  Netland Hydrology Ir  Primary Indicators (mi Surface Water (A High Water Table Saturation (A3)  Water Marks (B1) Sediment Deposit	ndicators: 1) (A2) Is (B2)	check all	Salt Crust (811) Water Steined Leaves Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along	g Living Roots		Secondary Indice Water Sta Reised An Froat Hea Drainage Dry-Sease Crayfish B	ators (2 or more required) ined Leaves It Mounds we Hummocks Patterns (B10) on Water Table (C2)
Type: Depth (inches):  Remarks:  HYDROLOGY Netland Hydrology Ir Primary Indicators (mi Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits (B3 Surface Soil Crac	ndicators: 1) (A2) Is (B2)		Salt Crust (811) Water Steined Leaves Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C	g Living Roots		Secondary Indici	ators (2 or more required) ined Leaves It Mounds we Hummocks Patterns (B10) on Water Table (C2)
Type: Depth (inches):  Remarks:  HYDROLOGY Netland Hydrology Ir Primary Indicators (mi Surface Water (A High Water Table Seturation (A3) Water Marks (B1) Sediment Deposits (B3 Surface Soil Crac Inundation Visible	ndicators: 1) (A2) is (B2) ivs (B6)		Salt Crust (811) Water Steined Leaves Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres alon; Presence of Reduced Iron (C Recent Iron Reduction in Till	g Living Roots		Secondary Indice Water Sta Reised An Frost Hea Drainage Dry-Sease Crayfish B Saturation Shallow A	ators (2 or more required) ined Leaves It Mounds ve Hummocks Patterns (B10) on Water Table (C2) turrows (C8) Visible on Aerial Imagery (C2)
Type: Depth (inches):  Remarks:  HYDROLOGY Wetland Hydrology Ir Primary Indicators (mi Surface Water (A High Water Table Seturation (A3) Water Marks (B1) Sediment Deposits (B3 Surface Soil Crac inundation Visible	ndicators: 1) (A2) is (B2) i) on Aerial Imagery (B7 id Concave Surface		Salt Crust (811) Water Steined Leaves Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C Recent Iron Reduction in Till Stunted or Stressed Plants	g Living Roots		Secondary Indice Water Sta Reised An Frost Hea Drainage Dry-Sease Crayfish B Saturation Shallow A FAC-Neut	ators (2 or more required) ined Leaves It Mounds we Hummocks Patterns (B10) on Water Table (C2) turrows (C8) i Visible on Aerial Imagery (C2) quitard (D3)
Type: Depth (inches):  Remarks:  HYDROLOGY  Netland Hydrology In Primary Indicators (mi Surface Water (A High Water Table Seturation (A3)  Water Marks (B1) Sediment Deposits (B3 Surface Soil Crac inundation Visible Sparsiet Vegetate	ndicators: 1) (A2) is (B2) i) on Aerial Imagery (B7 id Concave Surface		Salt Crust (811) Water Steined Leaves Aquatic Invertebrates (813) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C Recent Iron Reduction in Till Stunted or Stressed Plants	g Living Roots		Secondary Indice Water Sta Reised An Frost Hea Drainage Dry-Sease Crayfish B Saturation Shallow A FAC-Neut	ators (2 or more required) ined Leaves It Mounds we Hummocks Patterns (B10) on Water Table (C2) iurrows (C8) I Visible on Aerial Imagery (C2 quitard (D3) ral Test (D5)
Type: Depth (inches):  Remarks:  HYDROLOGY Wetland Hydrology In Primary Indicators (min Surface Water (As) Water Table Saturation (As) Water Marks (B1) Sediment Deposit Drift Deposits (B3 Surface Soil (B3 Surface Soil (B3 Algal Mat or Crus Iron Deposits Field Observations: Surface Water Present Water Table Present?	hidicators: nimum of one required; 1) (A2) Its (B2) Its (B6) Its (B6) Its (B6) Its (B6) Its (B7) Its (B7) Its (B8) Its (	Depth (ir Depth (ir	Salt Crust (811)  Water Steined Leaves  Aquatic Invertebrates (813)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres alon;  Presence of Reduced Iron (C  Recent Iron Reduction in Till  Stunted or Stressed Plants  Other (Explain in Remerks)	g Living Roots 24) ed Soils (C6)	(C3)	Secondary Indice Water Sta Reised An Frost Hea Drainage Dry-Sease Crayfish B Saturation Shallow A FAC-Neut	stors (2 or more required) ined Leaves It Mounds we Hummocks Patterns (B10) on Water Table (C2) turrows (C8) I Visible on Aerial Imagery (C2 quitterd (D3) ral Test (D5) nic Position
Type: Depth (inches):  Remarks:  HYDROLOGY Wetland Hydrology Ir Primary Indicators (min Surface Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Orift Deposits (B3 Surface Soil Crac Inundation Visible Sparslet Vegetalt Algal Mat or Crus Iron Deposits  Field Observations: Surface Water Present?	hidicators: nimum of one required; 1) (A2) Its (B2) Its (B6) Its (B6) Its (B6) Its (B6) Its (B7) Its (B7) Its (B8) Its (	Depth (ir Depth (ir	Salt Crust (811)  Water Steined Leaves  Aquatic Invertebrates (813)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres alon;  Presence of Reduced Iron (C  Recent Iron Reduction in Till  Stunted or Stressed Plants  Other (Explain in Remerks)	g Living Roots 24) ed Soils (C6)	(C3)	Secondary Indice Water Sta Reised An Froat Hea Drainage Dry-Sease Crayfish B Saturation Shallow A FAC-Neut	stors (2 or more required) ined Leaves It Mounds we Hummocks Patterns (B10) on Water Table (C2) turrows (C8) I Visible on Aerial Imagery (C2 quitterd (D3) ral Test (D5) nic Position
Type: Depth (inches):  Remarks:  HYDROLOGY Netland Hydrology Ir rimary Indicators (mir Surface Water (A High Water Table Seturation (A5) Water Marks (B1) Sediment Depoal Drift Deposits (B3 Surface Soil Crac Inundation Visible Sparslet Vegetate Algal Mat or Crus Iron Deposits  Field Observations: Surface Water Present Vater Table Present? Seturation Present? includes capillary frin	indicators:  inimum of one required;  i)  (A2)  is (B2)  i)  is (B5)  on Aerial Imagery (B7)  ed Concave Surface  it  Yes NoX	Depth (ir	Salt Crust (811)  Water Steined Leaves  Aquatic Invertebrates (813)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres alon;  Presence of Reduced Iron (C  Recent Iron Reduction in Till  Stunted or Stressed Plants  Other (Explain in Remerks)	g Living Roots: 24) ed Soils (C6) Wetland H	(C3)	Secondary Indice Water Sta Reised An Froat Hea Drainage Dry-Sease Crayfish B Saturation Shallow A FAC-Neut	stors (2 or more required) ined Leaves It Mounds we Hummocks Patterns (B10) on Water Table (C2) turrows (C8) I Visible on Aerial Imagery (C2 quitterd (D3) ral Test (D5) nic Position

Western Mountains. Valleys and Coast Region

#### WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys and Coast Region Project/Site: Union Velley Sampling Date: 6/20/2024 City/County: El Dorado Applicant/Owner: Michael Kuhl State: CA Sampling Point: WD-2 investigator(s): Jeremy Waites, Summer Abel Section, Township, Range: Section 16, T12N, R14E Landform (hilfstope, terrace, etc.): hilfstope Local relief (concave, convex, none): none Slope (%): Subregion (LRR): D Latitude: 38.8793 Longitude: -120.4140 Datum: WGS84 Soil Map Unit Name: Pilliken coarse sandy loam, 5 to 30 percent slopes NWI classification: Freshwater Emergent Wetland Are climatic / hydrologic conditions on the site typical for this time of year? Are Vegetation \_\_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_significantly disturbed? Are Vegetation \_\_\_\_\_\_, Soil \_\_\_\_, or Hydrology \_\_\_\_\_\_naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes x No Hydric Soil Present? Yes x No Wetland Hydrology Present? Yes x No is the Sampled Area within a Yes X No\_\_\_ Wetland? Remarks: VEGETATION - Use scientific names of plants Dominance Test worksheet: **Number of Dominant Species** Tree Stratum (Plot size: Cover Status That Are OBL, FACW, or FAC: 1 (A) 1. Pinus jeffreyii 2. Pinus contorta Total Number of Dominant Species Across All Strate: 1 (B) Total Cover pling/Shrub Stratum (Plot size: Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B) Total Cover Prevalence Index worksheet: Herb Stratum (Plot size: Total % Cover of: 90 x 1 = 0 x 2 = OBL OBL species FACW species 6 x 3 = 15 FAC species 3. Lollum pretense 0 x 4 = 0 FACU species x 5 = Column Totals: 95 (A) 105 (B) Prevalence Index = B/A = 100 Total Cover Hydrophytic Vegetation indicators: Voody Vine Stratum (Plot size: X Dominance Test is >50% X Prevalence Index is ≤3.0<sup>1</sup> Morphological Adaptations (Provide supporting **Total Cover** data in Remarks or on a separate sheet) % Bare Ground in Herb Stratum % Cover of Biotic Crust \_\_\_\_\_ Problematic Hydrophytic Vegetation' (Explain) **Hydrophytic Vegetation Present?** Yes X No

Western Mountains, Valleys and Coast Region

Depth	Matrix		Redox Features			
_						
(inches)	Color (moist)	%	Color (moist) % 1	Type LOC	Texture	Remarks
2 101	/R 3/4	100			sandy	
Type, C=Concentration, D	=Diplact RM=Reduc	ed Metrix.	<sup>2</sup> Location FL=Pote Liting, RC=Rock C	Char nel, M≠Malne		
tydric Soil Indicators:	(Applicable to all L	RRs, uni	ess otherwise noted.) Indicators fo	or Problematic	Hydric Solls':	
Histosol (A1)		X	Sandy Redox (S5)	_		
Histic Epipedo			Stripped Matrix (S6)		2 cm Muck (/	
Black Histic (A	3)		Loamy Mucky Mineral(F1)		Very Shallow	Dark Surface
Hydrogen Sulf			Loamy Gleyed Matrix (F2)			Autorial (TF2)
	w Dark Surface (A11		Depleted Matrix (F3)		Other (Explai	in in Remarks)
Thick Dark Su			Redax Durk Surface (F6)			
	w Dark Surface (A11)		Depleted Dark Surface (F7)			c vegetation and wetland hydrolog disturbed or problematic.
Sandy Mucky			Redox Depressions (F8)	must b	a present, uniess	distance of properties.
ound) Oloyou	madia (O-4)					
Restrictive Layer (if p	resent):					
Туре:			_			
Type: Depth (inches): Remerks:			. м	ydric Soll Prese	nt? Yes_	X No
Depth (inches):  Remarks:  HYDROLOGY	flicators:		- hy	rydric Soli Prese	rnt? Yes_	X No
Depth (inches):  Remarks;  HYDROLOGY  Wetland Hydrology Inc		; check al		lydric Soli Prese		X No
Depth (inches):  Remarks;  HYDROLOGY  Wetland Hydrology Inc  Primary Indicators (mini	mum of one required	; check al	I that apply)	lydric Soll Prese	Secondary Ind	
Depth (inches):  Remarks;  HYDROLOGY  Netland Hydrology Inc  Primary Indicators (mini  Surface Water (A1)	mum of one required	; check al	I that apply) Selt Crust (811)	ydric Soll Prese	Secondary Ind	icators (2 or more required)
Depth (inches):  Remarks:  HYDROLOGY  Netland Hydrology Inc  Primary Indicators (mini Surface Water (A1)  High Water Table (	mum of one required	; check al	l that apply) Sait Crust (B11) Weter Stained Leaves	ydric Soll Prese	Secondary Ind Water S Raised	icators (2 or more required) tained Leaves Ant Mounds
Depth (inches):  Remarks:  HYDROLOGY  Netland Hydrology Indepth of the primary Indicators (minimary Indicators (Mi	mum of one required	; check al	Seit Crust (B11) Weter Steined Leaves Aquatic Invertebrates (B13)	ydric Soll Prese	Secondary Ind Water S Reised	icators (2 or more required) Italned Leaves Ant Mounds Bave Hummocks
Depth (inches):  Remarks:  HYDROLOGY  Netland Hydrology Indepth of the primary Indicators (minimary Indicators (mi	mum of one required ) A2)	; check al	Sait Crust (B11) Water Stained Lauves Aquatic Invertabrates (B13) Hydrogen Sulfide Odor (C1)		Secondary Ind Water S Reised / Front He	icators (2 or more required)  Italined Leaves Ant Mounds  Bave Hummocks  Patterns (810)
Depth (inches):  Remarks:  HYDROLOGY  Netland Hydrology Ind  Primary Indicators (mini  Surface Water (A1)  High Water Table (  Seturation (A3)  Water Marks (B1)  Sediment Deposits	mum of one required ) A2)	; check al	Sait Crust (B11) Water Stained Lauves Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres elong Livin		Secondary Ind Water S Reised / Front He Draining	icators (2 or more required)  Italined Leaves Ant Mounds  Beve Hummocks  Patterns (B10)  Ison Water Table (C2)
Depth (inches):  Remarks:  HYDROLOGY  Netland Hydrology Inc  Primary Indicators (mini  Surface Water (A1)  High Water Table (  Seturation (A3)  Weter Marks (B1)  Sediment Deposits  Drift Deposits (B3)	mum of one required ) (A2)	; check al	Salt Crust (B11) Weter Stained Leaves Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres elong Livin	ng Roots (C3)	Secondary Ind Water S Reised / Froat He Draining Dry-Ses	icators (2 or more required) Italned Leaves Ant Mounds seve Hummocks se Patterns (810) Ison Weter Table (C2)
Depth (inches):  Remarks:  HYDROLOGY  Netland Hydrology Indirection  Primary Indicators (mini Surface Water (A1) High Water Table ( Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Surface Soil Crack	mum of one required ) A2) (B2) s (B6)		Salt Crust (B11) Weter Stained Leaves Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres elong Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc	ng Roots (C3)	Secondary Ind Water S Reised / Froat He Drainag Dry-Ses Craylish	icators (2 or more required) Italned Leaves Ant Mounds seve Hummocks e Patterns (B10) Ison Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C2)
Depth (inches):  Remarks:  HYDROLOGY  Wetland Hydrology Ind  Primary Indicators (mini  Surface Water (A1)  High Water Table (  Seturation (A3)  Weter Marks (B1)  Sediment Deposits  Drift Deposits (B3)  Surface Soil Crack	mum of one required ) (A2)		Salt Crust (B11) Weter Stained Leaves Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres elong Livin	ng Roots (C3)	Secondary Ind Water S Reised / Froat He Draining Dry-Ses Craylish Seturati	icators (2 or more required) Italned Leaves Ant Mounds seve Hummocks se Patterns (810) Ison Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C2) Aquitard (D3)
Depth (inches):  Remarks:  HYDROLOGY  Wetland Hydrology Ind  Primary Indicators (mini  Surface Water (A1)  High Water Table (  Seturation (A3)  Weter Marks (B1)  Sediment Deposits  Drift Deposits (B3)  Surface Soil Crack	mum of one required ) A2) (B2) s (B6) on Aerial Imagery (B'		Salt Crust (B11) Weter Stained Leaves Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres elong Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc	ng Roots (C3)	Secondary Ind Water S Reised / Froat He Draining Dry-Ses Craylish Seturati	icators (2 or more required) Italned Leaves Ant Mounds seve Hummocks e Patterns (B10) Ison Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C2)
Depth (inches):  Remarks:  HYDROLOGY  Netland Hydrology Ind  Primary Indicators (mini  Surface Water (A1)  High Water Table ( Seturation (A3)  Water Marks (B1)  Sediment Deposits  Drift Deposits (B3)  Surface Soil Crack	mum of one required ) A2) (B2) s (B6) on Aerial Imagery (B'		Salt Crust (B11) Weter Stained Leaves Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres elong Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So	ng Roots (C3)	Secondary Ind Water S Reised / Froat He Drainag Dry-Ses Craylish Saturati	icators (2 or more required) Italned Leaves Ant Mounds seve Hummocks se Patterns (810) Ison Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C2) Aquitard (D3)
Depth (inches):  Remarks:  HYDROLOGY  Netland Hydrology Inc  Primary Indicators (mini  Surface Water (A1)  High Water Table ( Seturation (A3)  Water Marks (B1)  Sediment Deposits (B3)  Drift Deposits (B3)  Surface Soil Crack Inundation Visible of Spanslet Vegetated	mum of one required ) A2) (B2) s (B6) on Aerial Imagery (B'		Salt Crust (B11) Weter Stained Leaves Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres elong Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So	ng Roots (C3)	Secondary Ind Water S Reised / Froat He Drainag Dry-Ses Craylish Saturati	icators (2 or more required) Italned Leaves Ant Mounds seve Hummocks se Patterns (B10) Ison Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C2) Aquiterd (D3)
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Western Mountains, Valleys and Coast Region

#### WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys and Coast Region Project/Site: Union Valley City/County: El Dorado Sampling Date: 6/20/2024 Applicant/Owner: Michael Kuhl State: CA Sampling Point: WD-3 Investigator(s): Jeremy Waites, Summer Abel Saction, Township, Range: Section 16, T12N, R14E Landform (hilfstope, terrace, etc.): hillslope Local relief (concave, convex, none): none Subregion (LRR): D Soil Map Unit Name: Piliken coarse sandy loam, 5 to 30 percent slopes NWI classification: Freshwater Emergent Wetland Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.) Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes? X No Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) Are Vegetation \_\_\_\_\_, or Hydrology \_\_\_\_naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetetian Present? Yes X No Hydric Sail Present? Yes X No Wetland Hydrology Present? Yes No X Is the Sampled Area within a Wetland Hydrology Present? Yes X No\_\_\_ Wetland? Remarks: VEGETATION - Use scientific names of plants **Dominence Test worksheet:** Absolute % Dominant Indicator Cover Number of Dominant Species Iree Stratum (Plot size: Species? Status That Are OBL, FACW, or FAC: Pinus jeffreyii Total Number of Dominant Species Across All Strata: Total Cover pling/Shrub Stratum (Plot size: Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B) Total Cover Prevalence index worksheet: Multiply by: Herb Stratum (Plot size: Total % Cover of: FACU OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 2. Verbescum thepsus FACU 83 x 3 = FAC FAC species 3. Carex fracta 2 x 4 = FAC 4. Juncus tenuis 5 5. Leymus triticoides FAC UPL species \_\_\_\_\_x 5 = 0 257 (8) Column Totals: 85 (A) Prevalence Index = B/A = 3.02 \_ Total Cover Hydrophytic Vegetation Indicators: Woody Vine Stratum (Plot size: X Dominance Test is >50% Prevalence Index is ≤3.0 Morphological Adaptations (Provide supporting Total Cover data in Remarks or on a separate sheet) % Bare Ground in Herb Stratum % Cover of Biotic Crust Problematic Hydrophytic Vegetation¹ (Explain) Hydrophytic Vegetation Present?

Western Mountains, Valleys and Coast Region

US Army Corp of Engineers

Yes X No \_\_

Profile Description	: (Describe to the depth	needed	to document the indicato	r or confirm the	e absence d	of Indicators.)		
Depth	Matrix		Redox	Features				
(inches)	Color (moist)	%	Color (moist)	% Type	LOC)	Texture	Remarks	
	10 YR 3/3	100				sandy		
	10 111 00	100						
Type, C=Concer tratic	r, D=Depleton, RM=Reduce	d Mikina	Location FL-Pois Lifting.	RC=Roct Charmet	M-Matric.			
		_						
			ess otherwise noted.) Ind	icators for Prot	Hematic Hy	duc sons":		
Histosol (A	-	Х	Sandy Redox (S5)					
	edon (A2)		Stripped Matrix (S6)			2 cm Muck (A		
Black Hist	ic (A3)		Loamy Mucky Mineral(F1	)		_ Very Shallow	Dark Surface	
Hydrogen	Sulfide (A4)		Loamy Gleyed Metrix (F2	Ď		Red Parent M	laterial (TF2)	
	Below Dark Surface (A11		Depleted Matrix (F3)			Other (Explain	n in Remarks)	
-	Surface (A12)		Redax Dark Surface (F6)					
	Below Dark Surface (A11)		Depleted Dark Surface (I				vegetation and wetta	
	cky Minerel (S1) yed Matrix (S4)		Redox Depressions (F9)		must be	present, unless	disturbed or problema	ENG.
Seritly Gie	you matrix (O4)							
Restrictive Layer	(if present):							
Restrictive Layer Type:	(If present):							
				Hydric 8	oll Present	? Yes_	X No	_
Type:			-	Hydric 8	ioli Preseni	Yes	XNo	_
Type: Depth (inches): Remarks: HYDROLOGY Wetland Hydrology	/Indicators:	about all		Hydric 6				iracl)
Type:  Depth (inches):  Remerks:  HYDROLOGY  Netland Hydrology  Primary Indicators (i	/Indicators: minimum of one required;	check all		Hydric 8		Secondary Indi	cators (2 or more requ	ired)
Type:  Depth (inches):  Remerks:  HYDROLOGY  Wetland Hydrology  Primary Indicators (included Water	r Indicators: minimum of one required; (A1)	check all	Selt Crust (B11)	Hydric 6		Secondary Indi	cators (2 or more requ	ired)
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Western Mountains, Valleys and Coast Region

Project/Site: Union Velley		City/County: El Dorado	Sampling	Date: 6/20/2024	4
Applicant/Owner: Michael Kuhl			impling Point: WD-4	-	
nvestigator(s): Jeremy Wates, Summ	er Abel	Section, Township. Re		2N, R14E	
	hillslope	Local relief (concave, o	convex, none): none	Slop	pe (%):
Subregion (LRR): D		de: 39.878934    Longits		m: WGS84	
oil Map Unit Name: Pilliken coarse se	andy loam, 5 to 30 percent slope	NWI cl	assification: None		
re climatic / hydrologic conditions on the		? Yes X	No (If no, explain is	Remarks.)	
	r Hydrology significantly dis		ormal Circumstances" pre		No
	r Hydrology naturelly proble		ded, explain any answers		
FUMMARY OF FINDINGS - Attach site			portant features, etc.		
lydrophytic Vegetation Present?	Yes No X				
lydric Sail Present?	Yes No X	is the Sampled Area Wetland?	within a Yes	Mo X	
Vetland Hydrology Present?	Yes No X	Wednesd,			
Remarks:					
FATTITION II. II.					
/EGETATION - Use scientific			Damin	nce Test workshe	ad-
ree Stratum (Plot size:	Absolute % ) Cover	Dominant Indicator Species? Status	Number of Dominar		er.
1. Pinus jeffreyii	40	Х -	That Are OBL, FAC		0 (A)
2. Abies concolor	20			_	
3.			Total Number of Do		4 (8)
4.	60	Total Cover	Species Across All	Strata:	1 (B)
Sepling/Shrub Stratum (Plot size:	)	Total Cover	Percent of Dominan	t Species	
1.			That Are OBL, FAC	W, or FAC:	0% (A/B)
2					
3.					
4					
	0	Total Cover	Prevale	nce index worksh	eet:
Herb Stratum (Plot size:	)		Total % Cover of:	Multiply t	by:
Lotus corniculatus		FAC	OBL species	0 x 1 =	0
2. Verbascum thapsus	1	FACU	FACW species	0 × 2 =	0
3. Achilles millefolium	5	FACU	FAC species	1 × 3 =	3
4. Cynosurus echinatus	- 1		FACU species	8 × 4 =	24
5. Leptosiphon ciliatus	3	-	UPL species	x 5 =	0
б			Column Totals:	7 (A)	(B
7					
8			Prevalence Ind	ex = B/A =	3.86
	11	Total Cover			
Woody Vine Stratum (Plot size:	)		Hydrophyt	ic Vegetation Indic	ators:
1			Dominance Te		
2.			Prevalence Inc		.a
	0	Total Cover		Adaptations (Provi	
% Bare Ground in Herb Stratum	50 % C	over of Biotic Crust		ydrophytic Vegetatio	
	7,00			.,.,	, , , , ,
_					

Western Mountains. Valleys and Coast Region

Depth	Matrix		Red	ox Features					
(inches)	Calor (moist)	%	Color (moist)		pe' LO	2 Texture		Remarks	
(1101101)	10 YR 3/2	100				sandy			
	10 110 92	100							-
							-		
lyse. C=Concer trate	u D=Depletor RM=Reduce	ed Motrix.	2Location FL=Pore Littin	ig. RC=Roct .1	ier net, M=Met	n.			
ydric Soll Indicat	ors: (Applicable to all Li	RRs, unte	ss otherwise noted.) k	ndicators for	Problemati	Hydric Solls	3:		
Histosol (A	A1)		Sendy Redox (S5)						
Histic Epig	pedon (A2)		Stripped Matrix (S6)			2 cm Mu	ick (A10) (L	RR B)	
Black Hist	ic (A3)		Loamy Mucky Mineral(	(F1)	_	Very Sh	allow Dark	Surface	
Hydrogen	Sulfide (A4)		Loamy Gleyed Matrix (	(F2)		Red Par	ent Material	(TF2)	
Depleted I	Below Dark Surface (A11		Depleted Matrix (F3)			Other (E	explain in Re	omarks)	
	k Surface (A12)		Redax Dark Surface (F						
-	Below Derk Surface (A11)		Depleted Dark Surface					ation and wete	
	cky Mineral (S1) byed Matrix (S4)		Redox Depressions (F	<del>(</del> 9)	must	pe present, u	PHONE CHATUM	bed or problems	MIC.
Oandy Ole	you main (O4)								
seconscore rakes	(If present):								
Туре:				Hy	tric Soll Pre	sent? Y	es .	No >	4
				Hyr	dric Soll Pre	sent? Y	**	. No	<u> </u>
Type:				Hy	dric Soll Pre	sent? Y	es	No	
Type: Depth (inches)				Hy	dric Soll Pre	sent? Y	H	_ No _ X	
Type: Depth (inches)			•	Hyr	iric Soll Pre	sent? Y	es	No_3	
Type:				Hyr	dric Soli Pre	sent? Y		No	
Type: Depth (inches) Remarks: HYDROLOGY Netland Hydrology	; y Indicators:			Hy	dric Soli Pre				
Type: Depth (inches) Remarks: HYDROLOGY Netland Hydrology Primary Indicators (	y Indicators: minimum of one required:	check all	•	Hyr	dric Soll Pre	Secondar	y Indicators	(2 or more requ	
Type: Depth (inches) Remarks: HYDROLOGY Netland Hydrology	y Indicators: minimum of one required:	check all	that apply) Salt Crust (B11)	Hyr	dric Soli Pre	Secondar Wa	y Indicators Inter Stained	(2 or more requ	
Type: Depth (inches) Remarks: HYDROLOGY Vetland Hydrology rimary Indicators (	y Indicators: minimum of one required; (A1)	check all	•		dric Soli Pre	Secondar Wa	y Indicators	(2 or more requ	
Type: Depth (inches) Remarks:  HYDROLOGY Vetland Hydrology Primary Indicators ( Surface Water	y Indicators: minimum of one required; (A1) ble (A2)	check all	Salt Crust (B11)		dric Soll Pre	Secondar Wa	y Indicators Inter Stained	(2 or more requ Leaves unds	
Type: Depth (inches) Remarks:  HYDROLOGY Vetland Hydrology Primary Indicators ( Surface Water High Water Ta	y Indicators: minimum of one required; (A1) ble (A2)	check all	Salt Crust (B11) Water Stained Leaves	(B13)	dric Soll Pre	Secondar Wa	y Indicators Iter Stained ised Ant Mo	(2 or more requ Leaves unds ummocks	
Type: Depth (inches) Remarks: HYDROLOGY Wetland Hydrology Primary Indicators ( Surface Water High Water Ta Saturation (A3)	y Indicators: minimum of one required; (A1) ble (A2)	check all	Salt Crust (B11) Water Stained Leaves Aquatic Invertebrates	(B13) (C1)		Secondar We Ra Fro	y Indicators Iter Stained ised Ant Mo rat Heeve H sinage Patts	(2 or more requ Leaves unds ummocks	ured)
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Type: Depth (inches)  Remarks:  HYDROLOGY Vetland Hydrology rimary Indicators ( Surface Water High Water Ta Saturation (A3) Water Marks (i Sediment Dep	y Indicators: minimum of one required; (A1) ble (A2) (B1) osits (B2)	check all	Salt Crust (B11) Water Stained Leaves Aquatic Invertebrates Hydrogen Sulfide Odo Oxidized Rhizosphere	(B13) or (C1) s along Living Iron (C4)	g Roots (C3)	Secondar  We Re Fre Dri	y Indicators iter Stained ist Ant Mo vat Heeve H sinage Patts Season W syffah Burro	(2 or more required to the control of the control o	ured)
Type: Depth (inches)  Remarks:  HYDROLOGY  Vetland Hydrology  rimary Indicators ( Surface Water  High Water Ta  Saturation (A3)  Water Marks (i  Sediment Deposits ( Surface Soil C	y Indicators: minimum of one required; (A1) ble (A2) (B1) costs (B2) (B3) racks (B6)		Salt Crust (B11) Weter Stained Leaves Aquatic Invertebrates Hydrogen Sulfide Odo Oxidized Rhizosphere Presence of Reduced Recent Iron Reduction	(B13) or (C1) s along Living Iron (C4)	g Roots (C3)	Secondar  We Re Fre Dri Dry Cre Sar	y Indicators ter Stained inter Stained inter Heave H sinage Patts r-Season W syffah Burro turation Visi	(2 or more required to the control of the control o	ured)
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Western Mountains, Valleys and Coast Region

VEGETATION - Use scientific names of plants  Absc.  Absc.  1. Pinus jeffreyii  2. Abies concolor  3.	Letitud ent slopes of year? cantly dist illy proble ing point coute % over	State: Section, To Local reliefe: 38.879081 starbed? matic? locations, tra Is the San	CA San ownship. Ran (concave, co D Longitud NWI cler Yes X N Are 'Nor	peing Point: WD- ge: Section 10 nvex. none): le: -120.4195 suification: Non lo(If no, exp mel Circumstance ed. explain any and ortant features, et	5 3, T12N, R14E none Datum: WGS e lain in Remarks s' present? Ye overs in Remarks. Yee X No continue to the second part of the	Slop S84 s.) ps? X ks.)	No
Landform (hilfslope, terrace, etc.): hilfslope Subregion (LRR): D Soil Map Unit Name: Pilliken coarse sandy loam, 5 to 30 percet Are dimatic / hydrologic conditions on the site typical for this time Are Vegetation Soil or Hydrology signific Are Vegetation Soil or Hydrology natura SUMMARY OF FINDINGS — Attach site map showing samplit Hydrophytic Vegetation Present? Yes No Hydrocology Present? Yes No Remarks:  VEGETATION - Use scientific names of plants  Absc Lee Stratum (Plot size: ) Co 1. Pinus jeffreyii 2. Abies concolor 3. 4 Spoiling/Shrub Stratum (Plot size. ) 1.	ent slopes cantly dist illy proble ng point cute % over	Local relieie: 38.879061	Concave. co  Longitud  NWI clar  NWI clar  Yes X N  Are "Nor  (If needs  unsects, Import  unpled Area w  wetland?  Indicator  Stetus	nvex. none): de: -120.4135 suification: Non lo(if no, exp rmal Circumstance ed explain any ans portant features, et rithin a  Do Number of Dor That Are OBL,	Datum: WGs  lain in Remarks s' present? Ye wers in Remark ic.  Yes X No  minence Test minent Species FACW, or FAC of Dominant	Slop SB4 5.) PB? X X workshe	No
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col Map Unit Name: Pilliken coarse sandy loam. 5 to 30 percet ve climatic / hydrologic conditions on the site hypical for this time ve Vegetation Soil or Hydrology signific ve Vegetation Soil or Hydrology natura summary of PinDings — Attach site map showing samplit hydrophytic Vegetation Present? Yes X No X No X Vetland Hydrology Present? Yes No Itemarks:  //EGETATION - Use scientific names of plants	ent slopes cantly dist illy proble ng point cute % over	turbed? matic? locations, tra lis the San  Dominant Species?	NWI clar Yes X N Are "Nor (If needs unsects, Impx npled Area w Wetland?  Indicator Stetus	suffication: Non  (if no, exp  mel Circumstance ed explain any and  portant features, et  ithin a  Do  Number of Dor  That Are OBL,	e lain in Remarks s' present? Ye wers in Remarks. Yes X No mannere Test minant Species FACW, or FAC of Dominant	s.) ps? X ks.)  workshe	1 (A)
ve dimatic / hydrologic conditions on the site typical for this time ve Vegetation Soil or Hydrology signific ve Vegetation Soil or Hydrology natura summary of PINDINGS — Attach site map showing samplit Hydrology Present? Yes X No X N	of year? cantly dist illy proble ng point  colute % over 10 5	purbed? matic? locations, tra lis the San  Dominant Species?	Are Nor (If needs unsects, Important?  Indicator Status	o (if no, exp mal Circumstance ed explain any ans portant features, et ithin a  Do Number of Dor That Are OBL,	lein in Remarks s' present? Ye wers in Remark ic.  Yea X No minence Test minent Species FACW, or FAC of Dominent	workshe	1 (A)
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ve Vegetation Soil or Hydrology signific ve Vegetation Soil or Hydrology natura summary of FINDINGS — Attach site map showing samplit Hydrophytic Vegetation Present? Yes X No X N	cantly dist	property of the service of the servi	Are Nor (If needs unsects, Impo unpled Area w Wetland?	mel Circumstance rd. explain any ana ortant features, et rithin a  Do Number of Dor That Are OBL,	s' present? Ye  wers in Remark  c.  Yee X No  working Remark  The Remark  No  working Remark  The Rema	workshe	1 (A)
ve Vegetation Soil or Hydrology natura  BUMMARY OF FINDINGS — Attach site map showing sampli Hydrophytic Vegetation Present? Yes X No X Vetland Hydrology Present? Yes No Vetland Hydrology Present?  VEGETATION - Use scientific names of plants  Absc.  Lee Stratum (Plot size: ) Co 1. Pinus jeffreyii 2. Abies concolor 3. 4.  Capling/Shrub Stratum (Plot size. ) 1.	ng point	natic? locations, tra is the San  Dominant Species?	insects, Impo	ortant features, et rithin a Do Number of Dor That Are OBL, Total Number	Yes X No	warkshe	1 (A)
Hydrophytic Vegetation Present?  Hydric Soil Present?  Vetland Hydrology Present?  VEGETATION - Use scientific names of plants  VEGETATION - Use scientific names of plants  Abso  1. Pinus jeffreyii  2. Abies concolor  3.  4.  Septima/Shrub Stratum (Plot size	olute % over 10	Is the San  Dominant Species?	npled Area w Wetland?	De Number of Dor That Are OBL,	yes X No	workshe	1 (A)
Hydrophytic Vegetation Present?  Hydric Soil Present?  Vetland Hydrology Present?  VEGETATION - Use scientific names of plants  VEGETATION - Use scientific names of plants  Abso  1. Pinus jeffreyii  2. Abies concolor  3.  4.  Septima/Shrub Stratum (Plot size	olute % over 10	Is the San  Dominant Species?	npled Area w Wetland?	De Number of Dor That Are OBL,	yes X No	workshe	1 (A)
tydric Soil Present?  No X No	olute % over 10	Dominant Species?	Indicator Status	Do Number of Dor That Are OBL,	ominance Test minant Species FACW, or FAC of Dominant	workshe	1 (A)
Remarks:  VEGETATION - Use scientific names of plants  Absc.  Absc.  1. Pinus jeffreyii  2. Abies concolor  3. 4.  Sapling/Shrub Stratum (Plot size. )  1.	olute % over 10	Dominant Species?	Indicator Status	Number of Dor That Are OBL, Total Number	minant Species FACW, or FAC	: :	1 (A)
VEGETATION - Use scientific names of plants  Abec  Iree Stratum (Plot size: ) Cc  1. Pinus jeffreyii	10 5	Species?	Status -	Number of Dor That Are OBL, Total Number	minant Species FACW, or FAC	: :	1 (A)
Tree Stratum (Plot size: ) Co	10 5	Species?	Status -	Number of Dor That Are OBL, Total Number	minant Species FACW, or FAC	: :	1 (A)
Iree Stratum (Plot size: ) Co	10 5	Species?	Status -	Number of Dor That Are OBL, Total Number	minant Species FACW, or FAC	: :	1 (A)
1 Pinus jeffreyii 2 Abies concolor 3. 4. Saplina/Shrub Stratum (Plot size. ) 1.	10 5	Species?	Status -	Number of Dor That Are OBL, Total Number	minant Species FACW, or FAC	: :	1 (A)
1 Pinus jeffreyii 2 Abies concolor 3. 4 Seplina/Shrub Stratum (Plot size	5			That Are OBL,	FACW, or FAC	C:	
2. Abies concolor 3. 4  Sapling/Shrub Stratum (Plot size. ) 1	5	Total Cover	-	Total Number	of Dominant		
3. 4. Sapling/Shrub Stratum (Plot size. ) 1.	15	Total Cover				_	1 (B)
Septing/Shrub Stratum (Plot size. ) 1.	15	Total Cover		Species Acros	a All Strata:		1 (B)
Septing/Shrub Stratum (Plot size. ) 1)	15	Total Cover					
1.				Descent of Des	ninant Species		
2					FACW, or FAC		00% (A/B)
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
3.							
4.							
5.	^	*		-	evalence Index	u unarkah a	a mitt
	0	Total Cover					
Herb Stretum (Plot size: )  1 Rumex acetoselle	5		FACU	Total % Cover OBL species		Multiply b	0
2. Bromus tectorum	5		-	FACW species		x 2 =	0
3. Hypericum perforatum	5		FACU	FAC species	30	x 3 =	90
4. Carex fracta	30	X	FAC	FACU species	15	x4=	90
5. Leptosiphon cilietus	1		~	UPL species		x 5 =	0
6.				Column Totals	: 45	(A)	150 (B
7. Achilles millefolium	5		FACU				
8.				Prevalenc	e Index = B/A	=	3.33
	51	Total Cover					
Woody Vine Stratum (Ptot size:				Hydro	phytic Vegeta	tion Indic	ators:
1.				-	ce Test is >509		
2					e Index is ≤3.0		
	0	Total Cover			gical Adaptation		
					emarks or on a		
% Bere Ground in Herb Stretum 15	% Co	over of Biotic (	Crust	Problema	tic Hydrophytic	Vegetatio	on¹ (Explain)

Western Mountains, Valleys and Coast Region

SOIL								Sampling Point:	WD-5
		needed	to document the Indica			absence	of Indicators.)		
Depth	Matrix			x Featu					
(inches)	Calor (moist)	%	Color (moist)	%	Туре	roc,	Texture	Remarks	
10	YR 4/4	100					sandy		
				_					
				_					
Type, C=Concer bation.	D=Legislor RM=Reduce	d Mikrix	<sup>2</sup> Location FL=Pcr3 Linin	g, <del>२८=</del> २:	oct Chartel,	M=Malin.			
							maral.		
•		Rs, uni	ess otherwise noted.) Ir	naic acor	s for Prob	ematic my	one sous:		
Histosol (A1)	_		Sendy Redox (S5)				_		
Histic Epiped			Stripped Matrix (S6)				2 cm Muck (A1		
Black Histic (	(A3)		Loamy Mucky Mineral(	F1)			_ Very Shallow D	ark Surface	
Hydrogen Su			Loamy Gleyed Matrix (	F2)			Red Parent Mel		
BALL .	ow Dark Surface (A11		Depleted Matrix (F3)			-	Other (Explain i	n Remarks)	
Thick Dark S	ow Dark Surface (A11)		Redox Dark Surface (F Depleted Dark Surface			5	and the second second		and be selected
Sandy Mucky			Redax Depressions (F					egetation and wetls sturbed or problems	
Sandy Gleye				,				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Restrictive Layer (if	present):			_					
Туре:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								
Depth (inches):					Hydric 8d	oll Present	? Yes	No X	
		-							
HYDROLOGY Wetland Hydrology In	efficators:								
	nimum of one required:	check al	that apply)				Secondary Indica	itors (2 or more requ	ired)
Surface Water (A		CITOCH W	Selt Crust (B11)					ned Leaves	
High Water Table		-	Water Stained Leaves				Raised An		
	(AZ)		_				_	ve Hummocks	
Saturation (A3)		_	Aquetic Invertebrates						
Water Marks (B1)			Hydrogen Sulfide Odo					Patterns (B10)	
Sediment Deposit	ts (B2)	_	Oxidized Rhizosphere	s along l	iving Room	s (C3)		n Water Table (C2)	
Drift Deposits (B3	)	_	Presence of Reduced	Iron (C4	)			urrows (C8)	
Surface Soil Crac	ks (B6)	_	Recent Iron Reduction	in Tillec	Soils (C8)		Saturation	Visible on Aerial Im	agery (C2)
Inundation Visible	on Aerial Imagery (B7	)	Stunted or Stressed P	lants			Shallow A	quitard (D3)	
Sparslet Vegetate	d Concave Surface		Other (Explain in Rem	arks)			FAC-Neut	ral Test (D6)	
Algal Mat or Crus	t						Geamarph	ic Position	
Iron Deposits									
Field Observations:									
Fleid Observations: Surface Water Presen	PI Van Na V	Danth (	meh en)						
Water Table Present?		Depth (i	nches)		Wetland	Hydrolog	Present? Yes	No X	
Saturation Present?		Depth (i				,			
(includes capillary fring									
Describe Recorded Da	ata (stream gauge, mon	itoring w	ell, sensi photos, previou	s inspec	tions), if av	milable:			
			Protect by Asian	7.0					
Remarks:									

US Army Corp of Engineers

Sierra Ecosystem Associates Preliminary Wetland Delineation Western Mountains, Valleys and Coast Region

							jion
Project/Site: Union Valley			City/County:	El Dorado	Sampling	Date: 6/20/20	24
opplicant/Owner: Michael Kuhl					npling Point: WD-1		
nvestigator(s): Jeremy Waites, S	ummer Abel		Section, 1	ownship. Rang	ge: Section 16, T12	N. R14E	
andform (hillslope, terrace, etc.):	hillslope	0	Local relia	f (concave, co	nvex, none): none	Si	lope (%):
ubregion (LRR): D		Latitud	le: 38.87948	Longitud	e: -120.4142 Datur	n: WGS84	
oil Map Unit Name: Pilliken coa	rse sandy loam, 5 to 30 p	ercent slope		NWI clas	sification: None		
re climatic / hydrologic conditions	on the site typical for this	time of year?		Yes X N	o (If no, explain in	Remarks.)	
re Vegetation, Soil	, or Hydrologysig	gnificantly dis	turbed?		mal Circumstances" pre-		No
	, or Hydrology ne			(If needs	d, explain any answers i	n Remarks.)	
UMMARY OF FINDINGS - Attac	h site map showing sar	nolina point	locations, tr	ansects, Impo	ortant features, etc.		
ydrophytic Vegetation Present?		lo X					
ydric Sall Present?		No X	is the Sa	mpled Area w Wetland?	ithin a Yes_	No X	
etland Hydrology Present?	YesN	No X		AA CELONINA I			
emarks;							
EGETATION - Use scient	ific names of plant	S					
		Absolute %	Dominant	Indicator	==	nce Test works	heet:
1. Pinus jeffreyii	)	Cover 25	Species?	Status	Number of Dominant That Are OBL, FACV		0 (A)
		40			HIN ME OBE, FACE		(1)
3					Total Number of Dor	ninant	
4.					Species Across All S	trata:	1 (B)
	_	25	Total Cover		Percent of Dominant	Ensaign	
apling/Shrub Stratum (Plot size 1	)				That Are OBL. FACV		0% (A/B)
					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_	( )
3.	_						
4.							
6.							
	_	0	Total Cover			ice index works	
1. Carex fracts	)	5		FAC	Total % Cover of: OBL species	0 x 1 =	y b <u>y:</u>
2. Stipe occidentallis		15	Y		FACW species	0 x 2 =	0
3. Rumex acetosella		15		FACU	FAC species	5 x3=	15
4. Madie elegans	-	5			FACU species	15 x4=	60
5. Leptosiphon cilietus		1			UPL species	x 5 =	0
6 Lupinus fulcratus		1			Calumn Tatals:	20 (A)	75 (B)
7					Oddini rotala.	20 (7)	
0					Prevalence indu	~ = D/A =	3.75
0.		40	Y-1-1 6		Prevalence mos	- D/A -	3.70
V-11.00 00 00 00 00 00 00 00 00 00 00 00 00		42	Total Cover		44	Vegetation Ind	Mantara
	)					-	INCHEOF S.
Voody Vine Stratum (Plot size:					Dominance Tes	# 15 >5U%	
Voody Vine Stratum (Plot size:						1	
1 Plot size:		0	Total Co		Prevalence Inde		vide supporting
1		0	Total Cover		Prevalence Inde	ex is ≤3.0 <sup>1</sup> Adaptations (Pro s or on a separat	
1 2 Bare Ground in Herb Stratum	50		Total Cover	Cruet	Prevalence Inde Morphological / data in Remark	deptations (Pro	te sheet)

Sierra Ecosystem Associates Preliminary Wetland Delineation

BOIL							Sampling Point:	WD-1
roffle Description	n: (Describe to the depth r	eeded to document the in	dicator or o	onfirm the	absence	of Indicators.)		
Depth	Metrix		Redox Feats	ires				
(inches)	Calar (moist)	% Color (moist)	%	Туре	LOC2	Texture	Remarks	
2	10 YR 3/2	100				sandy		
								-
Type, C=Concertrat	tur D=Depleton RM=Reduced	Vitra <sup>2</sup> Location FL=2cra	uring, RC=R	oct Charnel, t	M=Matou.			
lydric Soll Indica	tors: (Applicable to all LRI	Rs, unless otherwise note	d.) Indicato	s for Proble	ematic Hy	rdric Solls':		
Histosol (	_	Sendy Redox (S5)						
	ipedon (A2)	Stripped Matrix (S				2 cm Muck (A1		
Black His	gic (A3)	Loamy Mucky Min	eral(F1)			Very Shallow D		
	Sulfide (A4)	Loamy Gleyed Ma				Red Parent Mai	, ,	
	Below Dark Surface (A11	Depleted Matrix (F				Other (Explain i	n Remarks)	
	rk Surface (A12) Balow Derk Surface (A11)	Redax Dark Surfa Depleted Dark Su			Shafaata		regetation and wetla	nd hudrolo
	ucky Mineral (S1)	Redox Depression					isturbed or problems	
	leyed Matrix (S4)							
Restrictive Laye	r (If present):							
Туре:								
Depth (inches	):			Hydric So	M Presen	? Yes	Mo_X	_
Remarks:								
HYDROLOGY								
Wetland Hydrolog	**							
	(minimum of one required; c				_		ators (2 or more requ	irea)
Surface Wate		Selt Crust (B11)					ined Leaves	
High Water Ta	able (A2)	Weter Stained Le	8785			Raised An	t Mounds	
Saturation (A	3)	Aquatic Invertabra	ites (B13)			Frost Heav	ve Hummocks	
Water Marks	(B1)	Hydrogen Sulfide	Odor (C1)			Drainage (	Patterns (B10)	
Sediment Dep	posits (B2)	Oxidized Rhizospi	heres along	Living Roots	(C3)	Dry-Sesso	on Water Table (C2)	
Drift Deposits	(B3)	Presence of Redu	ced Iron (C4	1)		Crayfish B	urrows (CB)	
Surfece Soil C	Cracks (B6)	Recent Iron Redu	ction in Tille	d Solle (C6)		Saturation	Visible on Aerial Ima	igery (C2)
Inundation Vis	sible on Aerial Imagery (B7)	Stunted or Stress	ed Plents			Shallow A	quitard (D3)	
_	stated Concave Surface	Other (Explain in					rai Test (D5)	
Algal Mat or C		Cried (Expens) III	requirements)				ic Position	
Iron Deposits		_				Geomorph	IIC POSIDON	
ног Бербака								
Field Observation	ns:							
Surface Water Pre		Pepth (inches)						
Water Table Prese		Pepth (inches)		Wetland I	Hydrolog	Present? Yes	Mo X	
Saturation Present (includes capillary		Pepth (inches)						
(microoes capmary	ляіде)							
Describe Recorde	d Data (stream gauge, monit	oring well, aerial photos, pre	evious inspe	ctions), if av	nilable:			
Remarks:		2000						

Western Mountains, Valleys and Coast Region

#### WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys and Coast Region Project/Site: Union Valley Sampling Date: 6/20/2024 City/County: El Dorado Applicant/Owner: Michael Kuhl State: CA Sempling Point: WD-1 investigator(s): Jeremy Waites, Summer Abel Section, Township, Range: Section 16, T12N, R14E Landform (hilfstope, terrace, etc.): hillstope Local relief (concave, convex, none): none Latitude: 38.879483 | Longitude: -120.4142 | Deturn: WGS84 Subregion (LRR): D Soil Map Unit Name: Pilliken coarse sandy loam, 5 to 30 percent slopes NWI classification: None Yes X No (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No X No X is the Sampled Area within a Hydric Soil Present? Yes No X Hydric Soil Present? Wetland Hydrology Present? Wetland? Yes\_\_\_No\_X VEGETATION - Use scientific names of plants Absolute % Dominant Indicator Tree Stratum (Plot size: **Number of Dominant Species** Status Caver Species? That Are OBL, FACW, or FAC: 1. Abies concolor 50 2. Calocedrus decurrens 10 Total Number of Dominant Species Across All Strata: 60 Total Cover apling/Shrub Stratum (Plot size: Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B) Total Cover Prevalence Index worksheet: Herb Stratum (Plot size: Total % Cover of: 0 x 1 = 0 x 2 = 1. Viola adunca OBL species 2. Adenocaulon bicolor FACW species 1 x 3 = 3. Fragaria virginiana FACU FAC species 20 4. Sphagnum ssp. 25 x 5 = 0 UPL species 23 (B) Column Totals: 6 (A) Prevalence Index = B/A = 3.83 Total Cover Naody Vine Stratum (Plot size: Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.01 Morphological Adaptations (Provide supporting 0 Total Cover data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) % Bare Ground in Herb Stratum 50 % Cover of Biotic Crust Hydrophytic Vegetation Present? Yes \_\_\_\_\_No X

Western Mountains, Valleys and Coast Region

SOIL								Sampling Point	
Profile Description: (Desc	cribe to the depth n	eeded to do	cument the indica	tor or confl	irm the abse	nce of Indic	ators.)		
Depth	Matrix		Red	ox Features					
(inches) C	olor (moist)	% C	olor (moist)	% T	ype LC	C <sup>2</sup> Text	976	Remark	s
2 2.5 YR	3/2	100				sand	y loam		
Type: C=Concertration, E=De	elaler RM=Pagreul	Midne Thre	duon FL=Peralur	ic acreands	harnet M=Ma	Ira			
1700. C-Concertator, L-Di	Plates No -dackean	Seguite. Loc	SOUN FEMALES DE L	9, 12-1361	tier net, or the				
Hydric Soll Indicators: (A	pplicable to all LRI	Rs, unless of	therwise noted.) I	ndicators fo	r Problemat	ic Hydric Se	olls <sup>3</sup> :		
Histosol (A1)			dy Redox (S5)						
Histic Epipedon (/	A2)		ped Matrix (S6)			2 cm	Muck (A10)	(LRR B)	
Black Histic (A3)	_		my Mucky Mineral	F1)		Verv	Shallow Da	rk Surface	
	-				_		Parent Mate		
Hydrogen Sulfide Depleted Below D			my Gleyed Matrix ( leted Matrix (F3)	(-2)	_		(Explain in	,	
Thick Dark Surface			lox Dark Surface (	F6)	_		(CApitali ile	Translation,	
	Dark Surface (A11)	-	eted Dark Surface		3 Incl	cators of hy	dronhytic ve	getation and we	tland hydrol
Sandy Mucky Min	_		lax Depressions (F					turbed or probler	
Sandy Gleyed Ma	itrix (S4)								
Restrictive Layer (If pres	sent):								
Туре:									
				Hy	ydric Soli Pro	esent?	Yes	No_	x
Туре:				Ну	ydric Soli Pro	esent?	Yes	No	<u>x</u>
Тура:				Ну	ydric Soli Pro	esent?	Yes	No	<u>x</u>
Type: Depth (inches):				Ну	ydric Soll Pro	ment?	Yes	No	x
Type: Depth (inches):				Ну	ydric Soli Pro	esent?	Yes	No	<u>x</u>
Type: Depth (inches): Remarks:				Ну	ydric Soli Pro	esent?	Yes	No	<u>x</u>
Type: Depth (inches):  Remarks:  HYDROLOGY Wetland Hydrology Indice				Ну	ydric Soll Pro				
Type: Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Indice		heck all that a	uppły)	Ну	ydric Soli Pro			No	
Type: Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Indice			apply) Crust (B11)	Ну	ydric Soli Pro	Secon		ors (2 or more re	
Type: Depth (inches):  Remarks:  HYDROLOGY Wetland Hydrology Indice Primary Indicators (minimu	m of one required; c	Salt			ydric Soli Pro	Secon	dary Indicate	ors (2 or more re	
Type: Depth (inches):  Remarks:  HYDROLOGY Wetland Hydrology Indice Primary Indicators (minimu Surface Water (A1) High Water Table (A2)	m of one required; c	Salt	Crust (811) ter Stained Leaves		ydric Soli Pro	Secon	dary Indicate Water Stain Raised Ant	ors (2 or more re	
Type: Depth (inches):  Remarks:  HYDROLOGY  Wetland Hydrology Indice Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Seturation (A3)	m of one required; c	Salt	Crust (811) ter Stained Leaves satic Invertebrates	(B13)	ydric Soli Pro	Secon	dary Indicate Water Stain Raised Ant I	ors (2 or more re ed Leaves Mounds Hummocks	
Type: Depth (inches):  Remarks:  HYDROLOGY Wetland Hydrology Indice Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1)	m of one required; c	Salt Wal Aqu Hyd	Crust (811) ter Stained Leaves atic Invertebrates irogen Sulfide Odo	(B13) r (C1)		Secon	dary Indicate Water Stain Raised Anti Frost Heave Drainage Pr	ors (2 or more re ed Leaves Mounds - Hummocks atterns (810)	quired)
Type: Depth (inches):  Remarks:  HYDROLOGY Wetland Hydrology Indice Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) Sediment Deposits (B	m of one required; c	Salt Wal Aqu Hyd	Crust (811) ter Steined Leaves setic Invertebrates trogen Sulfide Odo dized Rhizosphere	(B13) r (C1) s along Livin		Secon	dary Indicate Water Stain Raised Ant I Frost Heave Drainage Pr	ors (2 or more re ed Leaves Mounds Hummocks atterns (810) Water Table (C:	quired)
Type: Depth (inches):  Remarks:  HYDROLOGY Wetland Hydrology Indice Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3)	m of one required; c	Salt Wal Aqu Hyd Oxic	Crust (811) ter Steined Leaves etic Invertebrates ingen Sulfide Odo dized Rhizosphere sence of Reduced	(B15) r (C1) s stong Livin lron (C4)	ng Roots (C3)	Secon	dary Indicate Water Stain Raised Ant I Frost Heave Drainage Pr Dry-Sesson Craylish Bu	ors (2 or more re ed Leaves Mounds • Hummocks atterns (810) Water Table (C: rrows (C8)	quired)
Type: Depth (inches):  Remarks:  HYDROLOGY Wetland Hydrology Indice Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) Sediment Deposits (B	m of one required; c	Salt Wal Aqu Hyd Oxic	Crust (811) ter Steined Leaves setic Invertebrates trogen Sulfide Odo dized Rhizosphere	(B15) r (C1) s stong Livin lron (C4)	ng Roots (C3)	Secon	dary Indicate Water Stain Raised Ant I Frost Heave Drainage Pr Dry-Sesson Craylish Bu	ors (2 or more re ed Leaves Mounds Hummocks atterns (810) Water Table (C:	quired)
Type: Depth (inches):  Remarks:  HYDROLOGY  Wetland Hydrology Indice Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3)	m of one required, cl )  2)	Salt Wal Aqu Hyd Oxic	Crust (811) ter Steined Leaves etic Invertebrates ingen Sulfide Odo dized Rhizosphere sence of Reduced	(B13) r (C1) s along Livin Iron (C4) in Täled So	ng Roots (C3)	Secon	dary Indicate Water Stain Raised Ant I Frost Heave Drainage Pr Dry-Sesson Craylish Bu	ors (2 or more re ed Leaves Mounds • Hummocks atterns (810) Water Table (C: rrows (C8)	quired)
Type: Depth (inches):  Remarks:  HYDROLOGY  Wetland Hydrology Indice Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) Surface Soil Cracks (E Inundation Visible on A	m of one required, cl ) 2) 36) Aerial Imagery (87)	Salt Wal Aqu Hyd Oxid	Crust (B11) ter Steined Leaves uitic Invertebrates inogen Sulfide Odo dized Rhizosphere sence of Reduced cent Iron Reduction nted or Stressed P	(B13) r (C1) s along Livin Iron (C4) in Täled Sol	ng Roots (C3)	Secon	dery Indicate Water Stain Raised Ant I Frost Heave Drainage Pr Dry-Sesson Crayfish Bu Saturation \	ors (2 or more re ed Leaves Mounds Hummocks atterns (810) Water Table (C: rrows (C8) //sible on Aerial I	quired)
Type: Depth (inches):  Remarks:  HYDROLOGY  Wetland Hydrology Indice Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) Sediment Deposits (B) Drift Deposits (B3) Surface Soil Cracks (E) Inundation Visible on A	m of one required, cl ) 2) 36) Aerial Imagery (87)	Salt Wal Aqu Hyd Oxid	Crust (B11) ter Steined Leaves setic Invertebrates inogen Sulfide Odo dized Rhizosphere sence of Reduced ent Iron Reduction	(B13) r (C1) s along Livin Iron (C4) in Täled Sol	ng Roots (C3)	Secon	dary Indicate Water Stain Reised Ant I Frost Heave Drainage Pa Dry-Sesson Craylish Bu Seturation \ Shallow Aqa	ors (2 or more re ed Leaves Mounds Hummocks atterns (810) Water Table (C: rrows (C8) //sible on Aerial I ultard (D3)	quired)
Type: Depth (inches):  Remarks:  HYDROLOGY Wetland Hydrology Indice Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) Surface Soil Cracks (6 Inundation Visible on A Sparslet Vegetated Cc Algal Mat or Crust	m of one required, cl ) 2) 36) Aerial Imagery (87)	Salt Wal Aqu Hyd Oxid	Crust (B11) ter Steined Leaves uitic Invertebrates inogen Sulfide Odo dized Rhizosphere sence of Reduced cent Iron Reduction nted or Stressed P	(B13) r (C1) s along Livin Iron (C4) in Täled Sol	ng Roots (C3)	Secon	dary Indicate Water Stain Raised Ant I Frost Heave Drainage Pa Dry-Sesson Craylish Bu Seturation \ Shallow Aqu	ors (2 or more re ed Leaves Mounds Hummocks atterns (810) Water Table (C: rrows (C8) //sible on Aerial I ultard (D3)	quired)
Type: Depth (inches):  Remarks:  HYDROLOGY  Wetland Hydrology Indice Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) Sediment Deposits (B) Drift Deposits (B3) Surface Soil Cracks (E Inundation Visible on I	m of one required, cl ) 2) 36) Aerial Imagery (87)	Salt Wal Aqu Hyd Oxid	Crust (B11) ter Steined Leaves uitic Invertebrates inogen Sulfide Odo dized Rhizosphere sence of Reduced cent Iron Reduction nted or Stressed P	(B13) r (C1) s along Livin Iron (C4) in Täled Sol	ng Roots (C3)	Secon	dary Indicate Water Stain Reised Ant I Frost Heave Drainage Pa Dry-Sesson Craylish Bu Seturation \ Shallow Aqa	ors (2 or more re ed Leaves Mounds Hummocks atterns (810) Water Table (C: rrows (C8) //sible on Aerial I ultard (D3)	quired)
Type: Depth (inches):  Remarks:  HYDROLOGY Wetland Hydrology Indice Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Seturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) Surface Soil Cracks (6 Inundation Visible on A Sparslet Vegetated Cc Algal Mat or Crust	m of one required, cl ) 2) 36) Aerial Imagery (87)	Salt Wal Aqu Hyd Oxid	Crust (B11) ter Steined Leaves uitic Invertebrates inogen Sulfide Odo dized Rhizosphere sence of Reduced cent Iron Reduction nted or Stressed P	(B13) r (C1) s along Livin Iron (C4) in Täled Sol	ng Roots (C3)	Secon	dary Indicate Water Stain Reised Ant I Frost Heave Drainage Pa Dry-Sesson Craylish Bu Seturation \ Shallow Aqa	ors (2 or more re ed Leaves Mounds Hummocks atterns (810) Water Table (C: rrows (C8) //sible on Aerial I ultard (D3)	quired)
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US Army Corp of Engineers

Western Mountains, Valleys and Coast Region

#### WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys and Coast Region Project/Site: Union Valley City/County: El Dorado Sampling Date: 6/20/2024 State: CA Sampling Point: WD-8 Applicant/Owner: Michael Kuhl

Investigator(s): Jeremy Wakes, Summer Abel Section, Township, Range: Section 16, T12N, R14E Landform (hittalope, terrace, etc.): meadow Local relief (concave, convex, none): none Slope (%): Subregion (LRR): D Soil Map Unit Name: Pilliken coarse sandy loam, 5 to 30 percent slopes NWI classification: Freshwater emergent

Are diamatic / hydrologic conditions on the site typical for this time of year?

Are Vegetation , Soil , or Hydrology significantly disturbed?

Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any enswers in Remarks.)

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

Is the Sampled Area within a Yes X No\_ Wetland?

VECETATION . Use scientific names of plants

	Absolute %	Dominant	Indicator	Domine	nce Test workshi	ret:
ee Stratum (Plot size: )	Cover	Species?	Status	Number of Dominan	t Species	
1.				That Are OBL, FAC	N, or FAC:	1 (A)
2.						
3.				Total Number of Do		
4				Species Across All S	Streta:	1 (B)
	0	Total Cover				
pling/Shrub Stratum (Plot size:)				Percent of Dominan		000/ (A/D)
1. Alnus incene ssp. tenuifolie	5		FACW	That Are OBL, FACT	N, of FAC:	00% (A/B)
3						
6.						
	5	Total Cover		Prevale	nce Index worksh	eet:
erb Stratum (Plot size: )				Total % Cover of:	Multiply	by:
1 Carex utriculata	50	Υ	OBL	OBL species	61 x 1 =	61
2. Scirpus microcarpus	10		OBL	FACW species	6 x 2 =	12
Veratrum californicum	5		FAC	FAC species	5 x3=	15
4. Erythranthe guttata	. 1		OBL	FACU species	32 × 4 =	128
5 Epilobium angustifolium	3			UPL species	x 5 =	0
6. Camessie leichtlinii ssp. suksdorfii	1		FACW	Column Totals:	104 (A)	218
7						
8				Prevalence Inde	x = B/A =	2.08
	70	Total Cover				
(oody Vine Stratum (Plot size:				Hydrophyti	c Vegetation Indi	cators:
1				X Dominance Te	st is >50%	
2.				X Prevalence Ind		
	0	Total Cover			Adaptations (Provi	de supportir
				data in Remerk	is or on a separate	sheet)
Bare Ground in Herb Stratum 0	% C	over of Biotic	Crust	Problematic Hy	drophytic Vegetati	on' (Explain
Bare Ground in Herb Stratum 0  Hydrophytic Vegetation Present? YesXNo	% C	over of Biotic	Crust			

Western Mountains, Valleys and Coast Region

	Matrix		F	Redox Feats	res			
(inches)	Calor (moist)	%	Color (moist)	%	Type	LOC2	Texture	Remarks
) Inches	7.5 YR 2.5/1	100	Color (moral)		1,700		Loam	
	7.5 1 1 2.0/1	100					LOBITI	
Type, C=Concertra	tor E-Deplace RM+Recurs	ed Matrix,	ZLocation FL=Pers	# rig. ₹C=₹	oct Charnel,	M=Matrix		
selds that bades	ntors: (Applicable to all Li	DDa		t i to die ete	o for Brob	Jamette M	edela Califa <sup>3</sup> :	
Histosol		RRS, UNI	Sandy Radox (S5)	1.) indicato	\$ 101 P100	nemauc ny	dic sous .	
	pipedon (A2)	X	Stripped Matrix (S6	9			2 cm Muck (A1	(O) (LRR B)
X Black Hi			Loamy Mucky Mine				Very Shallow [	
			_				Red Parent Ma	
	n Sulfide (A4) d Below Derk Surface (A11		Loamy Gleyed Met Depleted Matrix (F.				Other (Explain	( /
	ark Surface (A12)		Redax Dark Surfec				Olive (Explain	at tournation,
	Below Dark Surface (A11)		Depleted Dark Sur			<sup>5</sup> Indicator	rs of hydrophytic	vegetation and wetland hydro
	lucky Mineral (S1)		Redax Depression	s (F8)				disturbed or problematic.
Sandy G	ileyed Matrix (S4)		_					
Destalation I ma								
Restrictive Laye								
					Hydric 8	oll Present	t? Yes	XNo
Type: Depth (inches Remerks:	n):				Hydric 8	oil Preseni	t? Yes	X No
Type: Depth (inches Remerks:  HYDROLOGY Wetland Hydrolo	gy Indicators:	check all	that apply		Hydric 8	oli Preseni		
Type: Depth (inches Remarks:  HYDROLOGY Wetland Hydrolo Primary Indicators	gy Indicators:	check all			Hydric 8	oil Present	Secondary Indic	ators (2 or more required)
Type: Depth (inches Remarks:  HYDROLOGY Netland Hydrolo Primary Indicators Surface Water	gy Indicators: (minimum of one required: er (A1)	check all	Salt Crust (B11)		Hydric 8	oli Preseni	Secondary Indic	ators (2 or more required) ined Leaves
Type: Depth (inches Remerks:  HYDROLOGY Vetland Hydrolo Primary Indicators Surface Wate High Water 1	gy Indicators: (minimum of one required; er (A1) (able (A2)	check all	Salt Crust (B11) Water Stained Les		Hydric 8	oli Preseni	Secondary Indic	ators (2 or more required) ined Leaves nt Mounds
Type: Depth (inches Remarks:  HYDROLOGY Netland Hydrolo Primary Indicators Surface Watu High Water T Saturation (A	gy Indicators: (minimum of one required: er (A1) able (A2)	check all	Salt Crust (B11) Water Stained Lea Aquatic Invertebra	tes (B13)	Hydric 8	oil Presen	Secondary Indic Water Sta Reised Au Frost Hea	ators (2 or more required) ined Leaves nt Mounds ave Hummocks
Type: Depth (inches Remarks:  HYDROLOGY Netland Hydrolo Primary Indicators Surface Watu High Water T Seturation (A Water Marks	gy Indicators: (minimum of one required: er (A1) (able (A2) (B1)	check all	Salt Grust (B11) Water Stained Lea Aquatic Invertebral Hydrogen Sulfide (	des (B13) Odor (C1)			Secondary Indic Water Sta Raised Ar Frost Hea	ators (2 or more required) ined Leaves nt Mounds eve Hummocks Patterns (810)
Type: Depth (inches Remarks:  HYDROLOGY Netland Hydrolo Primary Indicators Surface Watt High Water T Seturation (A Water Marks Sediment De	gy Indicators: (minimum of one required: er (A1) able (A2) (B1) posits (B2)	check all	Salt Crust (B11) Water Steined Lea Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph	tes (B13) Odor (C1) erres along	Living Root		Secondary Indic Water Sta Raised Ar Frost Hea Drainage Dry-Sees	ators (2 or more required) inted Leaves int Mounds ive Hummocks Patterns (B10) on Water Table (C2)
Type: Depth (inches  Remarks:  HYDROLOGY  Netland Hydrolo  Primary Indicators  Surface Watu  High Water II  Saturation (A  Water Marks	gy Indicators: (minimum of one required: er (A1) able (A2) (B1) posits (B2)	check all	Salt Grust (B11) Water Stained Lea Aquatic Invertebral Hydrogen Sulfide (	tes (B13) Odor (C1) erres along	Living Root		Secondary Indic Water Str Raised Ar Frost Hea Drainage Dry-Seas Craylish I	ators (2 or more required) inted Leaves int Mounds ive Hummocks Petterns (B10) on Water Table (C2) Burrows (C8)
Type: Depth (inches Remarks:  HYDROLOGY Netland Hydrolo Primary Indicators Surface Watt High Water T Seturation (A Water Marks Sediment De	gy Indicators: (minimum of one required: er (A1) able (A2) 3) (B1) posits (B2) a (B3)	check all	Salt Crust (B11) Water Steined Lea Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph	tes (B13) Odor (C1) eres along ced Iron (C4	Living Root	is (CS)	Secondary Indic Water Str Raised Ar Frost Hea Drainage Dry-Seas Craylish I	ators (2 or more required) inted Leaves int Mounds ive Hummocks Patterns (B10) on Water Table (C2)
Type: Depth (inches  Remarks:  HYDROLOGY  Netland Hydrolo  Primary Indicators  Surface Wate  High Water T  Seturation (A  Water Marks  Sediment De  Drift Deposits  Surface Soil	gy Indicators: (minimum of one required: er (A1) able (A2) 3) (B1) posits (B2) a (B3)		Salt Crust (811) Water Stained Les Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc	les (B13) Odor (C1) eres along ced Iron (C4 tion in Tille	Living Root	is (CS)	Secondary Indic Water Sta Raised Ar Frost Hea Drainage Dry-Sea s Craylish E Saturation	ators (2 or more required) inted Leaves int Mounds ive Hummocks Petterns (B10) on Water Table (C2) Burrows (C8)
Type: Depth (inches  Remarks:  HYDROLOGY  Wetland Hydrolo  Primary Indicators  Surface Wate High Water T  Seturation (A  Water Marks  Sediment De  Drift Deposits  Surface Soil  Inundation Vi	gy Indicators: (minimum of one required: er (A1) able (A2) (B1) poeits (B2) a (B3) Cracks (B6)		Salt Crust (B11) Water Stained Lea Acquatic Invertebrai Hydrogen Sulfide ( Oxidized Rhizosph Presence of Redu Recent Iron Reduc	les (B13) Odor (C1) eres along ced Iron (C4 stion in Tilled ed Plants	Living Root	is (CS)	Secondary Indic Water Str Reised Ar Frost Hea Drainage Dry-Sea s Craylish E Saturation Shellow A	ators (2 or more required) inted Leaves nt Mounds ive Hummocks Petterns (B10) on Water Table (C2) Burrows (C6) n Visible on Aerial Imagery (C2)
Type: Depth (inches Remerks:  HYDROLOGY Netland Hydrolo Primary Indicators Surface Wate High Water T Seturation (A Water Marks Sediment De Drift Deposits Surface Soil Inundation Vi	gy Indicators: (minimum of one required: er (A1) able (A2) 3) (B1) posits (B2) a (B3) Cracks (B6) mibble on Aerial Imagery (B3) etated Concave Surface		Salt Crust (B11) Water Stained Las Acquatic Invertebral Hydrogen Sulfide ( Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse	les (B13) Odor (C1) eres along ced Iron (C4 stion in Tilled ed Plants	Living Root	is (CS)	Secondary Indic Water Sta Raised Ar Frost Hea Drainage Dry-Sea s Craylish I Saturation Shellow A FAC-Neu	ators (2 or more required) inted Leaves int Mounds ive Hummocks Petterns (810) on Water Table (C2) Burrows (C6) in Visible on Aerial Imagery (C2) Aquitard (D3)
Type: Depth (inches  Remarks:  HYDROLOGY  Netland Hydrolo  Primary Indicators  Surface Watt  High Water T  Seturation (A  Water Marks  Sediment De  Drift Deposits  Surface Soil  Inundation Vi  Sparslet Veg	gy Indicators: (minimum of one required: (a) (B1) (B1) (B3) (Cracks (B6) (B8) (Cracks (B6) (Crac		Salt Crust (B11) Water Stained Las Acquatic Invertebral Hydrogen Sulfide ( Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse	les (B13) Odor (C1) eres along ced Iron (C4 stion in Tilled ed Plants	Living Root	is (CS)	Secondary Indic Water Sta Raised Ar Frost Hea Drainage Dry-Sea s Craylish I Saturation Shellow A FAC-Neu	ators (2 or more required) inted Leaves int Mounds ive Hummocks Petterns (810) on Water Table (C2) Burrows (C6) in Visible on Aerial Imagery (C2 Aquitand (D3) tral Test (D6)
Type: Depth (inches  Remarks:  HYDROLOGY Wetland Hydrolo Primary Indicators Surface Waturation (A Water Marks Sediment De Drift Deposits Surface Soil Inundation Vi Sparslet Veg Algal Mat or Iron Deposits	gy Indicators: (minimum of one required: er (A1) (able (A2) (3) (B1) (B2) (B3) Cracks (B6) (B3) Cracks (B6) (B1) (B1) (B3) Cracks (B6) (B1) (B3) Cracks (B6) (B3) Cracks (B6) (B3)		Salt Crust (B11) Water Stained Las Acquatic Invertebral Hydrogen Sulfide ( Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse	les (B13) Odor (C1) eres along ced Iron (C4 stion in Tilled ed Plants	Living Root	is (CS)	Secondary Indic Water Sta Raised Ar Frost Hea Drainage Dry-Sea s Craylish I Saturation Shellow A FAC-Neu	ators (2 or more required) inted Leaves int Mounds ive Hummocks Petterns (810) on Water Table (C2) Burrows (C6) in Visible on Aerial Imagery (C2 Aquitand (D3) tral Test (D6)
Type: Depth (inches  Remarks:  HYDROLOGY Wetland Hydrolo Primary Indicators Surface Watu High Water T Seturation (A Water Marks Sediment De Drift Deposits Surface Soil Inundation Vi Sparslet Veg Algal Mat or Iron Deposits Field Observatio Surface Water Pr	gy Indicators: (minimum of one required; er (A1) able (A2) 3) (B1) posits (B2) a (B3) Cracks (B6) mibble on Aerial Imagery (B) etated Concave Surface Crust is asent? Yeis No X	Depth (ir	Salt Crust (B11) Water Stained Lea Aquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in F	les (B13) Odor (C1) eres along ced Iron (C4 stion in Tilled ed Plants	Living Root ) d Soille (C6)	is (CS)	Secondary Indic Water Sta Reised At Frost Hea Drainage Dry-See s Craylish I Saturation Shellow A FAC-Neu Geomorp	ators (2 or more required) inted Leaves int Mounds ive Hummocks Petterns (810) on Water Table (C2) Burrows (C6) in Visible on Aerial Imagery (C2 Aquitand (D3) tral Test (D5) inic Position
Type: Depth (incher  Remarks:  HYDROLOGY Wetland Hydrolo Primary Indicators Surface Watt High Water 1 Saturation (Article) Surface Soil Inundation Vi Sparslet Veg Algal Mat or Iron Deposits Field Observatio Surface Water Pre	gy Indicators: (minimum of one required: er (A1) (able (A2) (3) (B1) posits (B2) (B3) Cracks (B6) (able on Aerial Imagery (B7) (able	Depth (in Depth	Salt Crust (B11) Water Stained Lea Aquatic Invertebrai Hydrogen Sulfide ( Oxidized Rhizosph Presence of Redu Recent Iron Reduc Sturbed or Stresse Other (Explain in F	les (B13) Odor (C1) eres along ced Iron (C4 stion in Tilled ed Plants	Living Root ) d Soille (C6)	is (CS)	Secondary Indic Water Sta Raised Ar Frost Hea Drainage Dry-Sea s Craylish I Saturation Shellow A FAC-Neu	ators (2 or more required) inted Leaves int Mounds ive Hummocks Petterns (810) on Water Table (C2) Burrows (C6) in Visible on Aerial Imagery (C2 Aquitand (D3) tral Test (D5) inic Position
Type: Depth (inches  Remarks:  HYDROLOGY Wetland Hydrolo Primary Indicators Surface Watt High Water T Saturation (A Water Marks Sediment De Drift Deposits Surface Soil Inundation Vi Sparslet Veg Algal Mat or Iron Deposit	gy Indicators: (minimum of one required: ar (A1) (able (A2) (3) (B1) posits (B2) (B3) Cracks (B6) (sible on Aerial Imagery (B) etated Concave Surface Crust (B1) (B2) (B3) (B3) (B3) (B4) (B4) (B4) (B4) (B5) (B6) (B6) (B6) (B6) (B6) (B7) (B7) (B7) (B7) (B7) (B7) (B7) (B7	Depth (in Depth	Salt Crust (B11) Water Stained Lea Aquatic Invertebrai Hydrogen Sulfide ( Oxidized Rhizosph Presence of Redu Recent Iron Reduc Sturbed or Stresse Other (Explain in F	les (B13) Odor (C1) eres along ced Iron (C4 stion in Tilled ed Plants	Living Root ) d Soille (C6)	is (CS)	Secondary Indic Water Sta Reised At Frost Hea Drainage Dry-See s Craylish I Saturation Shellow A FAC-Neu Geomorp	ators (2 or more required) inted Leaves int Mounds ive Hummocks Petterns (810) on Water Table (C2) Burrows (C6) in Visible on Aerial Imagery (C2 Aquitand (D3) tral Test (D5) inic Position
Type: Depth (inches  Remarks:  HYDROLOGY Wetland Hydrolo Primary Indicators Surface Watt High Water T Saturation (A Water Marks Sediment De Drift Deposits Surface Soil Inundation Vi Sparslet Veg Algal Mat or Iron Depositr Field Observatio Surface Water Pn Water Table Pras Saturation Presse Sinuration Presse (includes capillary	gy Indicators: (minimum of one required: ar (A1) (able (A2) (3) (B1) posits (B2) (B3) Cracks (B6) (sible on Aerial Imagery (B) etated Concave Surface Crust (B1) (B2) (B3) (B3) (B3) (B4) (B4) (B4) (B4) (B5) (B6) (B6) (B6) (B6) (B6) (B7) (B7) (B7) (B7) (B7) (B7) (B7) (B7	Depth (ir Depth (ir	Salt Crust (B11) Water Stained Las Acquatic Invertebra Hydrogen Sulfide ( Oxidized Rhizosch Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in F	tes (B13) Odor (C1) eres along ced fron (C4 ction in Tiller dd Plants Remarks)	Living Root ) I Soils (C8) Wetland	s (CS)	Secondary Indic Water Sta Reised At Frost Hea Drainage Dry-See s Craylish I Saturation Shellow A FAC-Neu Geomorp	ators (2 or more required) inted Leaves int Mounds ive Hummocks Petterns (810) on Water Table (C2) Burrows (C6) in Visible on Aerial Imagery (C2 Aquitand (D3) tral Test (D5) inic Position

Western Mountains, Valleys and Coast Region

#### WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys and Coast Region Project/Site: Union Valley City/County: El Dorado Sampling Date: 6/20/2024 Applicant/Owner: Michael Kuhl State: CA Sampling Point: WD-9 Section, Township. Range: Section 16, T12N, R14E Investigator(s): Jeremy Waites, Summer Abel Landform (hillstope, terrace, etc.): hillstope Local relief (concave, convex. none): none Slope (%): 1 Subregion (LRR): D Letitude: 38.87948311 Longitude: -120.4142 Deturn: WGS84 Soil Map Unit Name: Piliken coarse sandy loam, 5 to 30 percent slopes NWI classification: None Yes X No \_\_\_\_ (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Are Vegetation , Soll or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes? X No Are Vegetation . Soll or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) Are Vegetation \_\_\_\_\_ , or Hydrology \_\_\_\_naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. is the Sampled Area within a Hydric Soll Present? Yes X No Wetland Hydrology Present? Yes X No Yes X No Wetland? VEGETATION - Use scientific names of plants Dominance Test worksheet: Absolute % Dominant Indicator Iree Stratum (Plot size: **Number of Dominant Species** Status Cover Species? That Are OBL, FACW, or FAC: Pinus jeffreyii Total Number of Dominant Species Across All Strate: Total Cover apling/Shrub Stretum (Plot size: Percent of Dominant Species FAC That Are OBL, FACW, or FAC: 100% (A/B) 1. Rhododendron occidentale Total Cover Prevalence index worksheet: Total % Cover of: Herb Stratum (Plot size: OBL species 23 x 1 = 23 FACW species 13 x 2 = 26 FACW 1. Bistorte bistortoides OBL 2 Scirpus microcarpus 20 FAC species 42 x 3 = 126 3. Veratrum californicum FAC OBL FACU species 0 x 4 = 0 4. Enythranthe guttete 3 5. Pos pretensis FAC UPL species 0 x 5 = 0 FACW Column Totals: 79 (A) 175 (B) 6. Camassia leichthnii ssp. zukadorfii Prevalence index = B/A = 2.24 Total Cover Noody Vine Stratum (Plot size: Hydrophytic Vegetation Indicators: X Dominance Test is >50% X Prevalence Index is ≤3.01 Morphological Adaptations (Provide supporting 0 Total Cover data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) % Bare Ground in Herb Stratum % Cover of Biotic Crust Hydrophytic Vegetation Present? Yes X No

Western Mountains. Valleys and Coast Region

BOIL							Sampling Point:	WD-9
roffle Description	on: (Describe to the depth	needed	to document the indicator	or confirm the	e absence	of Indicators.)		
Depth	Matrix		Redox Fo	eatures				
(inches)	Calor (moist)	%	Color (moist) %	Туре	LOC2	Texture	Remarks	
2	7.5 YR 3/2	100				Mucky loam		
Type, C≕Concertra	al or , D=Depletor RM=Reduces	Motor	<sup>2</sup> Locetron FL=Pore Linnig, Ro	C=Roct Charmel	M=Matrix.			
ydric Soll Indica	ntors: (Applicable to all LR	Rs, uni	ess otherwise noted.) Indic	ators for Prob	dematic Hy	rdric Bolls <sup>3</sup> :		
X Histosol	(A1)		Sendy Redox (S6)			_		
Histic Ep	pipedon (A2)		Stripped Matrix (S6)			2 cm Muck (A1	0) (LRR B)	
Black Hi	stic (A3)	X	Loamy Mucky Mineral(F1)			Very Shallow D	ark Surface	
Hydroge	n Sulfide (A4)		Loamy Gleyed Matrix (F2)			Red Parent Mai	terial (TF2)	
	d Below Dark Surface (A11		Depleted Matrix (F3)			Other (Explain i	n Remarks)	
	ark Surface (A12)		Redax Dark Surface (F6)					
	d Below Derk Surface (A11) fucky Mineral (S1)		Depleted Dark Surface (F7 Redox Depressions (F8)	)			egetation and wetla sturbed or problems	
	Gleyed Matrix (S4)		redux pepressions (re)		THE ST LIST	present, university	statue da productio	
Restrictive Laye	er (if present):							
Туре:			_					
Depth (inches	s):			Hydric S	oll Presen	t? Yes	K No	_
HYDROLOGY Netland Hydrolo								
	(minimum of one required;	heck a	I that apply)			Secondary Indica	tors (2 or more requ	ired)
Surface Wate			Salt Crust (B11)				ned Leaves	
High Water T			Water Stained Leaves			Raised An		
Saturation (A		-	Aquatic Invertebrates (B13			_	re Hummocks	
Water Merks						_	Patterns (B10)	
		_	Hydrogen Sulfide Odor (C1		10.00			
Sediment De		_	Oxidized Rhizospheres ald		R (C3)		n Water Table (C2)	
Drift Deposits		-	Presence of Reduced Iron				urrows (CB)	(00
Surface Soil		_	Recent Iron Reduction in T		)		Visible on Aerial Ima	igery (C2)
_	isible on Aerial Imagery (B7)	_	Stunted or Stressed Plants	L .			quitard (D3)	
Sparslet Veg	etated Concave Surface		Other (Explain in Remerks	)			rai Test (D5)	
Algal Mat or		_	_			Geomorph	ic Position	
Iron Deposits	1							
Fleid Observation	ns:							
Surface Water Pro	esent? Yes X No I	Depth (i	nches)					
Vater Table Pres	ent? Yes X No	Depth (i	nches) 2	Wetlend	Hydrolog	Present? Yes	X No	
Saturation Presen	t? Yes X No I	Depth (i	nches)					
includes capillary	fringe)							
Describe Recorde	ed Data (stream gauge, moni	toring w	ell, serial photos, previous in	spections), if a	vailable:			
Remarks:								

Western Mountains. Valleys and Coast Region

CapyCounty:   Dorndo   Sampling Data:   6/20/2004	policant/Owner: Michael Kuhl  vestigator(s): Jeremy Waites, Summer Abel andform (hilhslope, terrace, etc.): hillslope  ubregion (LRR): D  oil Map Unit Name: Pilliken coarse sandy loam, 5 to 30 pe re climatic / hydrologic conditions on the site typical for this life re Vegetation Soil or Hydrology sign re Vegetation Soil or Hydrology net  UMMARY OF FINDINGS - Attach site map showing same ydrophytic Vegetation Present? Yes No fettand Hydrology Present? Yes No emarks:  //EGETATION - Use scientific names of plants  Lee Stratum (Plot size: 1. Celococtrus decurrens 2. Pinus jeffreyii	Latitud rcent slope rme of year? ilificantly dis urally proble Diling point b X X X X Cave Cave 10 40	State: Section, Y Local relie 38,87948:  turbed? matic? locations, tr is the Ba	CA Senownship. Ranger (concave, concave, concave	per pling Point: WD-18 ge: Section 16, T12N, R14E ge: Section 16, T12N, R14
	andform (hilhalope, terrace, etc.): hillalope ubregion (LRR): D  oil Map Unit Name: Pilliken coarse sandy loam, 5 to 30 pe re climatic / hydrologic conditions on the site typical for this life re Vegetation , Soil , or Hydrology sign re Vegetation , Soil , or Hydrology nets  UMMARY OF FINDINGS - Attach site map showing sam ydrophytic Vegetation Present? Yes No vertical Hydrology Present? Yes No ver	Latitude recent slope recent sl	Section, T Local relie  38.87948:  turbed?  matic?  locations, tr  is the Se	ownship. Rang f (concave, co NVVI class Yes X N Are Nor (If needs ansects, Impo mpled Area w Wetland?	ge: Section 16, T12N, R14E  nvax, none): none Slope (%): le: -120,4142 Detum: WGS94  ssification: None lo(If no, explain in Remarks.) rmal Circumstances* present? Yes? XNo lot explain any answers in Remarks.) ortant features, etc.  rtithin a Yes No_X  Dominance Test worksheet: Number of Dominant Species
Authority (hillslope, barrace, etc.):   Nillslope   Local railef (concave, convex, none):   none   Slope (%):	andform (hilhalope, terrace, etc.): hillalope ubregion (LRR): D  oil Map Unit Name: Pilliken coarse sandy loam, 5 to 30 pe re climatic / hydrologic conditions on the site typical for this life re Vegetation , Soil , or Hydrology sign re Vegetation , Soil , or Hydrology nets  UMMARY OF FINDINGS - Attach site map showing sam ydrophytic Vegetation Present? Yes No vertical Hydrology Present? Yes No ver	Latitude recent slope recent sl	Local relie  38.879483  turbed?  matic? locations, tr  is the Se	f (concave, co	mvex, none): none Slope (%):
Ubregion (LRR):   Diliken coarse sandy loam: 6 to 30 percent slopes	ubregion (LRR):  Didi Map Unit Name:  Pilliken coarse sandy loam, 5 to 30 per ce dimatic / hydrologic conditions on the site typical for this life re Vegetation  Soll or Hydrology sign re Vegetation  Soll or Hydrology nets  UMMARY OF FINDINGS - Attach site map showing same ydrophytic Vegetation Present?  Yes No Vegetation Present?	Latitude recent slope recent sl	turbed? matic? locations, tr	NWI class NWI class Yes X N Are "Nor (If needs ansects, Impo mpled Area w Wetland?  Indicator Status	Dominance Test worksheet:  Nore   Dominance Test worksheet:
	oil Map Unit Name: Pililiken coarse sandy loam, 5 to 30 per ce climatic / hydrologic conditions on the site typical for this life re Vegetation , Soil , or Hydrology sign re Vegetation , Soil , or Hydrology nets.  UMMARY OF FINDINGS — Attach site map showing samely drophytic Vegetation Present? Yes No yerophytic Vegetation Present?	recent slope me of year? ificantly disurally proble pling point b X X X Sociute % Caver 10	turbed? matic? locations, tr	NWI clar Yee X N Are 'Nor (If needs ansects, Impo mpted Area w Wetland?  Indicator Status	portant features, etc.  Dominance Test worksheet:  Number of Dominant Species
Prevalence   Pre	re climatic / hydrologic conditions on the site typical for this life re Vegetation Soll or Hydrology sign re Vegetation Soll or Hydrology natu  UMMARY OF FINDINGS - Attach site map showing sam ydrophytic Vegetation Present? Yes No fettand Hydrology Present? Yes No emarks:  VEGETATION - Use scientific names of plants  to Stratum (Plot size: 1. Celocedrus decurrens 2. Pinus jettreyii	me of year? ificantly distrally proble piling point	turbed? matic? locations, tr	Yes X No Are Nor (If needs ansects, Imported Area w Wetland?	io(if no, explain in Remarks.)  rmel Circumstances* present? Yes? No  ed. explain any answers in Remarks.)  ortant features, etc.  rithin a Yes No  Dominance Test worksheet:  Number of Dominant Species
Vegetation	re Vegetation Soil or Hydrology sign re Vegetation Soil or Hydrology natu  UMMARY OF FINDINGS - Attach site map showing sam ydrophytic Vegetation Present? Yes No ydric Soil Present? Yes No detiand Hydrology Present? Yes No emarks:  VEGETATION - Use scientific names of plants  Toe Stratum (Plot size: 1. Celocedrus decurrens 2. Pinus jeffreyii	inificantly discurrently discurrently problem point of the point of th	turbed? matic? locations, tr	Are Nor (If needs ansects, Imperimental Area w Wetland?	mal Circumstances' present? Yes? X No
UMMARY OF PINDINGS — Attach site map showing sampling point locations, transects, important features, etc.  Very No X No X Vegetation Present? Yes No X Vestand Physicology Present? Yes No X Wetland? Yes No X Yes No X Wetland? Yes No X Ye	Vegetation Soll or Hydrology nets  UMMARY OF FINDINGS - Attach site map showing samy ydrophytic Vegetation Present? Yes No fetland Hydrology Present?  VEGETATION - Use scientific names of plants  Vegetatum (Plot size: 1. Celocodrus decurrens 2. Pinus jeffreyii	pring point	locations, tr	(If needs ansects, Impe mpted Area w Wetland?  Indicator Status	od. explain any answers in Remarks.)  ortant features, etc.  #thin a Yes No X  Dominance Test worksheet:  Number of Dominant Species
Second content of the state o	UMMARY OF FINDINGS — Attach site map showing samy ydrophytic Vegetation Present? Yee No ydric Still Present? Yes No fettand Hydrology Present? Yes No emarks:  /EGETATION - Use scientific names of plants  to Stratum (Plot size: 1. Celocedrus decurrens 2. Pinus jeffreyii	piling point  O X  X  X  X  S  OSOlute %  Cover  10  40	locations, tr	ansects, imporphied Area w Wetland?	Dominance Test worksheet:
Vest	ydrophytic Vegetation Present? ydric Soil Present? ydric Soil Present? ydric Soil Present? Yes No N	osolute % Cover	Is the Ba	mpled Area w Wetland? Indicator Status	Dominance Test worksheet: Number of Dominant Species
	ydric Soil Present? Yes No fetland Hydrology Present? Yes No emarks:  /EGETATION - Use scientific names of plants  ree Stratum (Plot size: 1. Celocodrus decurrens 2. Pinus jeffreyii	osolute % Cover 10 40	Dominant	Wetland?	Dominance Test worksheet: Number of Dominant Species
Vest	/etland Hydrology Present? Yes No emarks:  /EGETATION - Use scientific names of plants  res Stratum (Plot size: ) 1. Celocedrus decurrens 2. Pinus jeffreyii	osolute % Cover 10 40		Indicator Status	Dominance Test worksheet: Number of Dominant Species
Absolute %   Dominant   Indicator   Species   Status   Number of Dominant   Species   Status   Status   Status   Status   Status   Status   Species   Status   Status   Status   Species   Status   Status   Species	/EGETATION - Use scientific names of plants  Ab  Lee Stratum (Plot size: )  1. Celocedrus decurrens 2. Pinus jeffreyii	Cover 10 40		Statue	Number of Dominant Species
Absolute %   Dominant   Indicator   Dominance Test worksheet:	1. Celocedrus decurrens 2. Pinus jeffreyii	Cover 10 40		Statue	Number of Dominant Species
Absolute %   Dominant   Indicator   Dominance Test worksheet:   Number of Dominant Species   That Are OBL, FACW, or FAC;   Q   (A)	1. Celocedrus decurrens 2. Pinus jeffreyii	Cover 10 40		Statue	Number of Dominant Species
Cover   Species   Sistus   Number of Dominant Species   1. Celocedrus decurrens   1. Celocedru	1. Celocedrus decurrens 2. Pinus jeffreyii	10 40		Statue	Number of Dominant Species
1   Calocedrus decurrens   10	Celocedrus decurrens     Pinus jeffreyii	10	Species?		•
2   Pinus petfreyii	2. Pinus jeffreyii	40			
3					ITEL ATE OBL, FACET, OF FACE
112   Total Cover   Percent of Dominant Species   That Are OBL, FACW, or FAC:   0%   (A/B)	3. Pinus ponderosa	50	X	FACU	Total Number of Dominant
Percent of Dominant Species   Percent of Dominant Species   That Are OBL, FACW, or FAC: 0% (A/B)	4. Abies concolor	2			Species Across All Streta: 1 (B)
1. Rhododendron occidentale   3   FAC   That Are OBL, FACW, or FAC: 0% (A/B)		112	Total Cover		
2				FAC	
Total % Cover of:   Multiply by:	1 Rhododendron occidentale	3		FAU	THE AT OBE, FACEY, OF FAC:
Total % Cover of:   Multiply by:	2				
Total % Cover of:   Multiply by:	4.				
Total Stratum (Plot size:	6.				
1. Tansacum officinate 2		3	Total Cover		Prevalence index worksheet:
2. Chrysolepis sempervirens         5         -         FACW species         0         x 2 = 0           3. Equisetum arvense         2         FAC         FAC species         6         x 3 = 16           4. Hypericum perforatum         5         FACU         FACU species         0 x 4 = 268           5. Collomie grandiflore         3         -         UPL species         x 5 = 0           6.         Column Totals:         72 (A) 283 (A)         283 (A)           7.         B.         Prevalence index = 8/A = 3.93           17. Total Cover         Hydrophytic Vegetation indicators:           1.         Dominance Test is >50%           Prevalence Index is ±3.0¹         Morphological Adaptations (Provide supportin data in Remarks or on a separate sheet)					
3				FACU	
4. Hypericum perforatum 5 FACU FACU species 67 x 4 = 268 5. Collomie grandiflore 3 - UPL species x 5 = 0 6. Column Totals: 72 (A) 283 ( 7. 8. Prevalence Index = 8/A = 3.93  Voody Vine Stratum (Plot size: ) Hydrophytic Vegetation Indicators: 1. Dominance Test is >50% 2. Prevalence Index is ±3.0¹ Dominance Test is ±50% Prevalence Index is ±3.0¹ Adaptations (Provide supportin data in Ramarks or on a separate sheet)				EAC	
5. Collomie grandiffore  3. UPL species x 5 = 0  6. Column Totals: 72 (A) 283 (  7. 8. Prevalence index = 8/A = 3.93  17 Total Cover  Woody Vine Stratum (Plot size: )  1. Dominance Test in >50%  Prevalence tridex is ≤3.0¹  2. O Total Cover Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)					
6. Column Totals: 72 (A) 283 ( 7. 8. Prevalence Index = 8/A = 3.93    17				FACU	
7.  8.	5. Colorise grandelors	3		-	
17   Total Cover   Hydrophytic Vegetation indicators:     1.					Column (dails: 12 (A) 263 (
17   Total Cover   Hydrophytic Vegetation indicators:     1.	7.				
Voody Vine Stratum (Plot size:)  1	8.				Prevalence Index = B/A = 3.93
1. Dominance Test is >50%  2. Prevalence Index is ≤3.0¹  O Total Cover Morphological Adaptations (Provide supportindata in Remarks or on a separate sheet)	-	17	Total Cover		
2. Prevalence Index is ≤3.0   O Total Cover Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)	Voody Vine Stratum (Plot size:				, , , ,
0 Total Cover Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)	1				- The state of the
data in Remarks or on a separate sheet)	2.				_
4 Bare Ground in Herb Stratum 70 % Cover of Biotic Crust Problematic Hydrophytic Vegetation' (Explain)	_	0	Total Cover		
	Bare Ground in Herb Stratum 70	% Co	over of Biotic	Crust	Problematic Hydrophytic Vegetation¹ (Explain)

Western Mountains. Valleys and Coast Region

Depth	Matrix		F	tedox Feetu	res			
(inches)	Calor (moist)	%	Color (moist)	%	Type	LOC?	Texture	Remarks
2	5 YR 3/3	100	- Color (more)		- //		sandy loam	
4	5 TR 3/3	100					Sandy Iodin	
Type, C=Concertrate	ur,E⇔Depision RM∞Reduc	ed Melrix.	<sup>2</sup> Location FL <sup>=Purp</sup> L	म शहुर स्ट्≖स्	oct Charmel,	M=Matrix		
tydric Soll Indicat	ors: (Applicable to all L	.RRs, unic	ess otherwise noted	.) Indicator	s for Prob	lematic Hy	rdric Solls <sup>3</sup> :	
Histosol (A	A1)		Sandy Radox (S5)				_	
Histic Epig	pedon (A2)		Stripped Matrix (S6	)			2 cm Muck (A10	(LRR B)
Black Hist	tic (A3)		Loamy Mucky Mine	ral(F1)			Very Shallow Da	ark Surface
Hydrogen	Sulfide (A4)		Loamy Gleyed Mate	rix (F2)			Red Parent Mat	erial (TF2)
	Below Dark Surface (A11		Depleted Matrix (F:				Other (Explain is	n Remarks)
Thick Dark	k Surface (A12)		Redax Dark Surfac	e (F6)				
	Below Dark Surface (A11	:	Depleted Dark Sur					egetation end wetland hydrol
	cky Mineral (S1)		Redox Depressions	(F8)		must be ;	present, unless di	sturbed or problematic.
Sandy Gle	syed Matrix (S4)		-					
Restrictive Layer	(If present):							
	and the second second							
type.								
Type: Depth (inches)	:		-		Hydric S	oli Preseni	? Yes	No X
	:		-		Hydric S	oli Preseni	? Yes	Mo_X_
	:				Hydric S	oli Preseni	?? Yes	No_X_
Depth (inches)					Hydric S	oli Preseni	1? Yes	NoX
Depth (inches)					Hydric S	oll Present	? Yes	NoX
Depth (inches) Remarks: HYDROLOGY Wetland Hydrology	y Indicators:				Hydric S	oli Preseni		
Depth (inches) Remarks: HYDROLOGY Wetland Hydrology		l; check all	that apply)		Hydric S	oil Present		No X
Depth (inches) Remarks: HYDROLOGY Wetland Hydrology	y Indicators: minimum of one required	; check all	that apply) Salt Crust (B11)		Hydric S	oil Present	Secondary Indica	
Depth (inches) Remarks: HYDROLOGY Wetland Hydrology Primary Indicators (	y Indicators: minimum of one required (A1)	l; check all		ves	Hydric S	oll Present	Secondary Indica	tors (2 or more required) ned Leaves
Depth (inches)  Remarks:  HYDROLOGY  Wetland Hydrology  Primary Indicators (  Surface Water	y Indicators: minimum of one required (A1) ble (A2)	l; check all	Salt Crust (B11) Water Stained Lea		Hydric S	oli Preseni	Secondary Indica Water Stai Relaed Ant	tors (2 or more required) ned Leaves
Depth (inches)  Remarks:  HYDROLOGY  Wetland Hydrology  Primary Indicators ( Surface Water  High Water Ta  Seturation (A3)	y Indicators: minimum of one required (A1) ble (A2)	l; check all	Salt Crust (B11) Water Steined Lea Aquatic Invertebrat	es (B13)	Hydric S	oil Present	Secondary Indice Water Stai Relaed Ant	tors (2 or more required) ned Leaves Mounds e Hummocks
Depth (inches)  Remarks:  HYDROLOGY  Wetland Hydrology  Primary Indicators ( Surface Water  High Water Ta  Seturation (A3)  Water Marks (i	y Indicators: minimum of one required (A1) ble (A2) ) 81)	l; check all	Salt Crust (B11) Water Stained Lea Aquatic Invertebrat Hydrogen Sulfide (	es (B13) Odor (C1)			Secondary Indica Water Stai Relead Ant Front Heav Drainage F	tors (2 or more required) ned Leaves Mounds re Hummocks externs (B10)
Depth (inches)  Remarks:  HYDROLOGY  Wetland Hydrology  Primary Indicators ( Surface Water  High Water Ta  Seturation (A3)  Water Marks (i  Sediment Dep	y Indicators: minimum of one required (A1) ble (A2) ) B1) osits (B2)	l; check all	Selt Crust (B11) Water Steined Lee Aquetic Invertebrat Hydrogen Sulfide C Oxidized Rhizosph	es (B13) Odor (C1) eres along l	Living Root		Secondary Indica Water Stai Relised Ant Frost Heav Drainage F	tors (2 or more required) ned Leaves ! Mounds re Hummocks retterns (B10) n Weter Table (C2)
Depth (inches)  Remarks:  HYDROLOGY  Wetland Hydrology  Primary Indicators ( Surface Water  High Water Ta  Seturation (A3)  Water Marks (i  Sediment Dep  Drift Deposits (	y Indicators: minimum of one required (A1) ble (A2) ) 81) osits (82) (83)	l; check all	Salt Crust (B11) Water Stained Lee Aquatic Invertebrat Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc	es (B13) Odor (C1) eres along l ced fron (C4	Living Root	is (C3)	Secondary Indica Water Stai Relised Ant Frost Heav Drainage F Dry-Sesso Crayfish Bi	tors (2 or more required) ned Leaves Mounds re Hummocks Patterns (B10) n Water Table (C2)
Depth (inches)  Remarks:  HYDROLOGY  Wetland Hydrology  Primary Indicators ( Surface Water  High Water Ta  Seturation (A3)  Water Marks (i  Sediment Dep  Drift Deposits ( Surface Soil C	y Indicators: minimum of one required (A1) ble (A2) ) 81) osits (82) (83) racks (86)		Salt Crust (B11) Water Steined Lee Aquatic Invertebrat Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc	es (B13) Odor (C1) eres along l ed Iron (C4 tion in Tilled	Living Root	is (C3)	Secondary Indica Water Stai Relised Ant Frost Heav Drainage F Dry-Sesso Craylinh Bi Saturation	tors (2 or more required) ned Leaves i Mounds re Hummocks Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C2
Depth (inches)  Remarks:  HYDROLOGY  Wetland Hydrology  Primary Indicators ( Surface Water  High Water Ta  Seturation (A3)  Water Marks (i  Sediment Dep  Drift Deposits ( Surface Soil C	y Indicators: minimum of one required (A1) ble (A2) ) 81) osits (82) (83)		Salt Crust (B11) Water Stained Lee Aquatic Invertebrat Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc	es (B13) Odor (C1) eres along l ed Iron (C4 tion in Tilled	Living Root	is (C3)	Secondary Indica Water Stai Relised Ant Frost Heav Drainage F Dry-Sesso Craylinh Bi Saturation	tors (2 or more required) ned Leaves Mounds re Hummocks Patterns (B10) n Water Table (C2)
Depth (inches)  Remarks:  HYDROLOGY  Wetland Hydrology  Primary Indicators ( Surface Water  High Water Ta  Seturation (A3)  Water Marks (i  Sediment Dep  Drift Deposits ( Surface Soil C Inundation Visit	y Indicators: minimum of one required (A1) ble (A2) ) 81) osits (82) (83) racks (86)		Salt Crust (B11) Water Steined Lee Aquatic Invertebrat Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc	es (B13) Odor (C1) eres along l ced Iron (C4 tion in Tilled d Plents	Living Root	is (C3)	Secondary Indica Water Stai Relised Ant Frost Heav Drainage F Dry-Seeso Craylish Bi Saturation Shallow Ad	tors (2 or more required) ned Leaves i Mounds re Hummocks Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C2
Depth (inches)  Remarks:  HYDROLOGY  Wetland Hydrology  Primary Indicators ( Surface Water  High Water Ta  Seturation (A3)  Water Marks (i  Sediment Dep  Drift Deposits ( Surface Soil C Inundation Visit	y Indicators: minimum of one required (A1) ble (A2) ) 81) osits (B2) (B3) racks (B6) ble on Aerial Imagery (B teled Concave Surface		Salt Crust (B11) Water Steined Lee Aquatic Invertebrat Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Stunted or Stresse	es (B13) Odor (C1) eres along l ced Iron (C4 tion in Tilled d Plents	Living Root	is (C3)	Secondary Indica Water Stai Relised Ant Frost Heav Drainage F Dry-Seeso Craylish Bi Saturation Shallow Ad	tors (2 or more required) ned Leaves i Mounds re Hummocks Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C2 guitard (D3) rel Test (D5)
Depth (inches)  Remarks:  HYDROLOGY  Wetland Hydrology  Primary Indicators ( Surface Water  High Water Ta  Seturation (A3)  Water Marks (i  Sediment Dep  Drift Deposits ( Surface Soil C Inundation Visia  Spanslet Veget	y Indicators: minimum of one required (A1) ble (A2) ) 81) osits (B2) (B3) racks (B6) ble on Aerial Imagery (B teled Concave Surface		Salt Crust (B11) Water Steined Lee Aquatic Invertebrat Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Stunted or Stresse	es (B13) Odor (C1) eres along l ced Iron (C4 tion in Tilled d Plents	Living Root	is (C3)	Secondary Indica Water Stai Relised Ant Frost Heav Drainage F Dry-Seeso Crayfish Bi Saturation Shallow Ad FAC-Neutr	tors (2 or more required) ned Leaves i Mounds re Hummocks Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C2 guitard (D3) rel Test (D5)
Depth (inches)  Remarks:  HYDROLOGY Wetland Hydrolog Primary Indicators ( Surface Water High Water Ta Seturation (A3) Water Marks ( Sediment Dep Drift Deposits ( Surface Soi Vidential Vi	y Indicators: minimum of one required (A1) ble (A2) ) B1) osits (B2) (B3) racks (B6) ible on Aerial Imagery (B teted Concave Surface		Salt Crust (B11) Water Steined Lee Aquatic Invertebrat Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Stunted or Stresse	es (B13) Odor (C1) eres along l ced Iron (C4 tion in Tilled d Plents	Living Root	is (C3)	Secondary Indica Water Stai Relised Ant Frost Heav Drainage F Dry-Seeso Crayfish Bi Saturation Shallow Ad FAC-Neutr	tors (2 or more required) ned Leaves i Mounds re Hummocks Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C2 guitard (D3) rel Test (D5)
Depth (inches)  Remarks:  HYDROLOGY  Wetland Hydrology  Primary Indicators ( Surface Water High Water Ta Seturation (A3)  Water Marks (i Sediment Dep Drift Deposits ( Surface Soil C Inundation Visi Sparslet Veget Algal Mat or C Iron Deposits  Field Observation:	y Indicators: minimum of one required (A1) ble (A2) ) 81) osits (B2) (B3) racks (B6) ble on Aerial Imagery (B teted Concave Surface rust	7)	Salt Crust (B11) Water Steined Lee Aquetic Invertebrat Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Stunted or Stresse Other (Explain in R	es (B13) Odor (C1) eres along l ced Iron (C4 tion in Tilled d Plents	Living Root	is (C3)	Secondary Indica Water Stai Relised Ant Frost Heav Drainage F Dry-Seeso Crayfish Bi Saturation Shallow Ad FAC-Neutr	tors (2 or more required) ned Leaves i Mounds re Hummocks Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C2 guitard (D3) rel Test (D5)
Depth (inches)  Remarks:  HYDROLOGY  Wetland Hydrology  Primary Indicators ( Surface Water  High Water Ta Seturation (A3)  Water Marks (i Sediment Dep  Drift Deposits ( Surface Soil C Inundation Visi Sparslet Veget  Algal Mat or Ci Iron Deposits  Field Observation:  Surface Water Pres	y Indicators: minimum of one required (A1) ble (A2) ) 81) osits (B2) (B3) racks (B6) ble on Aerial Imagery (B tated Concave Surface rust s: sent? Yes No X	Depth (in	Salt Crust (B11) Water Steined Lee Aquetic Invertebrat Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recant Iron Reduc Stunted or Stresse Other (Explain in R	es (B13) Odor (C1) eres along l ced Iron (C4 tion in Tilled d Plents	Living Root ) d Soils (C6)	s (C3)	Secondary Indica Water Stai Relead An Frost Heav Drainage F Dry-Seaso Crayfish Bi Saturation Shallow Ar FAC-Neutr	tors (2 or more required) ned Leaves Mounds re Hummocks Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C2 pultard (D3) ral Test (D5) ic Position
Depth (inches)  Remarks:  HYDROLOGY Wetland Hydrology Primary Indicators ( Surface Water High Water Ta Seturation (A3) Water Marks (i Sediment Dep Drift Deposits ( Surface Soil C Inundation Vial Sparslet Veget Algal Mat or Ci Iron Deposits  Field Observation Surface Water Preservator	y Indicators: minimum of one required (A1) ble (A2) ) B1) osits (B2) (B3) cosits (B6) ble on Aerial Imagery (B teted Concave Surface rust s: sent? Yes No X	Depth (in Depth	Salt Crust (B11) Water Stained Lee Aquetic Invertebrat Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Stunted or Stresse Other (Explain in R	es (B13) Odor (C1) eres along l ced Iron (C4 tion in Tilled d Plents	Living Root ) d Soils (C6)	s (C3)	Secondary Indica Water Stai Relised Ant Frost Heav Drainage F Dry-Seeso Crayfish Bi Saturation Shallow Ad FAC-Neutr	tors (2 or more required) ned Leaves Mounds re Hummocks Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C2 pultard (D3) ral Test (D5) ic Position
Depth (inches)  Remarks:  HYDROLOGY  Netland Hydrology  Primary Indicators ( Surface Water High Water Ta Seturation (A3)  Water Marks (i) Sediment Dep Drift Deposits ( Inundation Val Sparslet Veget Algal Mat or Ci Iron Deposits  Field Observation: Surface Water Table Present Water Table Present  Saturation Present	y Indicators: minimum of one required (A1) ble (A2) ) B1) osits (B2) (B3) racks (B6) lible on Aerial Imagery (B teted Concave Surface rust  s: sent? Yes No X 7 Yes No X	Depth (in Depth	Salt Crust (B11) Water Stained Lee Aquetic Invertebrat Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Stunted or Stresse Other (Explain in R	es (B13) Odor (C1) eres along l ced Iron (C4 tion in Tilled d Plents	Living Root ) d Soils (C6)	s (C3)	Secondary Indica Water Stai Relead An Frost Heav Drainage F Dry-Seaso Crayfish Bi Saturation Shallow Ar FAC-Neutr	tors (2 or more required) ned Leaves Mounds re Hummocks Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C2 pultard (D3) ral Test (D5) ic Position
Depth (inches)  Remarks:  HYDROLOGY  Netland Hydrology  Primary Indicators ( Surface Water High Water Ta Seturation (A3)  Water Marks (i Sediment Dep Drift Deposits ( Surface Soil C Inundation Visi Sparslet Veget Algal Mat or C Iron Deposits  Field Observation: Surface Water Present Water Table Present (includes capillary fi	y Indicators: minimum of one required (A1) ble (A2) ) B1) osits (B2) (B3) racks (B6) lible on Aerial Imagery (B teted Concave Surface rust  s: sent? Yes No X 7 Yes No X	Depth (in Depth (in Depth (in	Salt Crust (B11) Water Steined Lee Aquetic Invertebrat Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Stunted or Stresse Other (Explain in R	es (B13) Odor (C1) eres along I eed Iron (C4 tion in Tilled d Plents ermerks)	Living Root ) d Soils (C6)	s (C3)	Secondary Indica  Water Stai  Relead An  Frost Heav  Drainage F  Dry-Seaso  Crayfish Bi  Saturation  Shallow Ar  FAC-Neutr  Geamorph	tors (2 or more required) ned Leaves Mounds re Hummocks Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C2 pultard (D3) ral Test (D5) ic Position
Depth (inches)  Remarks:  HYDROLOGY Netland Hydrology Primary Indicators ( Surface Water High Water Ta Seturation (A3) Water Marks (i Sediment Dep Drift Deposits ( Surface Soil C Inundation Visi Sparslet Veget Algal Mat or C Iron Deposits  Field Observation: Surface Water Present Vater Table Present includes capillary fi	y Indicators: minimum of one required (A1) ble (A2) ) 81) osits (B2) (B3) racks (B6) ble on Aerial Imagery (B teled Concave Surface rust  s: sent? Yes No X X ? Yes No X X ringe)	Depth (in Depth (in Depth (in	Salt Crust (B11) Water Steined Lee Aquetic Invertebrat Hydrogen Sulfide ( Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Stunted or Stresse Other (Explain in R	es (B13) Odor (C1) eres along I eed Iron (C4 tion in Tilled d Plents ermerks)	Living Root ) d Soils (C6)	s (C3)	Secondary Indica  Water Stai  Relead An  Frost Heav  Drainage F  Dry-Seaso  Crayfish Bi  Saturation  Shallow Ar  FAC-Neutr  Geamorph	tors (2 or more required) ned Leaves Mounds re Hummocks Patterns (B10) n Water Table (C2) urrows (C9) Visible on Aerial Imagery (C2 pultard (D3) ral Test (D5) ic Position

Western Mountains, Valleys and Coast Region

# WETLAND DETERMINATION DATA FORM — Western Mountains, Valleys and Coast Region Project/Site: Union Velley County: El Dorado Sampling Date: 6/20/2024 Applicant/Owner: Michael Kuhl State: CA Sampling Point: WD-11 Investigator(s): Jeremy Wakes, Summer Abel Section, Township, Range: Section 16, T12N, R14E Landform (hillalope, terrace, etc.): hillalope Local relief (concave, convex, none): none Slope (%): 5 Subregion (LRR): D Latitude: 38.879483T Longitude: -120.4142 Datum: WGS84 Soil Map Unit Name: Pilliken coarse sandy loam, 5 to 30 percent slopes NWI classification: None Are dimatic / hydrologic conditions on the site typical for this time of year? Yes X No (if no, explain in Remarks.) Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes? X No Are Vegetation , Soil , or Hydrology naturally problematic? (if needed, explain any answers in Remarks.)

Tree Stratum	(Plot size:	>	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: lumber of Dominant Species
VEGETATI	ON - Use scientific	names of pl	ants			
Remarks:						
Netland Hydro	ology Present?	Yes	No X		***************************************	
Hydric Soil Pro	ment?	Yes	No X	is the sa	Wetland?	Yes No X
Hydrophytic V	egetation Present?	Yes	No X	to the Co	moled Area within	

ree Stratum (Plot size:	Absolute % Cover	Dominant Species?	Indicator Status	Domine Number of Dominar	nce Test workshi	et:
1. Calocedrus decurrens	40	Species?	Senar	That Are OBL. FAC		0 (A)
2.	40			THE NE OBE, PACE		0
3. Pinus ponderosa	40	X	FACU	Total Number of Do	minent	
4. Abies concolor	10			Species Across Alf S	Streta:	1 (B)
	90	Total Cover				
Sapling/Shrub Streturn (Plot size:	)			Percent of Dominan	t Species	
1,			-	That Are OBL, FAC	W, or FAC:	0% (A/B)
2						
3.						
4.						
5						
	0	Total Cover		Prevale	nce index worksh	eet:
terb Stratum (Plot size:	)			Total % Cover of:	Multiply	1
Adenocaulon bicolor	5		-	OBL species	0 ×1=	0
2. Ribes roezlii var. roezlii	1		-	FACW species	0 x 2 =	0
3. Equisetum arvense	20		FAC	FAC species	20 x 3 =	60
4. Goodyera oblongifolia	1		FACU	FACU species	40 x 4 =	160
5. Galium trillorum	1		FACU	UPL species	x 5 =	0
6.				Column Totals:	60 (A)	220 (B
7						
8				Prevalence Indi	ex = 8/A =	3.67
	28	Total Cover				
Woody Vine Stratum (Plot size:	1			Hydrophyti	c Vegetation India	entors:
				Dominance Te		
1				Prevalence ind		
2	0	Total Cover			Adaptations (Provi	de supporting
	U	I deal Cover			s or on a separate	
				CONTENT IN ACCOUNTS	(2 OL OU S RED MINE	STI BUT)
% Bare Ground in Herb Stratum 60	w.c	over of Biotic	Count		drophytic Vegetati	

Western Mountains, Valleys and Coast Region

Profile Description: (Describe to the depth need			
		n the absence of	(Indicators.)
Depth Matrix	Redox Features		
(inches) Calor (moist) %	Color (moist) % Typ	e LOC	Texture Remarks
2 5 YR 3/3 10	0		sandy loam
Type: Unupricer lister: DhDeptstor: RM#Reduced Met	dx. <sup>2</sup> Location FL=Pore_x rkg, ₹t.=₹oct Che	a nel V=Matre	
Tiper a second war of E separati town reaccount was	TAX. EDGEST FET OF ENTRY, AT THE OTHER	at 11501, 41-9170001-5	
tydric Soll Indicators: (Applicable to all LRRs,	unless otherwise noted.) Indicators for I	Problematic Hyd	Iric Solis³:
Histosol (A1)	Sandy Redox (S5)		
Histic Epipedon (A2)	Stripped Matrix (S6)		2 cm Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral(F1)		Very Shallow Dark Surface
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		Red Parent Material (TF2)
Depleted Below Dark Surface (A11	Depleted Matrix (F3)		Other (Explain in Remarks)
Thick Dark Surface (A12)	Redox Dark Surface (F6)		
Depleted Below Dark Surface (A11; Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7) Redox Depressions (F8)		of hydrophytic vegetation and wetland hydrolo resent, unless disturbed or problematic.
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)	Redat Depressions (Fe)	must de p	resent, unless disturbed a problement.
Restrictive Layer (if present):			
Туре:	_		
Depth (inches):	Hydi	ric Soil Present?	Yes No_X
HYDROLOGY Wetland Hydrology Indicators:			
Primary Indicators (minimum of one required; chec			Secondary Indicators (2 or more required)
Surface Water (A1)	Selt Crust (B11)	-	Water Stained Leaves
High Water Table (A2)	Water Steined Leaves	_	Reised Ant Mounds
Seturation (A3)	Aquatic Invertebrates (B13)		Frost Heave Hummocks
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		Drainage Patterns (810)
Sediment Deposits (B2)	Oxidized Rhizospheres along Living	Roots (C3)	Dry-Season Water Table (C2)
			Crayfish Burrows (C8)
Drift Deposits (B3)	Presence of Reduced Iron (C4)		Craysan Burrows (Co)
Drift Deposits (B3) Surface Soil Cracks (B5)	Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils	(C8)	Saturation Visible on Aerial Imagery (C2)
Surface Soil Cracks (B6)	Recent Iron Reduction in Tilled Soils	(C8)	Saturation Visible on Aerial Imagery (C2)
Surface Soil Cracks (B5) Inundation Visible on Aerial Imagery (B7)	Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants	(C8)	Saturation Visible on Aerial Imagery (C2) Shallow Aquitard (D3)
Surface Soil Cracks (BB) Inundation Visible on Aerial Imagery (B7) Sparslet Vegetated Concave Surface	Recent Iron Reduction in Tilled Soils	(C8)	Saturation Visible on Aerial Imagery (C2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Surface Soil Cracks (BB) Inundation Visible on Aerial Imagery (B7) Sparslet Vegetated Concave Surface Algal Mat or Crust	Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants	(CB)	Saturation Visible on Aerial Imagery (C2) Shallow Aquitard (D3)
Surface Soil Cracks (BB) Inundation Visible on Aerial Imagery (B7) Sparslet Vegetated Concave Surface	Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants	(C8)	Saturation Visible on Aerial Imagery (C2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Surface Soil Cracks (BB) Inundation Visible on Aerial Imagery (B7) Sparslet Vegetated Concave Surface Algal Mat or Crust Iron Deposits  Field Observations: Surface Water Present? Yes No X Depl Water Table Present? Yes No X Depl Saturation Present? Yes No X Depl	Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants Other (Explain in Remarks)  Ith (inches) Wet		Saturation Visible on Aerial Imagery (C2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Surface Soil Cracks (BB) Inundation Visible on Aerial Imagery (B7) Sparslet Vegetated Concave Surface Algal Mat or Crust Iron Deposits  Field Observations: Surface Water Present? Yes No X Depl Water Table Present? Yes No X Depl Saturation Present? Yes No X Depl	Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants Other (Explain in Remarks)  Ith (inches) Wet		Saturation Visible on Aerial Imagery (C2) Shallow Aquitard (D\$) FAC-Neutral Test (D5) Geomorphic Position
Surface Soil Cracks (BB) Inundation Visible on Aerial Imagery (B7) Sparslet Vegetated Concave Surface Algal Mat or Crust Iron Deposits  Field Observations: Surface Water Present? Yes No X Dept Water Table Present? Yes No X Dept Saturation Present? Yes No X Dept (includes capillary fringe)	Recent Iron Reduction in Tilled Soils Stunted or Stressed Plents Other (Explain in Remarks)  th (inches) th (inches) Wet th (inches)	dand Hydrology	Saturation Visible on Aerial Imagery (C2) Shallow Aquitard (D\$) FAC-Neutral Test (D5) Geomorphic Position
Surface Soil Cracks (BB) Inundation Visible on Aerial Imagery (B7) Sparslet Vegetated Concave Surface Algal Mat or Crust Iron Deposits  Field Observations: Surface Water Present? Yes No X Dept Water Table Present? Yes No X Dept	Recent Iron Reduction in Tilled Soils Stunted or Stressed Plents Other (Explain in Remarks)  th (inches) th (inches) Wet th (inches)	dand Hydrology	Saturation Visible on Aerial Imagery (C2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Geomorphic Position

Sierra Ecosystem Associates Preliminary Wetland Delineation

US Army Corp of Engineers

Western Mountains, Valleys and Coast Region

#### WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys and Coast Region Project/Site: Union Velley Sampling Date: 6/20/2024 City/County: El Dorado Applicant/Owner: Michael Kuhl State: CA Sampling Point: WD-12 Section, Township. Range: Section 16, T12N, R14E investigator(s): Jeremy Waites, Summer Abel Landform (hillstope, terrace, etc.): hillstope Local relief (concave, convex, none): none Stope (%): 0 Latitude: 38.8998 Longitude: -120.4129 Deturn: WGS84 Subregion (LRR): D Soil Map Unit Name: Pilliken coarse sandy loam, 5 to 30 percent slopes NWI classification: None Yes X No \_\_\_\_(If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Are Vegetation Soll or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes? X No Revegetation Soll or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No is the Sampled Area within a Yes X No\_ Hydric Soil Present? Wetland Hydrology Present? Wetland? Yes X No **VEGETATION** - Use scientific names of plants Dominance Test worksheet: Absolute % Dominant Indicator Tree Stratum (Plot size: **Number of Dominant Species** Status Cover Species? That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: 0 Total Cover Sapling/Shrub Stratum (Plot size: Percent of Dominant Species FACW That Are OBL, FACW, or FAC: 100% (A/B) 1. Alnus incana ssp. tenuifolia 25 Total Cover Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 10 x 1 = 10 FACW species 40 x 2 = 80 Herb Stratum (Plot size: FAC 1. Equisetum arvense 2. Artemisia douglasiana FACW OBL FAC species 70 x 3 = 210 3. Erythranthe guttata OBL FACU species 1 x 4 = 4 4. Scirpus microcarpus UPL species \_\_\_\_\_x 6 = 0 5. Pteridium equilinum ver. pubescens FACU FAC Column Totals: 121 (A) 304 (B) 6. Poe pretensis 20 FACW 7. Senecio triangularis 10 Prevalence Index = B/A = 96 Total Cover Woody Vine Stratum (Plot size: Hydrophytic Vegetation Indicators: X Dominance Test is >50% X Prevalence Index is ≤3.01 Morphological Adaptations (Provide supporting 0 Total Cover data in Remarks or on a separate sheet) % Cover of Biotic Crust \_\_\_\_\_ Problematic Hydrophytic Vegetation' (Explain) % Bare Ground in Herb Stratum **Hydrophytic Vegetation Present?** Yes X No

Western Mountains, Valleys and Coast Region

Depth	Metrix	Redox Features						
(inches)	Calor (moist)	%	Color (moist)	%	Туре	LOC <sup>2</sup>	Texture	Remarks
(anches)	5 YR 3/2	100	Color (morst)		Турч		Loamy muck	
	5 TR 3/2	100					Loamy mack	
Type, U=Concer ba	dior, EmDoplator, RM=Reducad	1 Meins.	Lecation FE-Pension	rig, 45=40	et Chernel,	M=Matrix		
to select a disease to obtain	stava. (Bankashtata ali t M			for ellips and a mark	for Brob	lamatia Ma	mint a Chatter !	
	ntors: (Applicable to all LR			Maicator	s for Prob	eematic rry	dic sons :	
Historol	-	X	Sandy Radox (S5)					4.00.0
	pipedon (A2)		Stripped Matrix (S6)				2 cm Muck (A10	
Black Hi	stic (A3)		Loamy Mucky Miner	d(F1)			Very Shallow Da	irk Surface
Hydroge	n Sulfide (A4)		Loamy Gleyed Matrix	(F2)			Red Parent Mate	erial (TF2)
Total Control of the	d Below Dark Surface (A11		Depleted Matrix (F3)				Other (Explain in	Remarks)
	ark Surface (A12)		Redox Dark Surface					
	d Below Dark Surface (A11)	~	Depleted Dark Surfa					egetetion and wedland hydro
	lucky Mineral (S1)	X	_ Redox Depressions	(PB)		must be (	present, uniess di	sturbed or problemetic.
Sality	ileyed Matrix (S4)		-					
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Type: Depth (inche					Hydric S	oll Present	? Yes <u>X</u>	No
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Western Mountains. Valleys and Coast Region

# **Appendix B**

# **Photographs from Data Collection**





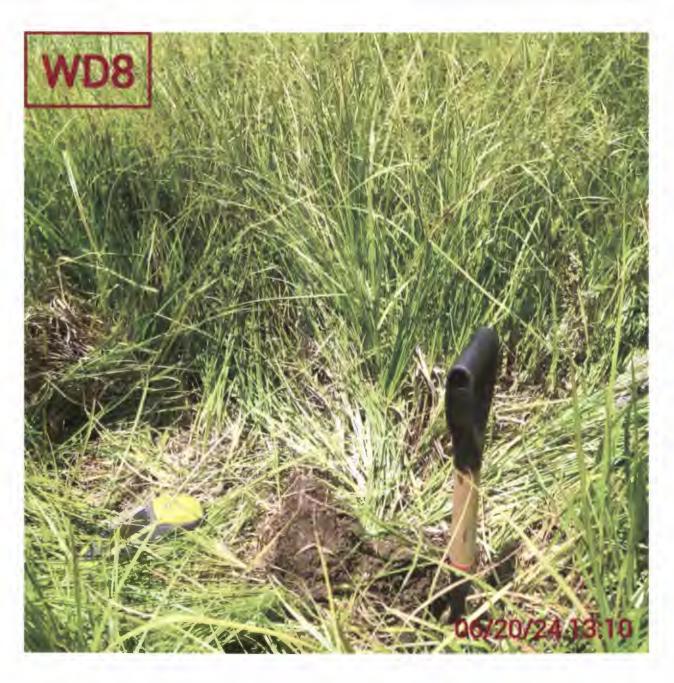




















330 Fair Lane, Placerville CA, 95667 • Tel. 530.621.7501 • Eldoradocounty.ca.gov/Land-Use/Air-Quality-Management

August 20, 2024

Nathaniel Willson 3080 Cedar Ravine Rd. Placerville, CA 95667 **RECEIVED** 

SEP - 9 2024

EL DORADO COUNTY
PLANNING AND BUILDING DEPARTMENT

Subject:

Request for Waiver of Air Quality Impact Analysis - 1 Bullard Place, Pollock Pines

Dear Mr. Willson:

Thank you for your email dated August 6, 2024, regarding your Conditional Use Permit application to build a single-family home at 1 Bullard Place in Pollock Pines. The property currently has no existing structures and spans approximately 20 acres. The purpose of your email was to request a waiver from the El Dorado County Air Quality Management District (EDCAQMD) of the application requirement for an Air Quality Impact (AQI) analysis. EDCAQMD has determined that an AQI analysis is not required for the subject application.

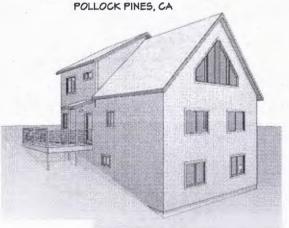
This determination is based solely on the information provided above. If the project description changes or an Initial Study (IS) concludes that further air quality information is needed, you may be required to provide this information at your expense. Furthermore, the flowing standard conditions can apply to your project:

- Fugitive Dust: A Fugitive Dust Mitigation Plan (FDP) Application with appropriate fees shall be submitted to and approved by the EDCAQMD prior to start of project construction if during the course of the project a Grading Permit is required from the Building Department, Dust control measures shall comply with the requirements of AQMD Rule 223, Fugitive Dust General Requirements and Rule 223.1 Construction, Bulk Material Handling, Blasting, Other Earthmoving Activities and Trackout Prevention.
- Paving: Road construction shall adhere to AQMD Rule 224, Cutback and Emulsified Asphalt Paving Materials.
- Open Burning: Burning of wastes that result from "Land Development Clearing" must be permitted through the AQMD. Only dry vegetation originating from the property may be disposed of using an open outdoor fire and burning shall adhere to AQMD Rule 300, Open Burning.
- Portable Equipment: All portable combustion engine equipment with a rating of 50 horsepower or greater shall be registered with CARB. A copy of the current portable equipment registration shall be with said equipment. The applicant shall provide a complete list of heavy-duty diesel-fueled equipment to be used on this project, which includes the make, model, year of equipment, and daily hours of operations of each piece of equipment.

If you have any questions, please do not hesitate to contact me at (530) 621-7509. be viewed at: <a href="https://ww2.arb.ca.gov/current-air-district-rules">https://ww2.arb.ca.gov/current-air-district-rules</a> .	The complete list of District Rules ca
Respectfully,	
Rambi	
Rania Serieh	
Air Quality Management District	
\\AQData\AQ-Shared\CEQA or AQMD COMMENTS\AQ Analysis Waivers\2024\1 Bullard Place	

# KUHL RESIDENCE

1 BULLARD PLACE (APN: 011-030-058)



# RECEIVED

SEP - 9 2024

EL DORADO COUNTY PLANNING AND BUILDING DEPARTMENT

# BURNE EN GINEERIN () (930) 612-1600

30-058)

COVERSHEET KUHL RESIDENCE 1 BULLARD PLACE (APN: 011-030-05 POLLOCK PINES, CA

# SHEET INDEX

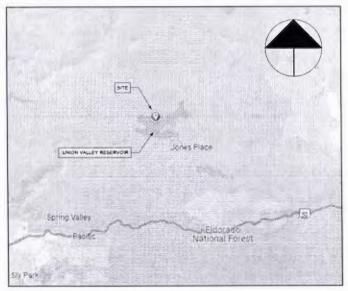
A0.0 COVERSHEET
A0.1 ARCHITECTURAL NOTES
A1.0 ARCHITECTURAL NOTES
A2.0 ELEVATIONS
A5.0 ARCHITECTURAL ROOF FLANS
E1.0 ELECTRICAL FLANS
61.0 GAS PIPINS FLAN
51.0 STRUCTURAL FLOOR FLANS
52.0 FOUNDATION & MAIN FLOOR FRAMING FLANS
59.1 UPPER FLOOR FRAMING & ROOF FRAMING FLANS
59.1 STRUCTURAL DETAILS
50.2 STRUCTURAL DETAILS
50.3 STRUCTURAL DETAILS

C1 - C4 CIVIL PLANS



AO.0

# VICINITY MAP



# SCOPE OF WORK

CONSTRUCT A NEW RESIDENCE.

# SQUARE FOOTAGE SUMMARY

MAIN LEVEL	1120 ft <sup>a</sup>	
LOWER LEVEL	783 €°	
UPPER LEVEL	435 R*	
	2550 ft*	
ENTRY DECK	173 80	
	173 ft <sup>a</sup>	

## PROJECT INFORMATION

CONSTRUCTION TYPE: V-B
OCCUPANCY GROUP: R9
STORMES AROVE GRADE: 9
ST

HERS VERIFICATIONS REQUIRED (see below)  visions Assertibles  Reading Price for Shearing Not Required. Cool Ruof Shingles Not Reposited. Chelling - Rich But or bitters on List, Versital Alles, Meast or Come Boof Versital California - Rich But Not California, Shearishing. Come of Asserting Annual California - Rich But Not California, Shearishing.  Figure 7-30 Shearing Shearishing.  Figure 7-30 Shearing Shearing.  Figure 7-30 Shearing Figure - Rich Reposited.  Lindaground Water - Not Concrete/Masorony, 2nd Wood Forme, R-21, Opp. Figure 7-30 Shearing Shearing.  Figure 7-30 Shearing Figure - Rich Reposited.  Figure 7-30 Shearing Shearing.  Figure 7-30 Shearing Figure - Rich Reposited.  Figure 7-30 Shearing Shearing.  Figure 7-30 Shearing Figure - Rich Reposited.  Figure 7-30 Shearing Shearing.  Figure 7-30 Shearing Figure - Rich Reposited.  Figure 7-30 Shearing Figure - Rich Reposited.  Figure 7-30 Shearing Figure - Rich Reposited.  Figure 7-30 Shearing.	ect: Kuhl Cutom Home 1 Bullerd Ptace Climate Zone: 16		ency Standards	
HERS VERIFICATIONS REQUIRED (see below)  silicos Assentiates  Floriday - 1 Add and Other Confidence on Ground, Note Tourney, Not Young Floriday  Floriday - 1 Add and or Verification of Note (see and of Cong Rost  Verification - 2 Add and or Verification of Note (see and of Cong Rost  Verification - 2 Add and or Verification of Note (see and of Cong Rost  Verification - 2 Add and or Verification - 2 Add and of Cong Rost  Verification - 2 Add and or Verification - 2 Add and of Cong Rost  Verification - 2 Add and or Verification - 2 Add and of Cong Rost  Verification - 2 Add and of Cong Ross  Verification - 2 Add and of Cong Rost  Verification - 2 Add and and and and and and and and and a				
Silling All part or Silver on Shreating Next Place Mark Andre. Maked Andre Order Roof Poor Roof Very Bod Sart or Silver on LLL Versital Andre. Marked Poor Roof Versital Calling P. 508 billing or Silver or S	owing minimum assemblies and efficiencies.			
Routing - Radient Berefer on Shawang lake TReguland. Coof Roof Shawang lake Treguland. Very Cooffee Shawang and Shawang lake Treguland and Shawang and	HERS VERIFICATIONS REQUIRED (see below)			
Vigaled Calling # 1-33 in Value Cowley, Dreambay, Cowing or March 1990.  Intrinsiption of Nation - 1990.  Interest Price of A-30 Related Photo	Roofing = Radiant Berrier on Sheeting Not Required. Cool Roof Shingles Not Required. Colling of Rolfs but or history on Lid Variet Aric. Material or Comp. Boof.			
Front Door Otherwitides: 319 degrees (on plot plant)  **Trick**  **Arrange Vivingland Total = Wood, Viringt, or T.S., Metals, Argon, Law-E3 (19–28 & edgor-35)  **Elliphights T-Sofe T-Subars = 1404  **Trick Total = Million	Vaulted Ceiling = R-38 in Vault Cavly, Sheething, Comp or Metal Roof Wells = 2x6, R-21, Wood Skiling or Stucco Linderground Walls = Min. 6" Concrete/Majonny, 2x6 Wood Frame, R-21, Gyo.			
Investigate 3 Food 1 February 1-August 2014 (1992) Being 1/2 South February 1-August 2014 (1994) Being 1/2 South 1/2 S	Front Door Orientation: 315 degrees (on plot plan)			
TE. Princere PALI Area for Manne Electrification, required par Mondatory Measures NEV EVEX of Grown B130/RES for equally rated at 116cm, SRE SB. ASTRE SD. 60vents HRV EVEX of Grown B130/RES for equally rated at 116cm, SRE SB. ASTRE SD. 60vents HRV EVEX of Grown B130/RES for equally rated at 116cm, SRE SB. ASTRE SD. 60vents HRV EVEX of Grown B130/RES for equally rated at 116cm, SRE SB. ASTRE SD. 60vents HRV EVEX of Grown B130/RES for equally rated at 116cm, SRE SB. ASTRE SD. 60vents HRV EVEX of Grown B130/RES for equally rated at 116cm, SRE SB. ASTRE SD. 60vents HRV EVEX of Grown B130/RES for equally rated at 116cm, SRE SB. ASTRE SD. 60vents HRV EVEX of SB. ASTRE SD. 60vents HRV	Average Weighted Total = Wood, Viryt, or T.S. Metal, Argon, Law-E3 (U=.28 & efect=.35)			
TE. Princere PALI Area for Manne Electrification, required par Mondatory Measures NEV EVEX of Grown B130/RES for equally rated at 116cm, SRE SB. ASTRE SD. 60vents HRV EVEX of Grown B130/RES for equally rated at 116cm, SRE SB. ASTRE SD. 60vents HRV EVEX of Grown B130/RES for equally rated at 116cm, SRE SB. ASTRE SD. 60vents HRV EVEX of Grown B130/RES for equally rated at 116cm, SRE SB. ASTRE SD. 60vents HRV EVEX of Grown B130/RES for equally rated at 116cm, SRE SB. ASTRE SD. 60vents HRV EVEX of Grown B130/RES for equally rated at 116cm, SRE SB. ASTRE SD. 60vents HRV EVEX of Grown B130/RES for equally rated at 116cm, SRE SB. ASTRE SD. 60vents HRV EVEX of SB. ASTRE SD. 60vents HRV	AC:			
TE: Pre-em FALI Area for human Electrification, required part Mondatory Measures  Ducting = FALS for humand ducts to Stephanis of rest 2 MeVer 18 M	Whole House Fan = Not Required Total Zone = 8080tu Ducted Gas Fumace made as a minimum 95% after			
HRV (ERV = Brans B130HB) (or equal) retails of a 119cfm, SRE SA, ASRE SA, A	TE: Pre-wire FAU Area for future Electrification, required par Mandatory Measures	P.44 400 F.5		
Siding of PNAC equipment is for reference only to properly story; and installing the HVAC system.  Bill EPAL Billiminum 5.0 MVBC 190 Across 12 Color Across 12	HRV ( ERV = Brown B130H65 (or equal) rated at 119cfm, SRE .56, ASRE .62, 69wetts		Compliance Orborio	witness are column discussion.
Mechanical Contractor responsible for properly stating and remaining the HVAC system.  EV. J. Millionium, 50 8 Webs, 11 90. Annual 7.200g, An	HRV / ERV = All components (supply Inlet, filter, cores) are accessible per RACM Sizing of HVAC equipment is for inference only.		Varied ryage bond, including applicate	o-currys ferred combinations shall cased allo
Internation 50 Nethbook 190 Activates 10 Net	Mechanical Contractor responsible for properly sizing and installing the HVAC system.	Audioses United	Differ backer-palation flow, suchabing di	promote the case (200 Cyc) in a subsequit of
ERS Indicator Air Quality (Salamont HPV (11 Scholl) Verification 3 - NPV Programments ERS Verification of R-7.2 Hot Water Plays Indicator (per balles to 200.00-4 - attachment & some PV or ANAM) ERS Verification of R-7.2 Hot Water Plays Inquisition  1 h. Nature Indicator (R-7.2 Hot Water Plays Inquisition  2 d. Am (10 h. Mark)  1 h. Nature Indicator (R-7.2 Hot Water Plays Inquisition  2 d. Am (10 h. Mark)  3 d. Am (	gr P.V., Minimum 6.0 kWdc / 180 Azimuth / 22deg Army / 4.6 Titt / 96% Inverter Elf tery Storage; Besic Control, 12kWh (60amp), 96% Chenging/Discharging Efficiency, 5kW Rave	Harrantineed Miches	Other Michigan authorist force, including d	words. Milden D.M. Life
Page 200  Fig. 2	ERS Verification / Testing Required:			
ERS Out Linkings Test (1995).  Statistics of P.2. Medical Medical State (1994) and the state of the properties of the state of the properties of the state of the properties of the state of the state of the properties of the p	ERS Indoor Air Quality Balanced HRV (119cfm) Verification & HRV Requirements ERS Vestication of Kirchen Exhaust Havet (ner tables 150 D.CH ettached & ner HVI or AHAM)	Application		Contribit vectoria griddi
Table 150-0 Electric or Gas (Pre-view for Adure Electrification required par Mandatory Massaures)  Page 129  Page 12	ERS Duct Leakage Test (<5%)	- Egyland Michel	Such, house on history volume	The state of the s
(1) Internet" Enriches Claser cased of a mine. 1996/00/2002 in pour and a crim. 35 LEEF. R-2.2 pipe republicon regulated on all foot vester pipes. NO Reach.: Pre-vales for fluide Executification required part Manufactury Manuscures in "Science Sept — Electric cor Class (Pre-view for fluide Electrification required part Manufactury Manuscures)  ### Table 155-04 Station Strang Fluide Sept — Electric Cor Class (Pre-view for fluide Electrification required per Manufactury Manuscures)  #### Table 155-04 Station Strang Fluide Sept — Electric Cor Class (Pre-view for fluide Electrification required per Manufactury Manuscures)  ###################################		Bellrown	20 clm (10 Lbk	
Significant (Control (Control (Pre-view for fallure Electrification required per Mandatory Measures)  RECTOR 1888 - Intelligence (Control (Pre-view for fallure Electrification required per Mandatory Measures)  RECTOR 1888 - Intelligence (Control (Pre-view for fallure Electrification required per Mandatory Measures)  RECTOR 1888 - Intelligence (Control (Pre-view for fallure Electrification required per Mandatory Measures)  Rector (Pre-view for fallure Electrification required per Mandatory Measures)  Rector (Pre-view for fallure Electrification required per Mandatory Measures)  Rector (Pre-view for fallure Electrification required per Mandatory Measures)  Rector (Pre-view for fallure Electrification required per Mandatory Measures)  Rector (Pre-view for fallure Electrification required per Mandatory Measures)  Rector (Pre-view for fallure Electrification required per Mandatory Measures)  Rector (Pre-view for fallure Electrification required per Mandatory Measures)  Rector (Pre-view for fallure Electrification required per Mandatory Measures)  Rector (Pre-view for fallure Electrification required per Mandatory Measures)  Rector (Pre-view for fallure Electrification required per Mandatory Measures)  Rector (Pre-view for fallure Electrification required per Mandatory Measures)  Rector (Pre-view for fallure Electrification required per Mandatory Measures)  Rector (Pre-view for fallure Electrification required for fallure for fallure electrification required for fallure for fallure electrification required for fallures)  Rector (Pre-view for fallure)  Rector (P	(1) Instant/Tankless Gee reset at a max. 1990bits input and a min95 UEF, R-7.2 pipe insulation required on all hot water pipes. No Recirc. Pre-wire for future Electrification			
Figure 2009  Finally 150.0—6 Statuture Stronger Statut Antique Statute (plans and AST SE SERIO Cognitive Signiture) Statute St	nn/Stove top = Electric or Gree (Pre-wire for future Electrification required per Mandatory Messures)			
Trailer 130.0-of Statutum Recognition of Art Statutum Statutes (places and Art Statistics Strength of Statutum Statutes)  Facility Statistics Area (197)  Statistics Statistics	mass buyen = Calculus or Gods (Fire-wire for Halling Expositionion required per minimality engineerings)			
Table 1310—36 Stathen Proop Front Angle Stathen Sharey (place and ATTHE SEAD Cognitive Stiglishmany (CE) Institute Assuming to the Proop Angle State of Control State Attended State (Page 12) State Control State Attended State (Page 12) State Control State Control State (Page 12) State Control State		SECTION 18818 - MANISATORY	PEATURES AND DEVICES	
Table 1310—36 Stathen Proop Front Angle Stathen Sharey (place and ATTHE SEAD Cognitive Stiglishmany (CE) Institute Assuming to the Proop Angle State of Control State Attended State (Page 12) State Control State Attended State (Page 12) State Control State Control State (Page 12) State Control State				
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Commission than Prince Prince   Commission		ragin sur		Building Emergy Efficiency Strendard
1300 1000 1000 1000 1000 1000 1000 1000				
Visit   Visi				
7(5) - 1(50) 99% CE or 130 c/m 98% CE or 130 c/m		Table 150.2-6 Righes Range I According to Consiling Unit Floor Area (Fr)	toppi Airflow States (cflor, and Air Tot ESI Comeding Leak House Area and Elischen Mond Ower Electric Stronge	SSP Capture Afficiency (CE) Analogs Range Fuel Type Hand Criss Retained Son Earnige
Tends 1556-01 Proprietor Vivoletoria (pidero fluct States) (A) Plant 64.2 Pider 6.3]  Inter Gifferon Basing, dive statistics and states and sta		Table 130.0-6 Altaben Reage In According on Counting Unit Plant Arab (8°) >1500	toppel Adrillom Balance jeglen; and AST 24 EST to Campling Lord Plans Almo and Kills Lorn Stand Over Worldrift Benga SON CE or 130 clin	IAI? Capture Afficiency (CE) Audings Benge fuel Type (Hond Coint Robust Son Enega 7416 CE or 180 clin
The define function and all all all all all all all all all al		Table 150.0-6 Ritches Reage I According to Consiling birth Priors Avais (R) > 1500 > 1000 - 1100	tiqued Airflow Balans (cflor) and ASTAG EST to Camelling (with Plans Almo and Killchein Stand Over Worldric Birngs SOB CE or 130 cflor 900 CE or 130 cflor	IAIT Copture Rifficiency (CE) Analogo Renge Aust Type Homid Own Redworld Sen Bango 7495 CE or JUD clim 6095 CT or 235 clim
The define function and all all all all all all all all all al		Table 150.0-6 Nitchen Rouge I According to Consiling Unit Floor from 6th > 1500 > 1000 - 1500 750 - 1000	toud Airflow finites (cfm; and Air Tale EX Comeling Unit Plans Area and Rischen Hand Own Whitch filmings SINE Ce or 130 cfm 500 CE or 130 cfm 75% CE or 130 cfm	ISSP Claysture Afficiency (ICE) shatings Harryin Aser Fyyde Hoped Owne Replaced Spe Harryin 790 C.C or J.D.C class 8014 CT or 255 class 8035 CT or 250 class
of the scale former state and state		Table 150.0-6 Ritches Reage I Consiling Unit Florer Association of \$1500 - 15000 \$1500 - 15000 \$1500 - 15000 4750	Named Adriftion States; juffer, and AST 26 EAST 2000.  Conceiling front Plans Amou and AST 26 EAST 2000.  SON CE or 130 clin.	IBP Capture Afficiency (FC) Audings Renge And Type: (Head Own Walness Bless Brego 70% CE or 350 clin 60% CE or 250 clin 65% CE or 250 clin 65% CE or 250 clin
By a minimum to 13 and 14 and 15 and		Table 150.2-6 Ritches Rouge I Committing Unit Plant Association of  > 1500 > 1500 > 1500  YSG - 1500  4790  Feelst 150.6-M Person	Named Adriftion States (after, and AST 26 EAST 26 E	IBP Capture Afficiency (FC) Audings Renge And Type: (Head Own Walness Bless Brego 70% CE or 350 clin 60% CE or 250 clin 65% CE or 250 clin 65% CE or 250 clin
No. Insert **Per Right Annie . Ump		Table ASIG-O Billabre Renge in According United Floor Indiana 1920 -	Anythone Balance (nglam), and AS That ESE Conceiling (nich Thora Anne and AS That ESE Conceiling (nich Thora Anne and AS That ESE CONCEIL CO or 330 clim 500 CC or 340 clim 500 CC or 34	ISBN Chipthare Efficiency (FC) Anathogs Brouge hard Syste Whose Chair Resisted Stan Brouga 79th CE or 35th Cells 600, CE or 25th Cells
Maleures than Statement and \$ 2 \$ 6 \$ 7 \$ 9 \$ 5 \$ 10 pm per formation and the second and the sec		Table 1510-04 Bitches Fauge 1 Committing With Plant According Committing With Plant According 1500 1500 1500 1700 1700 1700 1700 1700	Anythone Balance (nglam), and AS That ESE Conceiling (nich Thora Anne and AS That ESE Conceiling (nich Thora Anne and AS That ESE CONCEIL CO or 330 clim 500 CC or 340 clim 500 CC or 34	ISBN Chipthare Efficiency (FC) Anathogs Brouge hard Syste Whose Chair Resisted Stan Brouga 79th CE or 35th Cells 600, CE or 25th Cells
In panel ** For Remember 1: 2001 (2001 (2001) (2001		Table 150.0-d Bibbie Reapy Section (Section Reapy Section Reapy Section Reapy Section Reap Section Reapy Section Reap Section Reapy Section Reapy Section Reap Section Reapy Section Research Reapy Section	Topic Anglian States (glob, and Al Tal & Co.	IBP Cognium (Biplicine) (ICE) Mallings Rengin Auf Typice (Street Const Restored Bios Rengin Yilli CE or 300 clin 800 CE or 200 clin
<ol> <li>For eventually ducks, or classified and the distriction of the contract of the contract of the previous of the previous of the previous of the previous of the distriction of the previous of the distriction.</li> <li>Use of this halfs for well-formed films carry patients or date, the last to the fifty entered and only fine of other patients or date.</li> <li>If the office of the contract of the distriction of the contract of the distriction of t</li></ol>		Train 1810-4 Billion Reage   Section	The state of the s	IED Copinum (Spicinum) (CC) Analogue Renge Aust Paper (House) Com Manisted dies Entiges 790 CC or 200 cles 800 CC or 200 cles 8
<ol> <li>Use of this halfs for well-fined after a security of the control of the care patients received the last to be fully assessed and any fixed distances to the control of the co</li></ol>		Table 135.7-4 Staylor Reapy	The state of the s	IED Copinum (Spicinum) (CC) Analogue Renge Aust Paper (House) Com Manisted dies Entiges 790 CC or 200 cles 800 CC or 200 cles 8
shimen to these a memoral relation of capital to detail demands of \$1.0.  4. For this scanners, one of effects of \$1.00 confidence for the capital of \$1.00 confidence for \$1.00		Table 130.0-4 Bitchine Recognition Committing that these from \$60.00000 \$10000-10000 \$10000-10000 \$4700-10000 \$4700-10000 \$4700-10000 \$4700-10000 \$4700-10000000000000000000000000000000000	Description	887 Organium (Spicinum) (CC) Anthonys (Revigin And Typice Internal Project Internal Court Restorated Size Revigin Year Court C
Chate or depend to 3 in (75 most)		Train 181-2-6 Bitches Reage   Security   Controlling in Controllin	The state of the s	IED Coputour Spicioney (CC) Analogue (Respondent Paper (Freed Colon Resound Sin Respondent Paper (Freed Colon Resound Sin Respondent Colon Resound Sin Respondent Colon Resource (Freed Colon Resource
them or edged to 3 th (25 deep)		Table 130.0-4 Bitches Reapy Controlling to Controlling that these from (65) 15000 - 15	Continue	287 Organium (Spicienes) (CC) Anthropis (September 1994) Rengel And Figure (Straud Chair Rengel And Figure (Straud Chair Rengel And Figure 230 data (SSIC) CE or 250 data (SSIC)
		Train 1810-5 di Bathon Reage I Generalità del Carterillo de la Carterillo	Continue	287 Organium (Spicienes) (CC) Anthropis (September 1994) Rengel And Figure (Straud Chair Rengel And Figure (Straud Chair Rengel And Figure 230 data (SSIC) CE or 250 data (SSIC)
is static pressure greatment flower or agencies to \$2.50 km, of water set The coding point plant and the propagation, and the airflow totaled in the agency produced disordancy comparating facilities complement angainer angainer and produce anything produced in comparating and produced produced produced and produced p		Table 130.7-d Blacken Resport George Special Control of the Contro	seed Antifluer before july, and ATTA EX Descripting their Plant Anne med Exclusi- tions of the Control of the Control State Core 1120 dec 500 CC or 120 dec 500 CC or 120 dec 500 CC or 120 dec 600 CC or 120 dec	IED Cognary Spikinery (CC) Analogue Through New Spiker Spi
applied to Table 150 04 for determining compliances.		Train 183.5-d Batches Reager Scart Country of Country o	And Andrew States (spin, and All Tal SE and Description of Mark Andrew States). Description of Mark Andrew States (See See See See See See See See See Se	200 Cognarie Spiloterey (CC) Audings (Marings Marings American (Marings Marings American (Marings Marings Mari

Rener: Authority: Sections 25213, 25218, 25218 S, 25407, and 27408.1, Politic Resources Copin Reference: Section 25007, 25008, 25218.5, 25318, 25402, 25402.3, 25402.5, 25402.8, and 25043, Pupile Resources Code.

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GREEN BUILDING CODE NOTES:

FLUMBING FIXTURES AND FITTINGS REQUIRED IN SECTION 4:303.1 SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA FLUMBING CODE. AND SHALL MEET THE APPLICABLE REFERENCED STANDARDS. GOBSC 4.909.2

4.309.2
Autohatic Irrigation Systems controllers installed at the time of final inspection Syall be provided path integral rain bensors or soil moisture sensors that adjust irrigation in response to change in plants needs as vertiber conditions

RESPONSE TO CHANGE IN PLANTS REEDS AS PRATTER CONDITIONS CHANGE. GRESS 4.304.1 ANNUAL SPACERS AROUND PIPES, ELECTRICAL CABLES, CONDUITS OR OTHER OPERINGS IN PLATES AT EXTENDIT MALL SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY CLOSING SUCH OPERHING PIRTH CEMERT MORTAR, CONCRETE HASOINGY OS SIMILAR ACCEPTABLE

METHODS. CGBSC. 4.406

A MINIMUM OF 69 PERCENT OF THE CONSTRUCTION MASTE SENERATED

AT THE SITE SHALL BE DIMERTED TO RECYCLE OR SALVAGE. CGBSC.

AN OPERATION AND MAINTENANCE MANUAL SHALL BE PROVIDED PRIOR TO FINAL INSPECTION, COBSC 4.410.1 GAS FIREFLACES SHALL BE A DIRECT-VENT SEALED COMBUSTION TYPE

MOOD/PELLET STOVES SHALL COMPLY WITH U.S. EPA NEW SOURCE PERFORMANCE STANDARDS (NSPS) EMISSIONS LIMITS, CGBSC 4,503,1 DUCT AND YENT OPENINGS SHALL BE COVERED DURING CONSTRUCTION

COBDG 4.994.1 ADHESIVES, SEALANTS AND CAULK SHALL BE COMPLIANT METH YO'G AND OTHER TOXIC COMPOUND LIMITS. GGBSC 4304.2.1 PAINTS, STAINS, AND OTHER COATINGS SHALL BE COMPLIANT METH YO'C LIMITS.

12.

PAINTS, STAINS, AND OTHER CORTINGS SHALL BE COMPLANT PRITH YOU.

LINITS.
AEROSCE PAINTS AND COATING SHALL BE COMPLANT PETH PRODUCTS
AEROSCE PAINTS AND COATING SHALL BE COMPLANT PETH PRODUCTS
AEROSCE PAINTS AND FOR ROC AND OTHER TOME COMPOUNDS.
DOCUMENTATION SHALL BE PROVIDED TO VERIFY THAT COMPLANT YOU.
LINITT PRISH MATERIALS, SHAVE BEEN USED. COSES 4504.24
CARRET AND CARRET SYSTEMS SHALL BE COMPLANT WITH YOU LIMITS.
COSES 4505.25
CASES 4505.25
C

DUCT SYSTEMS SHALL BE SIZED AND DESIGNED AND EQUIPMENT SHALL BE SELECTED USING THE FOLLOWING METHODS CGBSC 4.501.2
A ESTABLISH HEAT LOSS AND HEAT GAIN VALUES ACCORDING TO

ANSWACCA MANUAL J-2019 OR EQUIVALENT SIZE DUCT SYSTEMS ACCORDING TO ANSWACCA 1 MANUAL D-2016

SELECT HEATING AND COOLING EQUIPMENT ACCORDING TO ANSVACCA 3 HANUAL 5-2014 OR EQUIVALENT

## PLUMBING FIXTURE REQUIREMENTS:

PATER CLOSETS: <= 1.28 gmRush CGBSC 4.303.1 SINGLE SHOWERHEADS: <= 1.5 gpm @ 80 psl. CGBSC 4.303.1.3 MULTIFLE SHOWERHEAD: COMBINED FLOW RATE OF ALL SHOWERHEADS ANDIOR OTHER SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE 

## MATER HEATER NOTES:

MATER HEATER SHALL HAYE ISOLATION VALVES ON BOTH THE COLD MATER SUPPLY AND THE HOT MATER FIPELLEAVING THE MATER MEATER. AND HOSE BIBS OR OTHER FITTINGS ON EACH VALVE FOR FLUSHING THE MATER HEATER MHEN THE VALVES ARE GLOSED. PROVIDE A MATER-TIGHT DRIP PAN OF CORROSION-RESISTANT MATERIALS

BENEATH THE MATER HEATER W A 3/4" DRAIN TO AN APPROVED LOCATIO A CONDENSATE DRAIN THAT IS A MAXIMUM OF 2" HIGHER THAN THE BASE OF THE INSTALLED MATER HEATER THAT ALLONS NATURAL DRAIN

MITHOUT PUMP ASSISTANCE SHALL BE INSTALLED.

A CATEGORY III, WOR A TYPE B YEAT PUTH A STRAIGHT PIPE BETWEEN THE OUTSIDE TERMINAL AND THE SPACE WHERE THE MATER HEATER IS LOCATED SHALL BE INSTALLED

OUTSIDE TERMINAL AND THE SPACE PAHERE THE PAHER HEATER IS LOCATED SHALL BE INSTALLED BY ANK TYPE PAHER HEATER REQUIRES 2 SEISMIC STRAPS, ONE TRAP PAHIN THE UPPER IS AND THE OTHER WITHIN THE LOYER IS OF THE OWNERS THAN SHALL BUT BE INTIMIA OF THE STORAGE TYPE AND THE STRAP SHALL BE THE LOYER IS OF THE STORAGE TYPE AND THE STRAP SHALL BUT AND THE STRAP SHALL BUT AND THE STRANGE OF THE STRALLED OF CONTROL THE STRANGE SHALL BUT AND THE STALLED BUT THE SAMASE SHALL BUT AND THE STALLED BUT THE SAMASE SHALL BUT THE STALLED BUT THE STA

SHALL BE GUARDED AGAINST DAMAGE BY A PROTECTIVE BARRIER
SHALL BE ELEVATED
SHALL BE LOCATED OUT OF THE NORMAL PATH OF VEHICLES.

WILDLAND URBAN INTERFACE NOTES:

THE PROJECT IS SUBJECT TO THE HILD AND URBAN INTERFACE
REQUIRENENTS. THE FOLLOWING METHODS FOR EXTERDIOR HILD PIRE

EXTERIOR PALL PRINSES I SIGNIC REQUIREMENTS: THIS PROJECT IS

CONSTRUCTED PRIN NON-COMBUSTRILE OR IGNITION RESISTANT AWARDBOARD CAMPATI SIGNIC REQUIREMENTS HERE FOR IGNITION RESISTANT AWARDBOARD CAMPATI SIGNIC PART MEET THE PERFORMANCE CARTERIA IN

ACCORDANCE PRINT THE TEST PROCEDURES FOR A 10-MINUTE DRECT
FLAME CONTACT BROWNER TEST SET FORTH IN SPIN STANDARD 1274-A.

VENTING-EVES & OVERHANGS: VENTILATION OPENINGS FOR ENCLOSED ATTICS, ENCLOSED EVE SOFFIT SPACES, ENCLOSED RAFTER SPACES ATTICS, ENCLOSED EVE SOFFIT PACES, ENCLOSED RATTER STACES FORMED MEREE CELINGS ARE APPLIED DIRECTLY TO THE UNDERSIDE OF RAD'T RATTERS, AND UNDERFLOOR VENTILATION OPENINGS WILL MEET THE POLLOWING REQUIREMENTS: 1) THE DIMENSIONS OF THE OPENINGS WILL BE A MINIMUM OF 11/16 I AND NOT TO EXCRED 11/5/1. 2) THE MATERIALS USED WILL BE NON-COMBUSTIBLE. 5) THE MATERIALS WILL BE CORROSION RESISTANT, YULCAN YENTS WILL BE USED TO MEET THESE

MINDOW GLAZING & DOOR PROTECTION: ALL OF THE FOLLOWING WILL BE

REGUIREMENTS.

HANDOM GLAZIMO & DOOR PROTECTION: ALL OF THE POLLOVINIA WILL BE WINDOM GLAZIMO & DOOR PROTECTION: ALL OF THE POLLOVINIA WILL BE WINDOWS. 20 SECTION DOOR SAFETY GLAZIMO: 1) EXTERIOR REGUIREMENTS OF BECTON DOOR SAFETY GLAZIMO: 1) EXTERIOR HANDOWS. 2) SEXTERIOR GLAZED DOORS. 3) GLAZED OFFENINGS FITHIN EXTERIOR BOORS. 4) GLAZED OFFENINGS FITHIN EXTERIOR GARAGE EXTERIOR BOORS. 10 GLAZED OFFENINGS FITHIN EXTERIOR GARAGE EXTERIOR BOORS. 10 GLAZED OFFENINGS FITHIN EXTERIOR BOORS. 10 GLAZED OFFENINGS FITHIN EXTERIOR BOORS. 10 GLAZED OFFENINGS FITHIN FITHING. APPROVAL THE PROPERTY INCL. BE IN COMPLIANCE FITHING FITHIN

#### DOOR NOTES:

ALL EXTERIOR DOORS SMALL BE SOUD CORE W STILES AND RAILS NOT LESS THAN 1-36" THICK WITH INTEROR PIELD PANEL THICKNESS NO LESS THAN 1-14" OR SHALL HAVE A FIRE RATING OF 20 MINITES. PER CRE (\$131.6)

### TEMPERED GLASS REQUIREMENTS:

SLAZING IN ENCLOSURES FOR OR HALLS FACING BATHTUBS OR SHOWERS I HERRE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 80" A.F.F. AND LESS THAN 80" FROM THE TUBISHONER HALL BE TEMPERED

SHALL BE TEMPERED.
GLAZING ADJACENT TO THE STAIRMAY METHIN 60" HORIZONTALLY OF GRAZING ADJACENT TO THE STANDAY THAT HIS BY WOULDN'S LLT THE BOTTON THEAD OF A STANDAY THAT HIS BY THOUGHT HAVE THE THEAD OF A STANDAY THAT HIS BY THOUGHT HAVE THE HOUSE OF THE TREAD SHALL BE TEMPERED.

OLAZING ADJACENT TO A DOOR AND PHARES GLAZING SILESS THAN BY A F.F., AND HELT THE BELOW REQUIREMENTS PER CRC ROOS. A

ALL MINDOPS ADJACENT TO AND DITHIN 32 OF BETTINE BOSE OF

TEMPERED GLASS IS REQUIRED IN AN INDIPIDUAL PIXED OR OPERABLE PARLE THAT REST ALL OF THE POLLOPING CONDITIONS:

A THE EMPOSED AREA OF AN INDIVIDUAL PARLE IS LARGER THAN 9 SQUARE PEET:

B. THE BOTTON EDGE OF THE GLAZING IS LESS THAN 13 INCHES ABOVE THE FLOOR.

C. THE TOP EDGE OF THE GLAZING IS MORE THAN 36 INCHES ABOVE THE FLOOR.

THE TOP EDGE OF THE GLAZING IS MORE THAN 36 INCHES ABOVE THE FLOOR.

HELDON PARLENS SURFACES ARE NITHIN 36 INCHES ABOVE THE FLOOR PARLENS SURFACES ARE NITHIN 36 INCHES GLAZING.

GLAZING.
GLAZING IN ALL FIXED AND OPERABLE PANELS OF SMINGING OR

SLIDING DOORS,

GLAZING ADJACENT TO STAIRWAYS OR LANDINGS WHEN THE

EXPOSED SURFACE OF THE GLAZING IS LESS THAN 36" ABOVE THE

FLANE OF THE ADJACENT WALKING SURFACE.

## EGRESS WINDOW REQUIREMENTS:

CLEAR OFEINE THAT IS A HIIIDLAN OF SAYNISH AND SOYNIDE.

ME SECRETION GRADE RADOR OFEINESS OR RELION GRADE
OPENINGS SHALL HAVE A HET CLEAR OFEINES AND OF NOT
LESS THAN 5 SQLAWE FEET.

SILL HEIGHT TO BE A HANGHIN OF 44" ABOVE THE FLOOR.

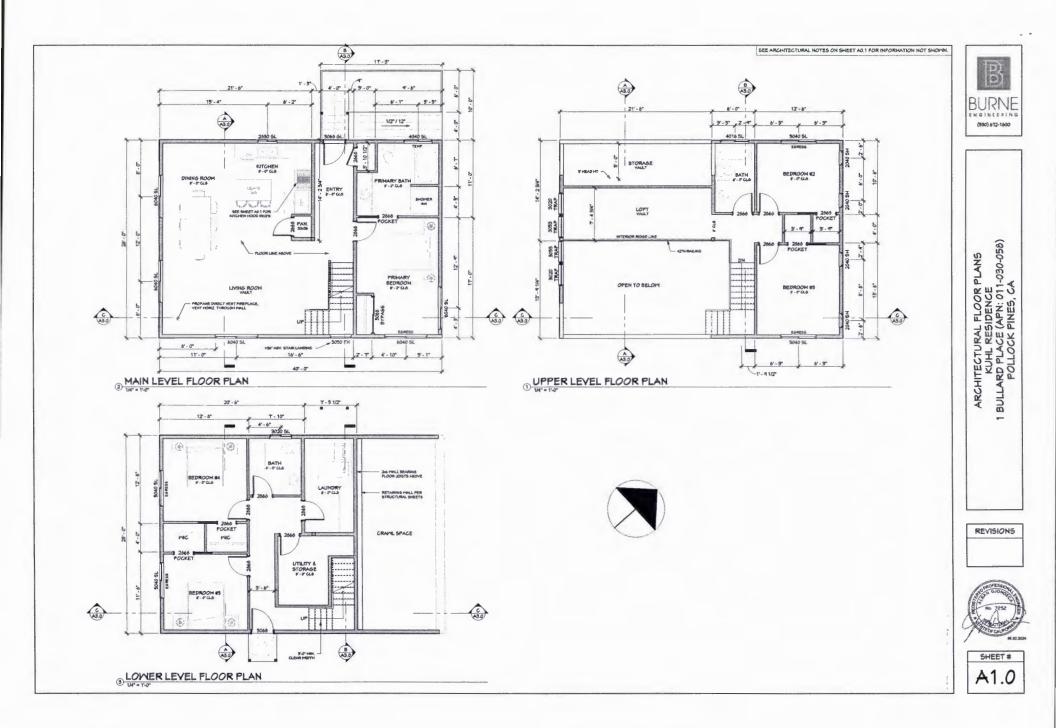


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REVISIONS



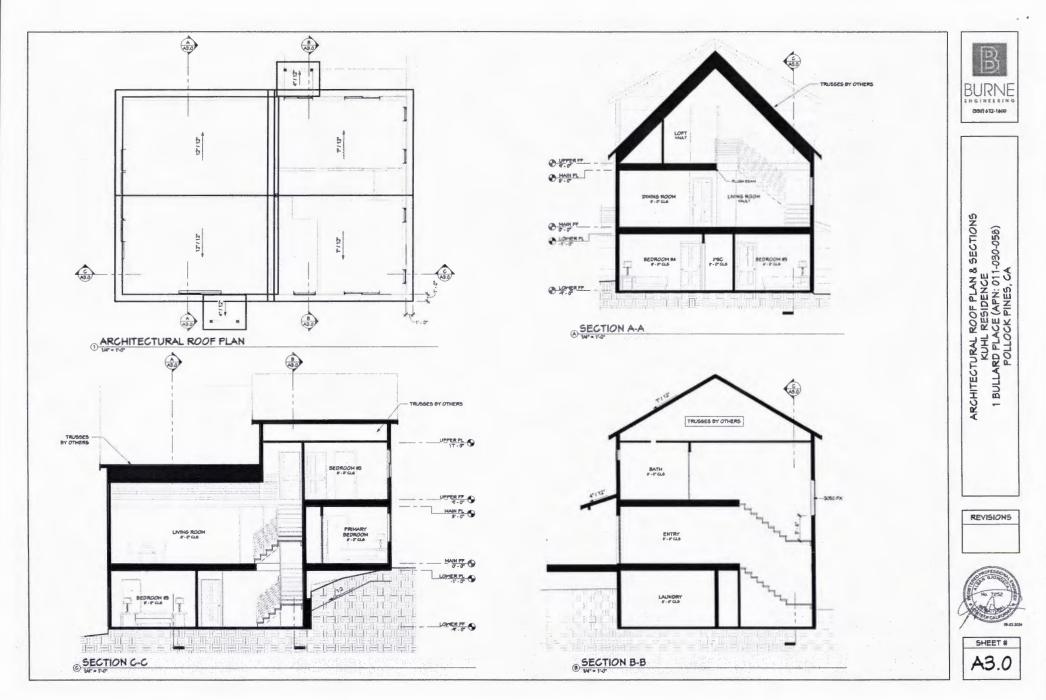
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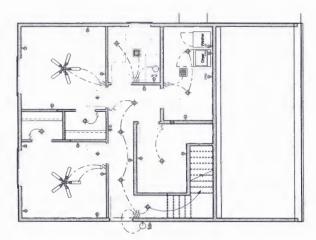




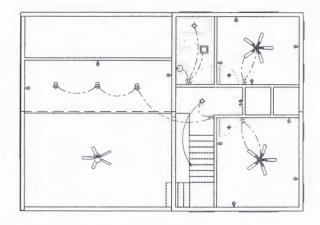




MAIN LEYEL ELECTRICAL PLAN



LOWER LEYEL ELECTRICAL PLAN



UPPER LEVEL ELECTRICAL PLAN

## ELECTRICAL NOTES:

COTRICAL NOTES:

SHORE DETECTORS I CARRON MONOXIDE DETECTORS FER RITH / R315 SHALL BE INTERCONNECTION, MARDWRIZD AND PITH BATTERY BACKLUP. SMOKE DETECTORS TO BE LOCATED AT LEAST AY FROM RETURN IN REGISTERS AND AIR DUCTS, PART LINGUISTED BY THE STATE FIRE.

HOUNTED UNITS TO BE PITHIN 12" OF CEILING AND LISTED BY THE STATE FIRE.

MARSHALL FOR PHALL MOUNTING, PROVIDE ONE SHOKE DETECTOR IN EACH SLEEPING.

AREA AND AT EACH LEVEL OF DIVELLING.

PROVIDES SWITCHED LISH'T AND OUTLET AT ATTIC CRAIM.

PROVIDE SWITCHED LISH'T AND OUTLET AT ATTIC CRAIM.

PROVIDE SWITCHED LISH'T AND OUTLET AT ATTIC CRAIM.

RYOVIDE SWITCHED LISH'T AND OUTLET AT ATTIC CRAIM.

PROVIDE SWITCHED SWITCHED UNIT RITCHEN, DRING ROOM, FAMILY ROOM, LIVING ROOM,

PRALIED IN DWILLING UNIT RITCHEN, DRING ROOM, FAMILY ROOM, SLOBETS, LAUNDRY

ROOMS, HALLIANTS AND SMILLAR ROOMS SHALL BE PROTECTED BY A LISTED ARC
PRALIT OF ROUTH TREPRUFFER COMBINATION TYPE, INSTALLED OF PROVIDE

AT LEAST ONE LIVINGHAME IN THE BATHROOMS, CARAGES, LAUNDRY ROOMS, AND

UTELLY ROOMS SHALL BE CONTROLLED BY A VACANCY SERVES BATED FOR

CEBLING FAN LOCATIONS USE ONLY CACANCY SERVES.

ELECTRICAL LEGEND:

SMITCH

S-MAY SMITCH

CEILING MOUNTED FAN PENDANT LIGHT FIXTURE MALL MOUNTED LIGHT FIXTURE SHOKE DETECTOR CARBON MONOXIDE DETECTOR

DUPLEX RECEPTAGLE MEATHERPROOF RECEPTACLE 220Y RECEPTACLE

GROUND FAULT CIRCUIT INTERRUPTER

CEILING MOUNTED LIGHT FUTURE CEILING MOUNTED LIGHT FIXTURE

- CELING PAN LOCATIONS USE ONLY DEC APPROVED LIECTINGAL BOXES RATED FOR SUPPORTING SCEIMS FANS. PROVIDE 30 CPM FOR ALL BATHROOM FANS, FANS MUST BE 3 SONE OR LESS. ALL NEW 125-YOLT, 15 AND 20 AMP RECEPTACLES IN THE DWIELLING UNIT SHALL BE TAMPER RESISTANT.
- TAMPER RESISTANT.
  ALL NEW HOT MATER SUPPLY PIPING FROM THE HEATING SOURCE TO THE KITCHEN
  FIXTURES SHALL BE INSULATED PER CEC SECTION 150 0 (1)2 M.
- ALL 15 OR 20 AMP, 125 OR 230 YOLT RECEPTACLES INSTALLED OUTDOORS IN MET LOCATIONS MUST BE LISTED MEATHERPROOF TYPE MHEN THE PLUG IS OR IS NOT

- LOCATIONS MUST BE LISTED PREATHERPROOF TYTE INHER THE FLUG IS OR IS NOT INSERTED.

  BRANCH CIRCUITS SERNICING SARAGE RECEPTACLES SHALL NOT SERVE OUTLETS BRANCH CIRCUITS SERVICING SARAGE.

  AT THE AC REQUIPMENT ELECTRICAL DISCONNECTS FOR EQUIPMENT SHALL BE NETHIN SIGHT OF THE EQUIPMENT AND NOT OVER 30' FROM THE UNIT.

  A GROUND RALL T CIRCUIT INTERRIPTER (FOR GOTT SEQUIPMENT SHALL BE NETHIN SIGHT OF THE EQUIPMENT AND NOT OVER SEQUIPMENT SHALL BE NETHIN SIGHT OF THE BOARDED DOOR OF THE RECEPTACLE ACCESSORY SUILDINGS ON CONTINUED IN THE GARAGE DOOR OF THE RECEPTACLE ACCESSORY SUILDINGS ON OUTDOORS, IN LIMPINISHED DASCHETIS, UNDER JODGE AREAS, LAUNDRY, UTILITY, AND RECEPTACLES SHALL BE INSTALLED SO THAT NO POINT HEASINED HORIZONTALLY ALONS THE FLOOR LINE IN ANY INALL SPACE IS MORE THAN IS' FROM A RECEPTACLE OUTLET HALL SPACES SHALL BE INSTALLED SO THAT HORT HAND IN SECRETICAL THESE EXCEPTACLES SHALL BE INSTALLED SO THAT HORT HAND IN SECRETICAL THESE EXCEPTACLES SHALL BE INSTALLED SO THAT HORT HAND IN SECRETICAL THESE EXCEPTACLES SHALL BE PROVIDED IN THE ROOMS, INCLUDING SHORE, INHINE ROOMS, LINHON ROOMS, BEINS BEDROOMS, ON SHILLAR ROOMS.

  LYMIN SECOND, DENS, BEDROOMS, ON SHILLAR ROOMS.

  LYMIN SECOND ON THE SECOND OUTLETS PANCH SHALL LAND NO OTHER OUTLETS.

  KITCHE EDONALST HOOD HUST CONFORM TO 2022 TITLE AS BUILDING ENERGY TERRICINED STATUPAND SHEED SHOWN OF THE PROVIDED TO SUPPLY SECOND STATUPAND SHEED SHEED STONG SERVED.
- 17.

LIGHTING REQUIREMENTS:

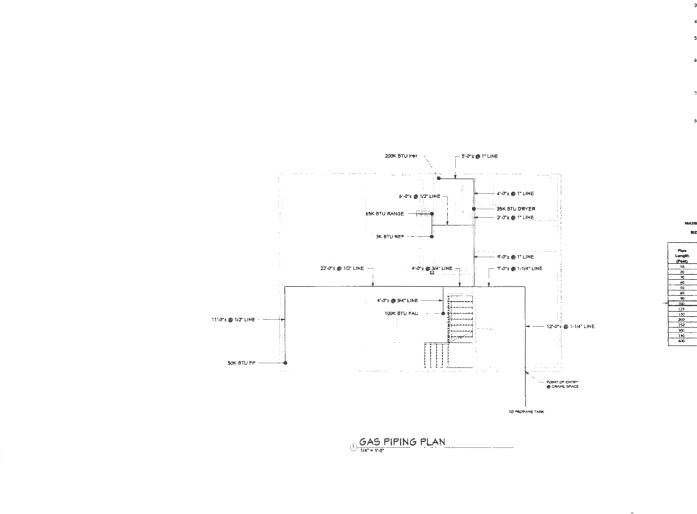
NOTE: ALL NEW LIGHTING TO BE LED, U.O.N.

- ALL INSTALLED LUHINARIES SHALL BE HIGH-EFFICACY IN ACCORDANCE W TABLE 150.0-A.

  ALL LUHINARIES REQUIRED TO HAVE LIGHT SOURCE CONFILIANT W REFERENCE JOINT
  APPENDIX JA, EXCEPT HALLPHAYS & CLOSETS OVER TO M. SHALL BE CONTROLLED BY
  DINHERS OR VACANCY SENSORS. (THIS APPLIES TO ALL GL-24 LEDs AND RECESSED
  LIMITATION OF THE STATE OF TH

- APPEIDIX AM, EXCEPT HALLWAYS & CLOSETS OVER 10 J. SHALL BE CONTROLLED BY DIMMERS OF YACANCY SENSORS, (THES APPLIEST 10 ALL GUYS LEDS AND RECESSED DIMMERS OF YACANCY SENSORS, CHESSED BY A STANCE YES SENSOR DIM BATHROOMS, SARAGES, LAUNDRY ROOMS, AND LITELY ROOMS, AT LEAST ONE LUMINARY IN BACK OF THE SPACES SHALL BE CONTROLLED BY A WARMY SENSOR OUTDOOR LIGHTING, ALL OUTDOOR LIGHTING SHALL BE CONTROLLED BY A MANUAL ON CONTROLLED BY A MANUAL ON CONTROLLED BY PROTOCELLED AND HOTHOR SENSOR, PROTOC CONTROLLED BY A MANUAL ON SYSTEM 100 BY PROTOCELLED AND HOTHOR SENSOR, PROTOC CONTROLLED AND TOMANIA SYSTEM 100 BY PROTOCELLED AND HOTHOR SENSOR, PROTOC CONTROL AND AND TOMANIA SYSTEM 100 BY PROTOCELLED SHALL REST ALL OTHER FOLLOWING THE 100.0 LUMINARY IS RECEIVED BY THE CELING SHALL HERE THAT OF PALLOWING THE 100.0 LUMINARY IS ANTIONITY OF THE THE THAT OF THE THE THAT OF THE THAT OF THE THAT OF THE THAT OF THE THAT OF

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### WATER HEATER NOTES:

- WATER HEATER SHALL HAVE ISOLATION VALVES ON BOTH THE COLD WATER HEATER SHALL HAVE ISOLATION VALVES ON BOTH THE COLD WATER SHIPT AND THE MOT HATER PIPE LEAVING THE PATER HEATER, AND HOSE 885 OR OTHER FITTINGS ON EACH VALVE FOR FLUSHING THE WATER HEATER WHEN THE VALVES ARE CLOSE NURSENSTANT MATERIALS BENEATH THE PATER FRANCES OF THE HOSTALLED VALTER HEATER WAS AND FRANK TO AN APPROVED LOCATIO A CONDENSATE DRAIN THAT IS A MADINUM OF THIGHER THAT THE BASE OF THE INSTALLED VALTER HEATER THAT ALLOWS NATURAL DRAIN WITNOUT THE MOSISTANCE SHALL BE HOSTALLED LOCATED SHALL BOWN THE PATER HEATER THE LOCATED SHALL BE HOSTALLED FOR THE PATER HEATER THE LOCATED SHALL BE HOSTALLED WATER HEATER THE LOCATED SHALL BE HOSTALLED FOR THE PATER HEATER SHALL BE HOSTALLED FOR THE PATER HEATER SHALL BE HOSTALLED FOR THE PATER HEATER THE LOCATED SHALL BE HOSTALLED FOR THE PATER HEATER SHALL BE FROWING THE PATER HEATER SHALL BE HOSTALLED FOR THE PATER HEATER SHALL BE HOSTALLED FOR THE PATER HEATER SHALL BE FROWING THE PATER HEATER SHALL BE HOSTALLED FOR THE PATER HEATER SHALL BE HOSTALLED FOR THE PATER HEATER SHALL BE FROWING THE PATER HEATER SHALL BE FROWING THE PATER HEATER SHALL BE FROWING THE PATER SHALL BE S

### GAS PIPING NOTES:

TOTAL DEVELOPED LENGTH OF PIPE = \$56-0" MOST REMOTE OUTLET = \$56.0" PIPING MATERIAL = SCHEDULE 40 METALLIC PIPE TOTAL BTU= 493K BTU

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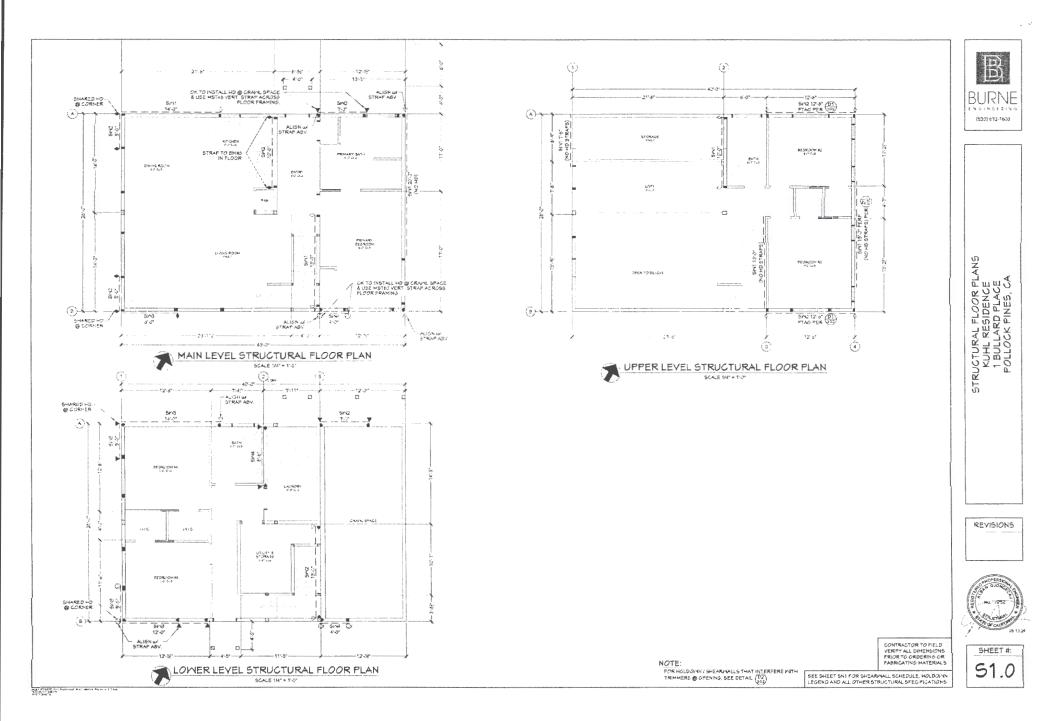
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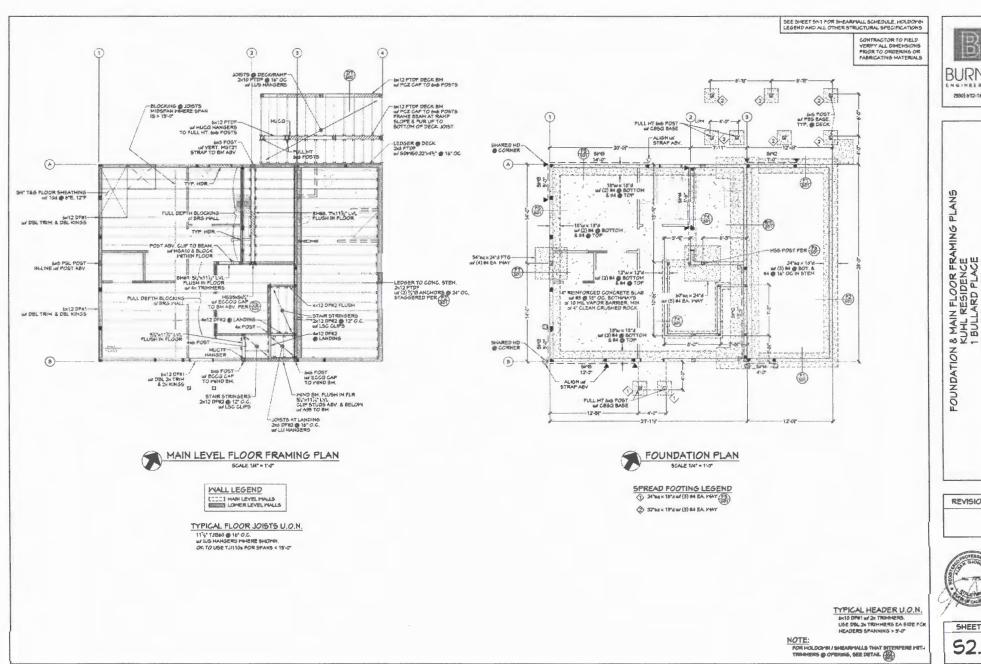


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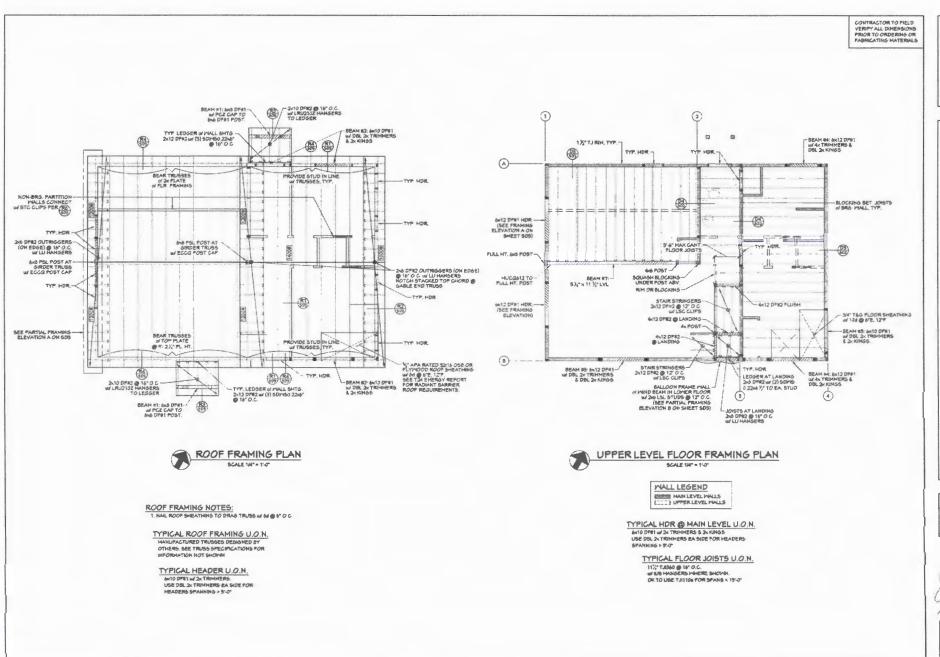


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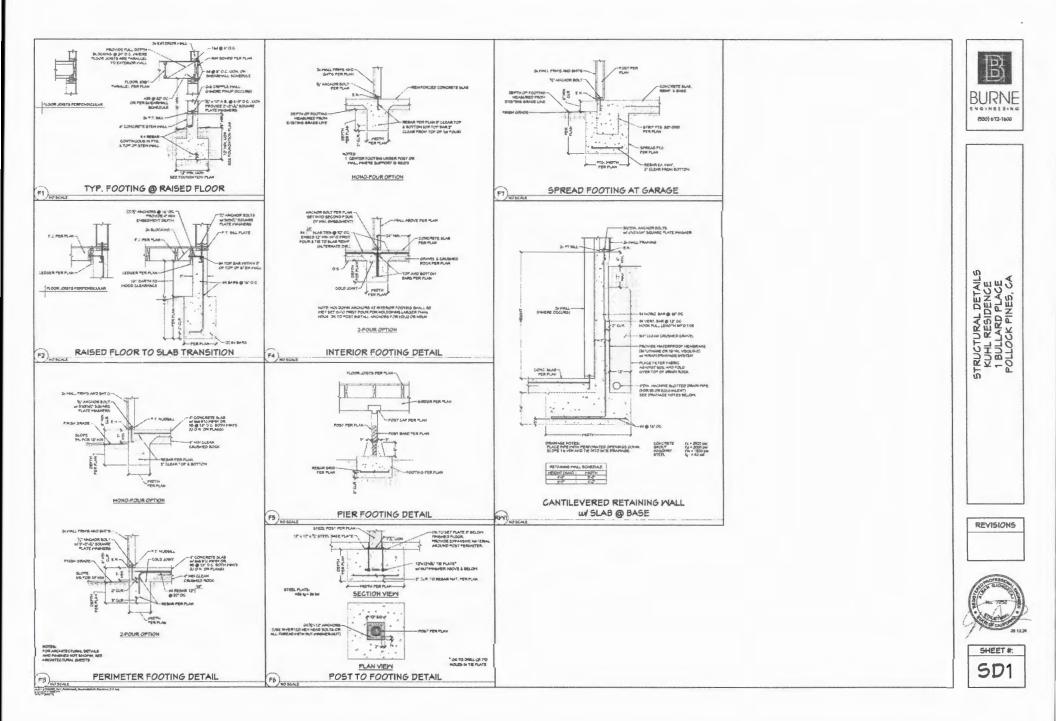


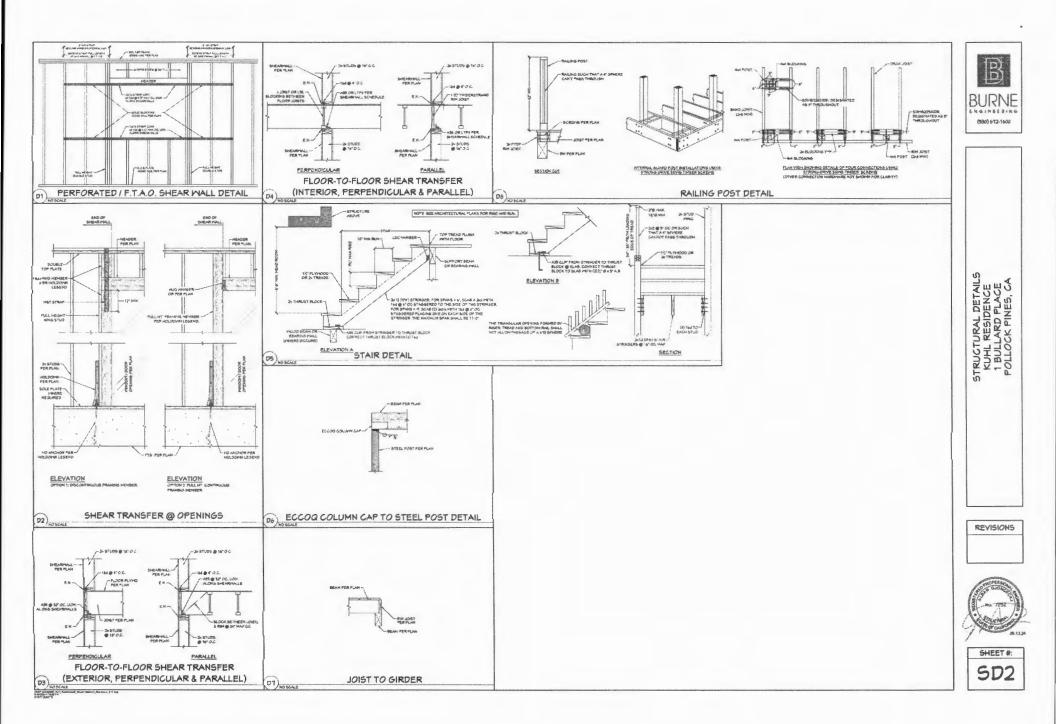
UPPER FLOOR & ROOF FRAMING PLANS
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POLLOCK PINES, CA

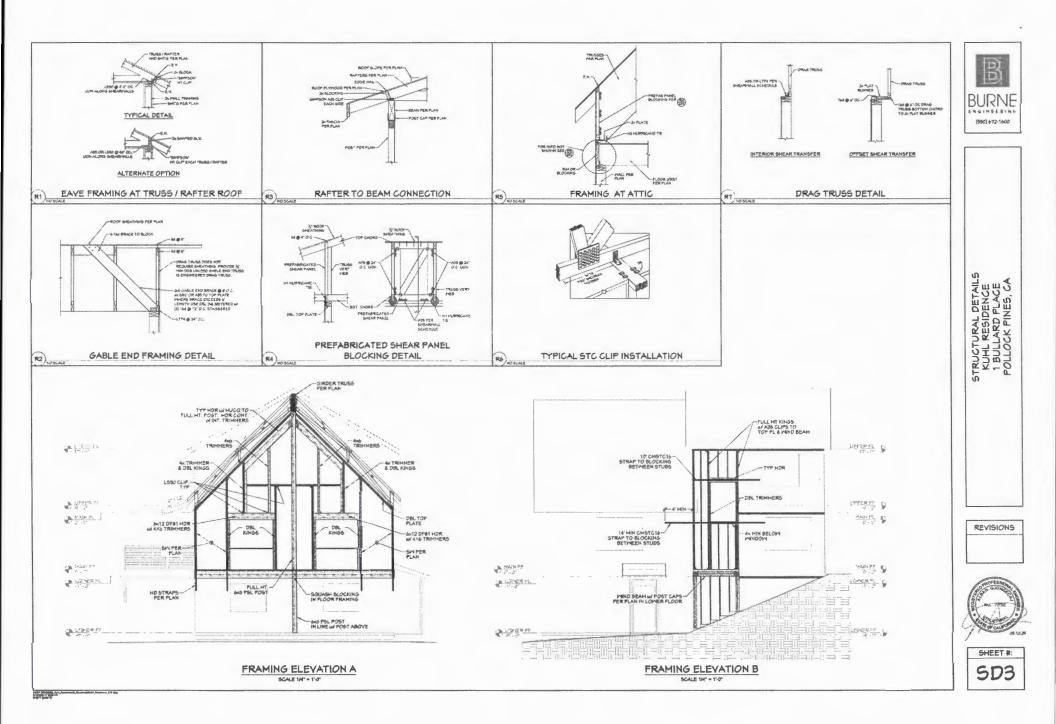
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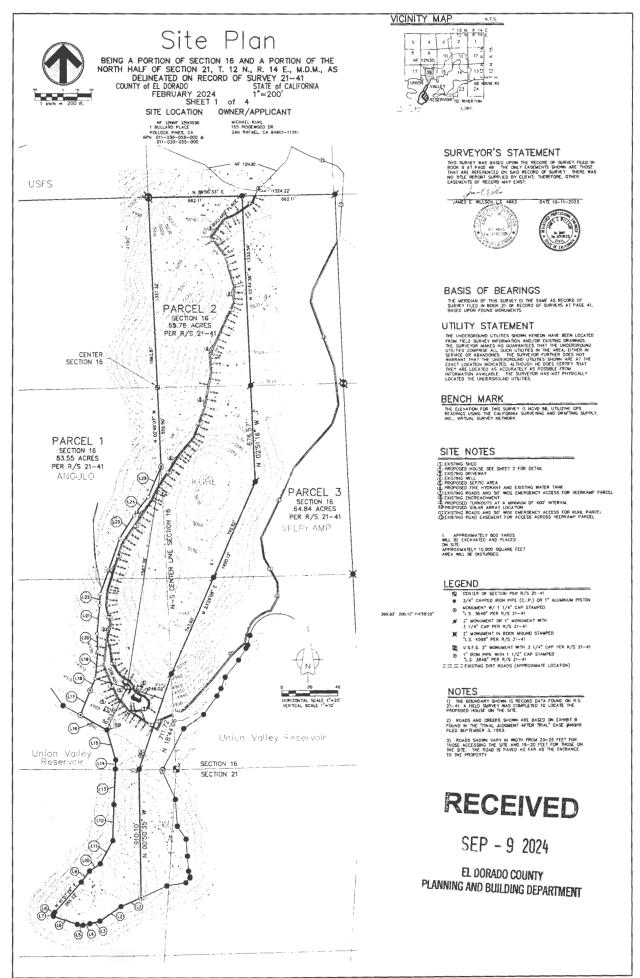
(530) 6T2-1600

STRUCTURAL NOTES KUHL RESIDENCE 1 BULLARD PLACE POLLOCK PINES, CA

REVISIONS



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THE CONTRACTOR OF THE CONTRACT OF THE CONTRACT OF THE CONTRACTOR OF THE CONTRACT OF THE CONTRA MERAL RETERDACE: DL DORADO COUNTY "STORM WATER MAMAGINENT PLAN", OCTOBER 2004.
ANAMEE OH-LIME AT: <u>HTTP://WWW.CO.DL-DORADO.CAUS//DJB//SOLDWASTE/STORM</u>HTML

CRITICAL AREA PLANTING CONSTRUCTION SPECIFICATIONS (JANUARY 2006)

A. SOOPE ESTABLESHIO VOETATON ON SEVERELY EROOMO AREAS OR AREAS WIN AM EROSION POTENTIAL ITS EMPANDE IN DISTABLE THE COLL MANUEL OR PREVENT DAMAGE ROOM SECRETION AND RANGET TO DOMESTICAL AREAS, PROTECT MELONE TANDAY, AND MEASTAR ASSERTE, COLUMBE.

ALL EROSON AND SEDMENT CONTROL PRACTICES PERFORMED AFTER OCTOBER 15. SHALL FOLLOW THANY SECURCATION CONTAINED IN THE STORM WATER MANAGEMENT PRACTICES. B. AREA TO BE SIZIND, THINK OF SIZINA COMPLETE REVOLVED AND SAMBLETS HE OF SIZINA BROTH-OF-INV, THE DE ACCOMPUSED WITH SPECIED AND HETS AND THESE OF YEAR TANK SPECIES MACH. AND TREATING MATERIAL. IZE LANDE WAS DECORATE AND THESE ACTIONS WITH A GO Z.

INDEE - ALL SIZO SHALL BE DELINEND TO THE SITE TAGGED AND LABOLED IN ACCORDANCE WITH CAUTOMIA AGRICULTURAL CODE AND SHALL BE ACCEPTABLE TO THE COUNTY AGRICULTURAL MESONGE.

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2 BERLIZZE - A COMMERCIAL FERTILIZER SHALL DE AMMONIUM PRIOSPHATE AND CONTAN A MINIMAN OF 188 MINICOLN, 200 FACISHURUX, AND DE PUTASH, UNHIQUEM IN COMPOSITION, DRY AND TREE FLORMING OF MINIMAN OF THE PRIMARY OF TH

4. Study – Shine shull, at the shine stored find and ext, next, only on basis, and at first of busin, and at the should be 3. MALEY - MALEY SIMLE BE ONE OF THE POLICIBING MATERIALS AS APPROVED BY THE GOVERNMENT REPRESENTATIVE. ALL FERTILIZER SHALL BE DELIVERED IN LABBOOKEN DE UNDESEED CONTANÇES, LABELED IN ACCOSONANCE WITH APPLICABLE STATE REGULATIONS AND BEARRY THE WARRANTY OF THE PRODUCED FOR THE GRACE FLIPMENED

8. MODE MBET MADE! — WOOD FRIEN MADE! S A WOOD COLLUDES FRIEN THAT COMMAND AND GROWNANDOW OF COMMINISH SHABING FACTORS, IT IS COLORDO WITH A 1984-TODE, MARTE SOLAIS, NO OFF, TO REPOWDE A PROPER CAUGE FRE METERS OFFER GROUPS SERVICES. IT HAS THE PROPERTY EVALUATIONS OF SUPERIORS OF SUPERIORS OFFER GROWNS SERVICES. TO SE

 GENETIAL - ALL SEIDING, TERTILIZIR AND MULCHING GIPERATIONS SHALL BEGIN WHEN APPROVAL GIVEN BY THE APPROPRIATE COUNTY ENGINEER OR CONSERVATION DISTRICT REPRESENTATIVE. SEEDING MECHINEDADIES

SELECTION DESIGNATION — APPINE MAKE THE SELECT SHALL RECEIVE THE PROPERTY AND COMPARTS THE SELECTION OF T

3. TERMINENS - FERRICER SHALL BE DETRIBUTED UNFERRICE ONR THE SECTION AT THE RATE OF SON DEADES FOR ACCE, AND SHALL BE HE SOOT PRIVADE ALONG THE SHADE WIFFORM APPICATION OF THE ACCE AND SHALL BE SALT IN UNFERRICE ACCE.

METIMED. THE SETTS MAY ME CHELLED, MOT TO EXCETE OME-MAJE (1/2) MICH DEEP AND CULTIFACHED OR ROLLED DHICE OWER METH A CORPOLANTO ROLLER DHI AREAS WHERE EDUPMENT CAN BE OPERATED SAFELY. SEED DIFFERITIONS WILL BE ACROSS THE SLOPPE. A. SETINGA - SETIN SHALL RE REGOLECAT BY HAND, MECHANICAL HAND SETINGA POTRATED OFFICIAL DE SECORE, HYBROSEDING OR ORDER PROPRIOTE COLOREDED, SECO SHALL HAND, A SOUL CONTEX OF HOT MARK THAN CHE-HALF MOD. SEEDING MALL BE CARREST OUT USING EITHER OF THE FOLLOWING METHODS.

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SECIAL NOTE: A MANIMUM 70% SEED GERMMATION WITH AT LEAST 1" GROWTH MUST OBTAINED BY DECEMBER 1ST, OR AREA MUST BE CONFIRD WITH STRAW MULCH. METHOD I WHOSE EMERGENCY "METHOUSE" OF DOVICED SOUS EXTENDS BETOM OCTOBER IS, EMERGENCY UNCOME WITH "SOU, STAMPLEATING METABLES" SECONDO PRINCESS. STAMPLEATING METABLES" SECONDO PRINCESS.

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TOPAR PUBESCENT WHEAT GRASS AND WHAMERA '67' RYE GRASS

# Notes-SITE CONSULTING, INC

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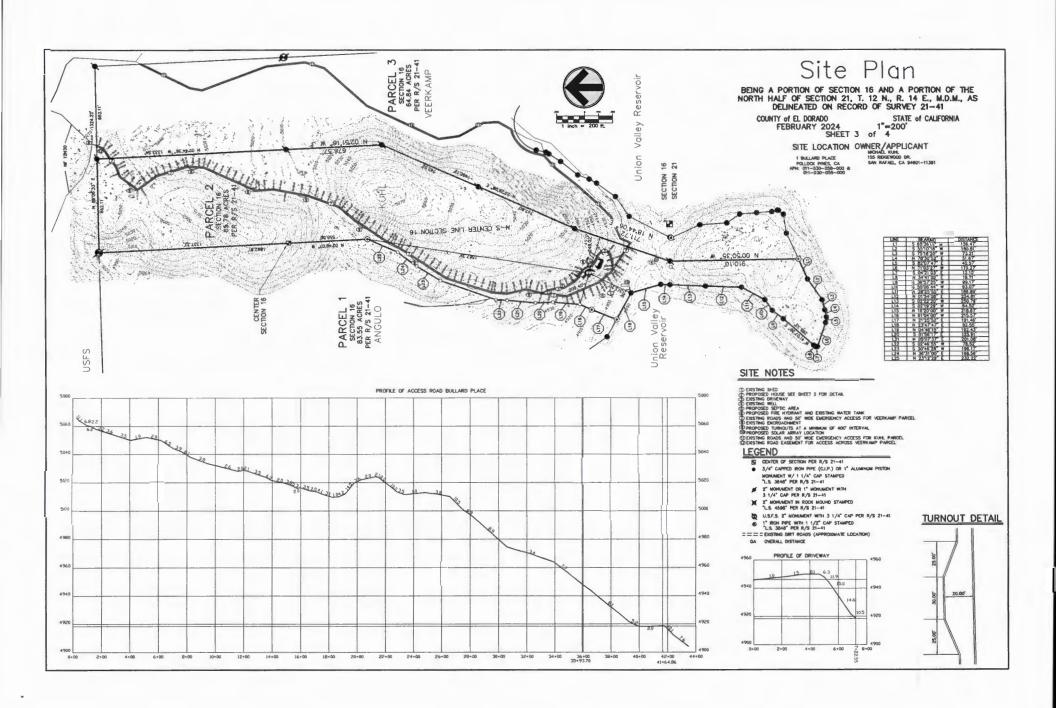


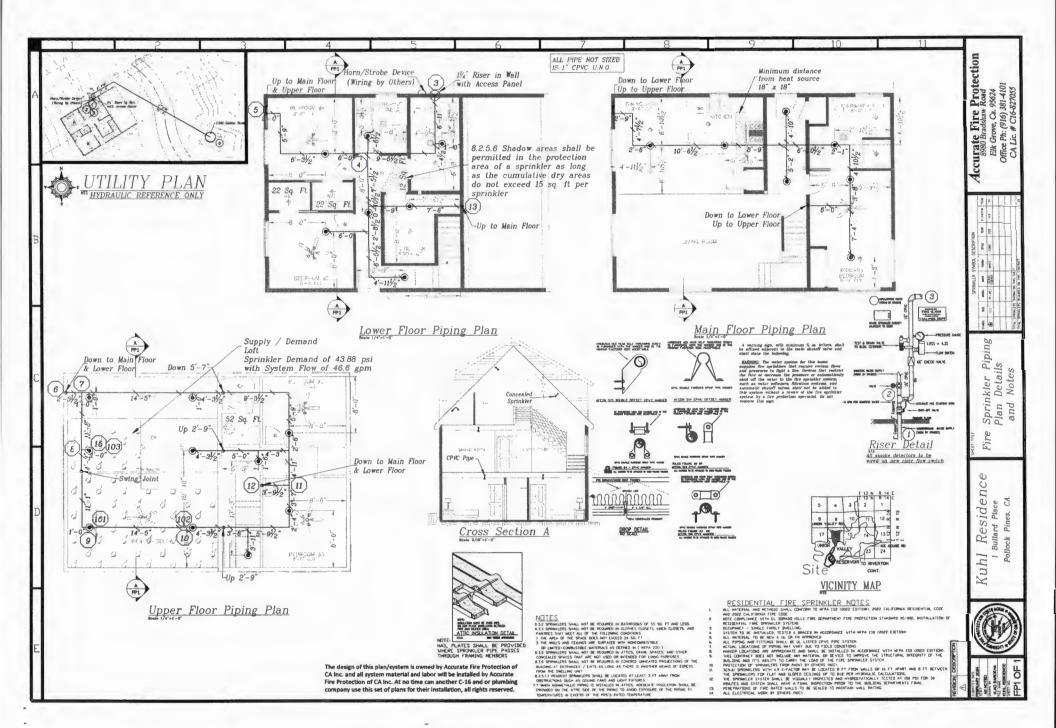




JAMES WILLSON, PE, PLS SITE CONSULTING, INC. 3460 ANCEL LANE PLACERVILLE, CA 95667

EROSION CONTROL GRADING NOTES





Phone 530 644-4838 Fax 530 644-4838

# Forest Management Plan for Angulo, Kuhl and Fox Property

The following is a forest management plan for a portion of Section 16 and a small portion of Section 21 T12N R14E MDM. The El Dorado county assessor's Parcel Numbers are 011-030-45 and 46. This 214.17 acre ownership is located on the west slope of the Sierra Nevada, approximately 24 air miles northeast of Placerville, CA. Topographic map coverage is provided by the Robbs Peak, Calif. 7.5' Quadrangle. The elevation of the property ranges from approximately 4,880 feet to 5,080 feet. Soils in the area are mostly Pilliken coarse sandy loam with areas of Aquepts and Umbrepts. Pilliken soils are deep and well drained, formed from material weathered from granitic rock. This soil is moderate to high site quality. This soil is used mainly for timber production and also for summer range. The Aquepts and Umbrepts are very poor to poorly drained soils that formed in alluvial material located on broad valley flats and along drainages and the periphery of these areas. The Sedge-Rush series typically occurs on these soils, along with willows, alders and other riparian vegetation. These areas are well suited for intensive use as summer range. The property is located in the Union Valley Reservoir Watershed, Calwater ID v2.2 #5514.340301. There are two main watercourses that are tributaries to Union Valley reservoir. These watercourses are unnamed on the Robbs Peak 7.5' Quadrangle Map. The watercourse flowing through the Angulo parcel is named Jack's Creek by the family since it flows through Jack's Meadow and the watercourse flowing through the Fox and Kuhl parcel called Timothy Creek since it flows through Timothy Meadow.

Ownership History: Rufus and Sarah Swift purchased the full ranch on 1/7/1941. That interest passed to their heirs in an 11/21/1994 grant deed. The Angulo Dynasty Trust received their interest on 12/27/1995. The Phyllis Swift Fox Family Revocable Trust received theirs on 6/13/1995. Michael Kuhl received a 1/3 interest on 12/28/1994, and a 2/3 interest on 2/22/2005.

Timberland Preserve Zone (TPZ) Chapter 17.44.070 (Prior Code 9432) requires a plan for forest management to include a discussion and recommendations on at least the following items:

# 1. Commercial harvesting, a history of past operations and recommendations for the future.

The property being discussed in this report and the surrounding property has a long history of timber harvesting as well as homesteading and ranching dating back to the 1800's. The majority of the land in the immediate vicinity of the subject property is currently managed for timber production by Sierra Pacific Industries and the U.S. Forest Service for multiple use as well as smaller parcels which have been harvested for timber under approved Timber Harvest Plans approved by the California Department of Forestry and Fire Protection. Land owned and managed for timber production by Sierra Pacific Industries was once owned and managed by

Michigan-California Lumber Company from the late 1800's to the mid 1990's. Michigan-Cal exercised their timber rights on subject property in 1958. Family members remember Rufus and Sarah Swift harvesting more timber, sometime during the 1960s, but remember no details. The most recent timber harvests were in 1994 on the Fox portion and extending through 1997 for the Kuhl and Angulo portion. The Fox portion was harvested under THP #4-94-56 and the Kuhl/Angulo portion under THP #4-94-107/ELD-45. There has been no harvesting since then. A salvage operation was considered in 2008, when the bottom dropped out of the log market. Of the 214 acres, approximately 47 acres are in meadow/grassland. The remaining land is mixed conifer, site class I and II, with White Fir the predominate species. Current growth is estimated to be 600 to 800 bd. ft./acre/yr. This could potentially be improved to 1,000 to 1,200 bd. ft./acre/yr following a series of growth improvement harvest and achieving fully stocked stands.

Recommendations: Until an economically feasible log market returns, it is recommended that the landowners work with a portable sawmill owner-operator to salvage dead and dying trees before they become unmerchantable and either a safety hazard or become large fuel material. The rough lumber can be marketed through the internet or classified ads.

When the market rebounds, a commercial timber harvest including removal of recently dead, dying and diseased trees should be done every 20 to 25 years on the property. It should also include a light selection harvest of green trees of all ages, sizes and species to create a multiple aged stand consisting of mixture of species which can maximize the growth potential on the property. The residual trees in the mixed conifer stand should be left at 15 to 25 foot spacing depending on the age and size. Older snags that do not pose a safety hazard to the landowners or the improvements should be left for wildlife purposes, as they provide habitat for birds and cavity nesting animals. Intermediate harvests to remove dead dying or diseased trees should be done as needed.

The elevation of the property is ideal for white firs which can be grown and sold for Christmas trees. Existing White Fir thickets can be thinned and pruned with Christmas tree sales in mind. Fast growing well spaced trees can be retained for future timber crop trees where managing for Christmas trees.

The meadow/grasslands should not be planted to trees as they provide habitat for a diversity of wildlife species and acts as a filter buffer for water runoff retaining a high level of water quality. Small conifer trees encroaching on the meadows/grassland areas can be removed by weed eating or hand pulling. Advanced regeneration can be cut and piled for wildlife habitat.

# 2. Provisions for legal and physical access to the property so commercial operations can be carried out.

Physical access to the property is east from Placerville on Highway 50 to Ice House road, a surfaced county/SMUD/USFS maintained road. Ice House Road is approximately 8.4 miles east of the Sly Park Road exit at Pollock Pines. The route continues northeast up Ice House Road approximately 19 miles to Union Valley Road, formerly known as Wolfe Creek Road. Union Valley Road is a co-op road between Sierra Pacific Industries and the U.S. Forest Service heading in a westerly direction that is surfaced for approximately 0.7 miles, then rock and native surface road for approximately 1.4 miles. The route continues on road 12N30 approximately 0.2 miles to the northeast corner of the Kuhl property or on an unnamed road approximately 0.3 miles to the northeast corner of the Fox property.

Commercial use of Union Valley Road and the short spur roads require a road use permit from the U.S. Forest Service. The application for the permit should be submitted to the Pacific Ranger District of the El Dorado National Forest for their review and recommendations before it is passed along to the El Dorado National Forest Supervisors Office.

# 3. A reasonable attempt to locate the boundaries of the property and attempts to protect his property against trespass.

Landowner Michael Kuhl and RPF have located all survey monuments required to run boundary lines. The most recent check of the survey monuments surrounding the property was done in the fall of 2008. The boundary lines of the property have been identified at one time or another for previous harvest operations, including interior lines separating the three proposed parcels. The portion of the property boarding U.S. Forest Service managed land has been blazed with the blaze marks painted red, excluding the 200 foot strip of U.S. Forest Service managed land between the high water mark for Union Valley Reservoir and subject property. The survey corners that delineate the 200 foot buffer strip for Union Valley Reservoir have been flagged and are generally close enough to be seen from one to the next. The landowners have attempted to hide these survey monuments to prevent vandalism from lake users.

The two access roads are gated with fences extending to the sides to reduce access to Off Road Vehicles. U.S. Forest Service padlocks are used in addition to private locks in case emergency access is required. There are fences on three portions of the property. The oldest is the fence along two points of the northern edge of the Fox parcel. Next is a fence along much of the western most edge of the Angulo parcel. And then there is the fence started this summer along the western edge of the Angulo and Kuhl boundary of the lower meadow.

Besides the gates and fences that block illegal access to the property by vehicles, frequent visits to the property by the landowners and selected guests attempt to protect the property against trespass.

Private Property and No Trespassing signs have been posted near the gates. It is recommended to provide more signage to inform the public that this is private property. The use of signs is allowed for under chapter 17.44.030 J and K.

### 4. Disease and insect control work.

The property was surveyed for possible insect or disease problems during the summers of 2008 and 2009. No serious outbreaks were observed but some mortality was observed mostly in the White fir component. Bark beetles have killed some trees in the stand. To minimize the potential for tree loss, diseased trees and the weakest trees should be removed during timber harvest operations, and adequate tree spacing will minimize the competition for light, water and nutrients. There is a small amount of dwarf mistletoe in some of the pines and firs on the property. It does not occur in large enough concentrations to cause major problems but should be removed from the stand to minimize its spread during commercial timber harvest operations. An attempt to harvest the mortality was made in 2008, but the cost of road maintenance and logging costs prevented harvesting because of the lack of markets for the logs. The use of a portable sawmill to process this material is being considered if a market can be found for the lumber.

## 5. Thinning, slash disposal, pruning and other appropriate silvicultural work.

Thinning: Periodic thinning of seedling and sapling size trees should be done to promote the most rapid growth on the healthiest trees. Larger trees will be thinned during the commercial harvest, and future thinning should be timed with commercial harvest in order to get an economical return on those trees large enough to be merchantable.

Slash disposal: In areas of recreational use by the landowners and guests and near roads, slash and forest debris can be unsightly, hazardous and be a fire hazard. Annual maintenance will prevent the buildup of forest debris in high use areas. Any future THPs should include provisions for slash treatment. Logging slash can be piled and burned or physically moved to areas away from high use areas and used for erosion control. Logging slash spread out on skid trails or other areas of exposed soil can reduce erosion by reducing raindrop impact on granitic soils and by catching sediment that may be transported across the soil surface.

<u>Pruning:</u> Pruning for log quality is not appropriate for this timber stand and with the current economy would not be justified. Pruning is appropriate in the high use areas and along roads to improve aesthesis and to create a break in forest fuels for fire hazard reduction.

# 6. A fire protection plan including a fuels management program.

<u>Purpose</u>: to reduce the potential of wildfires starting on the property and to slow the rate of spread in case of a wildfire.

To reduce the potential of a wildfire, the landowners shall comply with all California Department of Forestry and Fire Protection and U.S. Forest Service fire rules and regulations and implement a fuels management plan. A fuels management plan to reduce fuels will also assist fire suppression efforts by slowing the rate of spread of a wildfire. Establishing a fire reporting system will also assist local fire authorities by improving reaction time.

## **Forest fuels management:**

Ground fuels consist of natural limb pruning and needle cast, trees dying and falling over, logging slash and ground cover vegetation and brush. Ground fuels should be treated within 100 feet of roads and 150 feet of high use areas. Treatment could include removal, pile and burn or chip and scatter. During timber harvest operations, trees should be felled away from roads and high use areas. Logging slash should be removed from all areas within 100 feet of the edge of roads and 150 feet from high use areas and structures. This slash can be piled and burned or moved to areas away from the roads and high use areas. Treatment of logging slash should be discussed in harvest documents as part of hazard reduction.

Ladder fuels are smaller trees and lower dead and live limbs on larger trees which can provide a ladder for fire to climb from the ground to the crowns of trees. Ladder fuels can be reduced by limbing up the larger trees for 10 feet above the ground, but no more than 50% of the live crown for trees less than 20 feet in height. Small trees growing in the understory should be thinned so the spacing is such that the crowns do not touch and also leaving room for the residual tree crowns to grow without touching for a period of 5 to 10 years.

Crown fuels are the canopies of trees which can carry a fire in high winds and low moisture conditions. It usually occurs where there is a continuous layer of limbs and needles in interlocking tree crowns. Prevention of crown fires can be done by spacing out the larger trees so there is a minimum of 15 feet between crowns and removal of ladder fuels. The spacing of larger trees should be done by the RPF while marking harvest trees in preparation of a commercial logging operation.

<u>Fuel breaks are gaps in the forest fuels where a fire can be stopped. The dirt roads and high use areas within the property that have been treated for fuel reduction as discussed above and the wet meadows provide adequate fuel breaks for this property.</u>

Water sources for firefighting: The closest source for large trucks is a constructed water hole used for dust abatement during commercial harvesting operations. This water hole is located along Union Valley Road approximately 1.5 miles from the north side of the property. When Union Valley Reservoir is full, water trucks could draft from the reservoir in emergency situations. Union Valley Reservoir would also be the source of water for helicopter equipped with buckets. Water from the watercourse flowing along the eastern portion of the property has been diverted by a man made ditch to provide domestic water to all three parcels. This ditch feeds two 600 gallon water tanks on the Fox parcel and a 525 gallon water tank on the Kuhl parcel located near the high use areas. A 2,500 gallon water tank is planned to be functioning sometime during the summer of 2010 for the Kuhl parcel.

A water system has been developed at the high use areas and can be used for initial response to small fires. Fire reporting system: With the popularity of cell phones and the increase of coverage in remote areas, emergency phone numbers should be posted at the high use areas and on any structures. Guest visiting the property should be made aware of these numbers when first arriving.

Emergency vehicle access: U.S. Forest Service padlocks should remain on all gates providing access to the property. All roads within the property shall remain open and wide enough for fire trucks with occasional wide areas for turning around.

# 7. Erosion control on existing roads and skid trails and maintenance of existing roads.

<u>Union Valley Road and the short spur roads from Union Valley Road to the property are under</u> the control of the U.S. Forest Service.

The native surface roads within the property are located on flat or gentle slopes and had erosion control structures constructed following the most recent harvest. Landowners should conduct periodic inspections and maintain and repair any damage to the existing erosion control structures on the roads to insure proper drainage by cleaning out the throats of all water bars and drainage areas and make sure runoff is onto non erodible material or into native vegetation for filtration before entering a watercourse. Skid trails were water barred according to the Timber Harvest Plan specifications and Forest Practice Regulations following the last harvest and the trails have stabilized since then with native vegetation and forest litter.

Requirements for erosion control on skid trails and roads following future timber harvests will be specified in the harvest documents. Following the Forest Practice Regulations for any future timber harvest swill reduce to insignificant any impacts to soil or sediment movement.

Existing road crossings of watercourses have permanent culverts in place. These culverts have withstood 100+ year storm events. These culverts should be inspected and maintained to function properly each spring and fall and following any major storm event during the summer. If equipment is used on the property in projects not related to timber harvesting, they should not be operated within 25 feet of seasonal watercourses, within the wet meadow area or within 75 feet of the class I watercourses. Where watercourses are crossed by equipment, and there is a potential for soil to be washed into the watercourses, exposed soils should be protected from erosion by spreading clean straw or forest litter on the soil surface to a depth of two inches.

8. Planting of a significant portion of the under stocked areas of the land.

The under stocked portions of this property are meadows and grassland and should be managed to remain meadows and grassland.

The timbered portion of the property is adequately stocked with mixed conifers. Small opening created by natural events or by harvesting insect and disease trees will fill in by local seed fall. Logging operations usually expose soft soils which create good seed beds for natural regeneration.

### 9. Structures

There is currently one structure on the Kuhl parcel. Chapter 17.44.050 allows for one owner or caretaker occupied single-family detached dwelling or a mobile home on an approved foundation. It is recommended that out buildings be constructed on the three parcels for the storage of equipment necessary for the management of the property as well as fire fighting tools and equipment.

Maps:

Exhibit A: Ownership map with roads prepared by James Nicklos, April 1994 Timber Type Map prepared by James Nicklos, March 1991 Aerial Photograph, July 1986

Management plan prepared by:

Robert W. Allen, RPF #2108

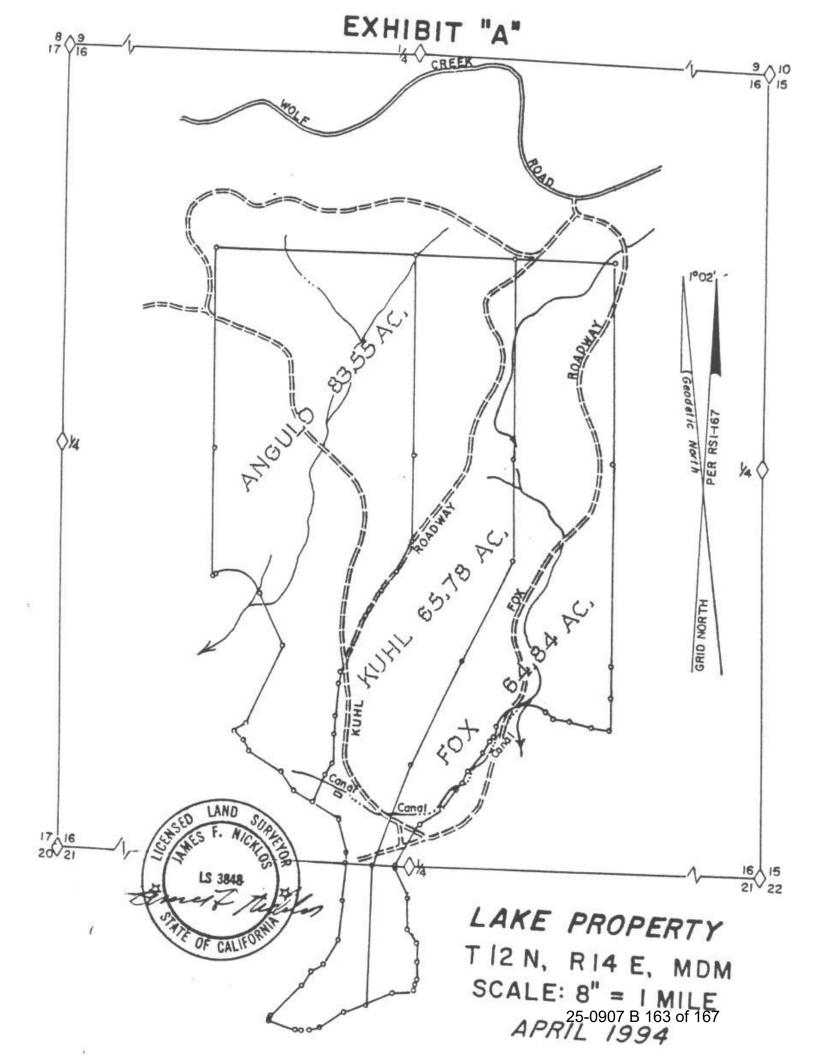
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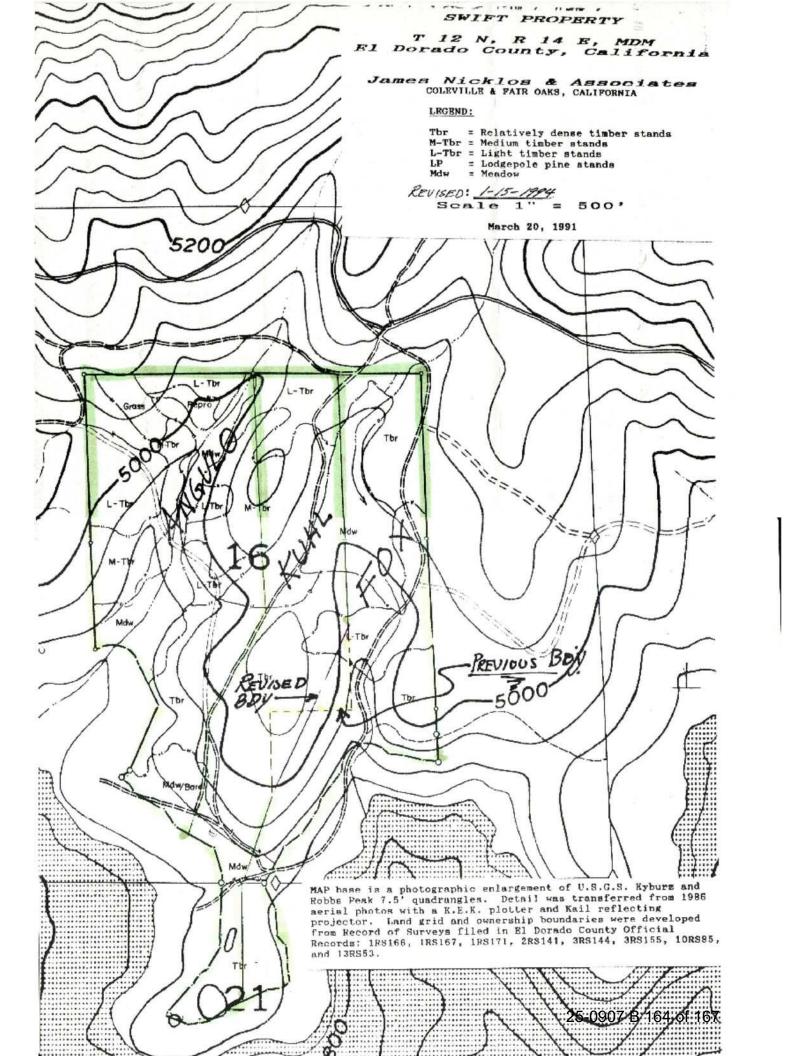
I have read and agree with the above Forest Management Plan

Penny Hocking

Wilchael J. Kulliv

**Tony Angulo** 







Sec. 130.40.350 - Timber Production Zone: Criteria, Regulations, and Zone Change Requirements.

- A. Content. This Section implements the provisions and intent of the Forest Taxation Reform Act of 1976 as amended.
- B. Applicability. Lands subject to the following criteria and regulations are or shall be zoned Timber Production Zone (TPZ).
- C. General Standards. In addition to the following regulations, lands within the TPZ shall be subject to the allowed uses and development standards under <u>Chapter 130.21</u> (Agricultural, Rural Lands, and Resources Zones) in <u>Article 2</u> (Zones, Allowed Uses, and Zoning Standards) of this Title.
- D. TPZ Rezone Application Requirements. In addition to the requirements set forth in <u>Chapter 130.63</u> (Amendments and Zone Changes) in <u>Article 6</u> (Zoning Ordinance Administration) of this Title, the following is required as part of any zone change to TPZ:
  - 1. Timber Production Assessment. Based on General Plan Policy 8.3.1.3, the Ag Commission shall assess property to determine its suitability for timber production. Their decision as to suitability shall be based, in part, on the following findings:
    - a. Property is identified as meeting Timber Site Classifications I, II, or III, as defined in the *California Forest Handbook* and the *Soil Survey of El Dorado Area* issued April 1974 by the USDA Soil Conservation Service and the U.S. Forest Service;
    - b. Property is being used for commercial forestry/timber production;
    - c. Property possesses topographical and other features that makes it suitable for timber production; and
    - d. No conflict exists with adjacent high density development.
  - 2. Forest Management Plan. A forest management plan for the property shall be submitted that has been prepared or approved by a Registered Professional Forester, as defined in <u>Article 8</u> (Glossary: see "Qualified Professional: Registered Professional Forester") of this Title. Prior to approval of the zone change application, the forest management plan shall be reviewed and approved by the Ag Commission. The forest management plan shall include, at a minimum, a discussion and recommendation on each of the following:
    - a. Commercial harvesting, a history of past operations, and recommendations for the future;
    - b. Provisions for legal and physical access to the property so commercial operations can be carried out;
    - c. A reasonable attempt to locate the boundaries of the property and attempts to protect the property against trespass;
    - d. Disease or insect control work;
    - e. Thinning slash disposal, pruning, and other appropriate silvicultural work;
    - f. A fire protection plan including a fuels management program;

- g. Erosion control on existing roads and skid trails along with maintenance of existing roads; and
- h. Planting of a significant portion of the understocked areas of the land.
- 3. The property shall currently meet the timber stocking standards as set forth in the California Public Resources Code Section 4561 and the forest practice rules adopted by the State Board of Forestry for the district in which the property is located. As an alternative, the owner shall sign an agreement with the Board to meet the timber stocking standards and forest practice rules by the fifth anniversary of the signing of said agreement. After the zone change to TPZ is approved, failure to meet the state's timber stocking standards and forest practice rules within the five year time period will provide the Board grounds for rescinding the zone change of the property.
- E. Continued Eligibility. The property owner shall continuously comply with at least six of the criteria in the forest management plan required under Subsection D.2 (Forest Management Plan) above in this Section, in order to continue to be eligible for the TPZ classification.
- F. Disclosure Notice of Rezone. Within 10 days of final action of a zone change application that either includes or deletes property from a TPZ, the Clerk of the Board shall cause to be recorded an instrument which will serve as constructive notice of the zone change action to prospective buyers of the subject property.
- G. Required Findings to Support Residential, Recreational and Other Non-Timber Uses. Certain uses within the TPZ may be compatible with growing and harvesting timber in certain circumstances, and may be allowed by Conditional Use Permit. When approving a Conditional Use Permit, as allowed in Table 130.21.020 (Agriculture, Rural Lands and Resource Zone Districts Use Matrix) in <a href="https://example.com/Article-2">Article 2</a> (Zones, Allowed Uses, and Zoning Standards) of this Title, for compatible, non-timber related uses, the review authority shall consider the recommendations of the Ag Commission and shall make the following findings:
  - 1. The proposed use is compatible with and will not detract from the land's ability to produce timber;
  - 2. Fire protection and public safety concerns have been adequately met, including the ability to provide adequate public access, emergency ingress and egress, and sufficient water supply and sewage disposal facilities;
  - 3. The proposed use will not adversely impact the area's watershed, wildlife, and other natural resources.