

SECTION V

ATTACHMENTS – SWAMPED THP

- Domestic Water Request Letter to the U.S. Forest Service
 - Domestic Public Use Notice
 - EHR Worksheets
 - Culvert Sizing Methodology
 - NDDDB Record for Swamp Creek Watershed
 - Botanical Scoping Report
-

Sierra Pacific Industries

Martell District - Forestry Division - P. O. Box 132 - Martell, CA 95654

Phone (209) 223-7170

Fax (209) 223-7175

Karl Graves
United States Forest Service
Calaveras Ranger District
PO Box 500
Hathaway Pines, CA 95233

Dear Karl,

I am working on the proposed SWAMPED Timber Harvest Plan that borders USFS land in the Swamp Creek planning Watershed (6532.600802) in Calaveras County. The attached map shows the location of the proposed harvest areas. The legal description of the project area is:

Sections	Township	Range	Base Meridian	County
14, 15, 16, 20, 21, 22, 23, 27, 28, 29, 32 & 33	6	15	MDB&M	Calaveras

As an adjacent landowner, we are required to contact you for information regarding the following:

- Surface domestic water use within 1,000 ft downstream from the proposed timber operations.
- Archeological resources in the area
- Wildlife resources in the area, which may need protection
- Other resources in the area, which you deem important.

If you know of any of these resources that may be affected by our proposed THP, please contact me at:

P. O. Box 132
Martell, CA 95654
Phone (209) 223-7170 ext. 226.

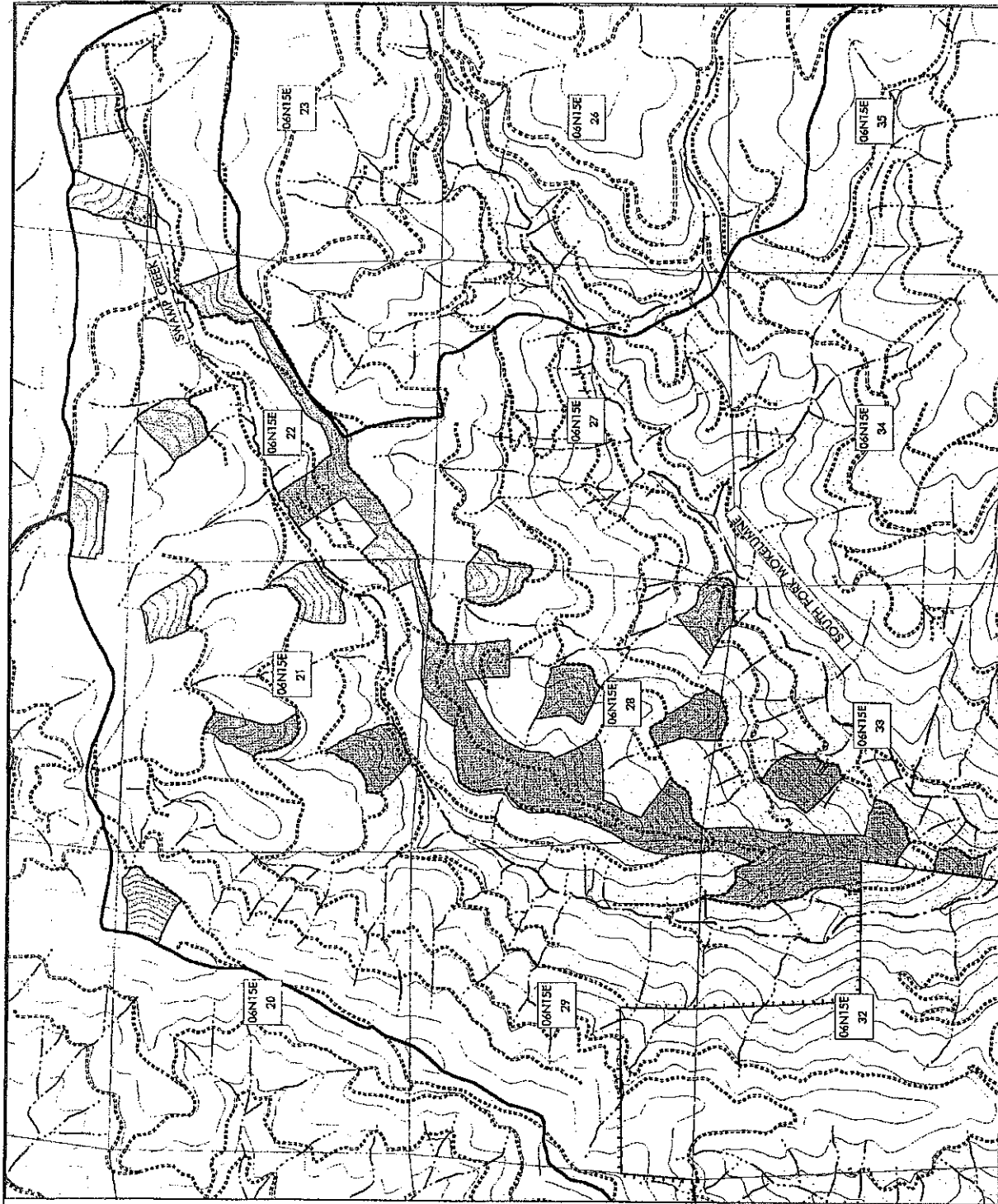
Sincerely,










Heather Engstrom RPF#2825

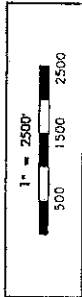
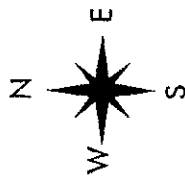
Attached: Swamped Proposed Project Area Map

1/8/2008



LEGEND

-  SPI OWNERSHIP
-  THP AREA
-  WATERSHED BOUNDARY
-  SEASONAL ROAD
-  CLASS I WATERCOURSE
-  CLASS II WATERCOURSE
-  CLASS III WATERCOURSE



GENERAL LOCATION MAP

SWAMPED THP

PORTION OF DORRINGTON 7.5' USGS QUADRANGLE

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**Proof of Publication of
Sierra Pacific Industries – Domestic Water**

**DOMESTIC WATER
SUPPLY NOTICE**
A Timber Harvest Plan is being prepared in portions of sections 14, 15, 16, 20, 21, 22, 23, 27, 28, 29, 32, 8, 33, MDB&M, Calaveras County. It is requested that the Plan Submitter, Sierra Pacific Industries, be advised within 10 days if any domestic water supply or known usage which exists within 1000 feet downstream of the Plan Boundary on the South Fork Mokelumne River. The Plan Submitter can be contacted at P.O. Box 132, Martell, CA 95654, Attention Heather Engstrom. Publish January 18, 2008CE

**Proof of Publication
(2015-5 C.C.P.)**

This space is for the County Clerk's Filing Stamp

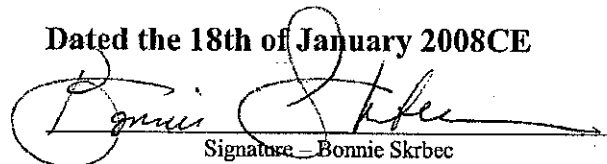
STATE OF CALIFORNIA,
County of Calaveras.

I am a citizen of the United States and a resident of the county aforesaid; I am over the age of eighteen years and not a party to or interested in the above matter. I am the principal clerk of the printer of the Calaveras Enterprise, a newspaper of general circulation, printed semi-weekly, in the City of San Andreas, California, County of Calaveras, and which newspaper has been adjudged a newspaper of general circulation by the Superior Court, of the County of Calaveras, State of California; that the notice of which the annexed is a printed copy (set in type not smaller than nonpareil), has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates; to-wit:

January 18, 2008

I certify (or declare) under penalty of perjury that the foregoing is true and correct.

Dated the 18th of January 2008CE


Signature – Bonnie Skrbec

**CALAVERAS
ENTERPRISE**

15 North Main Street
P.O. Box 1197, San Andreas, CA 95249-1197
(209) 754-3861 - FAX (209) 754-5135

PROOF OF PUBLICATION

**Estimated Surface Soil Erosion Hazard
Information from USDA USFS SCS Soil Survey of Stanislaus National Forest Area, California**

Soil Map Unit:		A	B	C	D	F	Ratings					
I. Soil Factors		Fine	Moderate	Coarse				A	B	C	D	F
A. Soil Texture	1. Detachability rating	Low	Moderate	High								
		1 to 9	10 to 18	19 to 30	18	23	23	23	17			
2. Permeability rating	B. Depth To Restrictive Layer or Bedrock	Slow	Moderate	Rapid								
		5 to 4	3 to 2	1	1	1	2	3	3			
rating	Shallow	Moderate	Deep									
		1" to 19"	20" to 39"	40" to 60"								
rating	15 to 9	8 to 4	3 to 1				8	2	2	2	2	
		C. Percent Surface Coarse Fragments Greater Than 2mm in Size including Rocks or Stones										
rating	Low	Moderate	High									
		1 to 39%	40 to 70%	71 to 100%								
rating	10 to 6	5 to 3	2 to 1				6	8	8	8	9	
		Subtotal =			33	34	35	36	31			

II. Slope Factor		5 to 15%	16 to 30%	31 to 40%	41 to 50%	51 to 70%	71 to 80%	A	B	C	D	F
slope rating	1 to 3	4 to 6	7 to 10				5	6	5	8	6	
		III. Protective Vegetative Cover Remaining After Disturbance										
rating	Low	Moderate	High									
		0 to 40%	41 to 80%	81 to 100%								
rating	15 to 8	7 to 4	3 to 1				10	10	10	10	10	
		IV. Two year, one Hour Rainfall Intensity (Hundredth inch)										
rating	Low	Moderate	High	Extreme								
		(-)30 to 39	40 to 59	60 to 69	70 to 80(+)							
rating	1 to 3	4 to 7	8 to 11	12 to 15				9	9	9	9	
		Erosion Hazard Rating										
rating	Low	Moderate	High	Extreme								
		<50	50 to 65	66 to 75	>75							
The Determination =							57	59	59	63	56	

Soil Types:
A: 103; Dystric Lithic Xerochrepts-rock outcrop-Josephine Family
B: 117; Gerle Family
C: 120; Gerle, deep-Wintoner Families complex
D: 121; Gerle, deep-Wintoner Families complex
F: 126; Holland Family

Unit #
 649
 276, 1989, FB
 265, 2139, 2229, 2866, 2942, 2946, 2957, FB
 281
 265, 672, 2062, 2147, 2199, 2232, FB

**Estimated Surface Soil Erosion Hazard
Information from USDA USFS SCS Soil Survey of Stanislaus National Forest Area, California**

Soil Map Unit: **G H I J K**

I. Soil Factors	Ratings				
	G	H	I	J	K
A. Soil Texture					
1. Detachability					
Fine					
Moderate					
Low					
10 to 18	17	16	21	17	17
19 to 30					
2. Permeability					
Slow					
Moderate					
Rapid					
5 to 4	3	3	3	2	2
3 to 2					
1					
B. Depth To Restrictive Layer or Bedrock					
Shallow					
Moderate					
20" to 39"					
40" to 60"					
1" to 19"					
8 to 4	2	4	4	3	4
15 to 9					
3 to 1					
C. Percent Surface Coarse Fragments Greater Than 2mm in Size including Rocks or Stones					
Low					
Moderate					
40 to 70%					
71 to 100%					
1 to 39%					
40 to 70%	9	9	9	9	8
5 to 3					
2 to 1					
High					
10 to 6	31	32	37	31	31
1 to 6					
7 to 10					
11 to 15					
16 to 25					
26 to 35					
31 to 40%					
41 to 50%					
51 to 70%					
71 to 80%					
81 to 100%					
High					
Low					
Moderate					
4 to 6					
7 to 10					
11 to 15					
16 to 25					
26 to 35					
31 to 40%					
41 to 50%					
51 to 70%					
71 to 80%					
81 to 100%					
High					
Low					
Moderate					
4 to 7					
8 to 11					
12 to 15					
Extreme					
70 to 80(+)					
60 to 69					
40 to 59					
30 to 39					
1 to 3	9	9	9	9	9
4 to 7					
8 to 11					
12 to 15					
Extreme					
70 to 80(+)					
60 to 69					
40 to 59					
30 to 39					
1 to 3					
4 to 7					
8 to 11					
12 to 15					
Extreme					
70 to 80(+)					
60 to 69					
40 to 59					
30 to 39					
1 to 3					
4 to 7					
8 to 11					
12 to 15					
Extreme					
70 to 80(+)					
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Extreme					
70 to 80(+)					
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12 to 15					
Extreme					
70 to 80(+)					
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70 to 80(+)					
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Extreme					
70 to 80(+)					
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Extreme					
70 to 80(+)					
60 to 69					
40 to 59					
30 to 39					
1 to 3					
4 to 7					
8 to 11					
12 to 15					
Extreme					
70 to 80(+)					
60 to 69					
40 to 59					
30 to 39					
1 to 3					
4 to 7					
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12 to 15					
Extreme					
70 to 80(+)					
60 to 69					
40 to 59					
30 to 39					
1 to 3					
4 to 7					
8 to 11					
12 to 15					
Extreme					
70 to 80(+)					
60 to 69					
40 to 59					
30 to 39					
1 to 3					
4 to 7					
8 to 11					
12 to 15					
Extreme					
70 to 80(+)					
60 to 69					
40 to 59					
30 to 39					
1 to 3					
4 to 7					
8 to 11					
12 to 15					
Extreme					
70 to 80(+)					
60 to 69					
40 to 59					
30 to 39					
1 to 3					
4 to 7					
8 to 11					
12 to 15					
Extreme					
70 to 80(+)					
60 to 69					
40 to 59					
30 to 39					
1 to 3					
4 to 7					
8 to 11					
12 to					

Estimated Surface Soil Erosion Hazard
Information from USDA USFS SCS Soil Survey of Stanislaus National Forest Area, California

Soil Map Unit:

	L M N O P				Ratings					
	Fine	Moderate	Coarse		L	M	N	O	P	
I. Soil Factors										
A. Soil Texture										
1. Detachability rating										
	Low	Moderate	High							
	1 to 9	10 to 18	19 to 30		17	17	23	27	20	
2. Permeability rating										
	Slow	Moderate	Rapid							
	5 to 4	3 to 2	1		3	2	2	2	2	
B. Depth To Restrictive Layer or Bedrock										
	Shallow	Moderate	Deep							
	1" to 19"	20" to 39"	40" to 60"							
	15 to 9	8 to 4	3 to 1		2	4	8	6	4	
C. Percent Surface Coarse Fragments Greater Than 2mm in Size including Rocks or Stones										
	Low	Moderate	High							
	1 to 39%	40 to 70%	71 to 100%							
	10 to 6	5 to 3	2 to 1		8	8	5	6	8	
					Subtotal =	30	31	38	41	34

Soil Type:

	L M N O P				Ratings					
	Low	Moderate	High	Extreme	L	M	N	O	P	
II. Slope Factor										
slope rating										
	5 to 15%	16 to 30%	31 to 40%	41 to 50%	51 to 70%	71 to 80%				
	1 to 3	4 to 6	7 to 10	11 to 15	16 to 25	26 to 35				
	10 to 3	10 to 6	7 to 10	11 to 15	16 to 25	26 to 35				
III. Protective Vegetative Cover Remaining After Disturbance										
rating										
	Low	Moderate	High							
	0 to 40%	41 to 80%	81 to 100%							
	15 to 8	7 to 4	3 to 1		10	10	10	10	10	
IV. Two year, one Hour Rainfall Intensity (Hundredth inch)										
rating										
	Low	Moderate	High	Extreme						
	(-)30 to 39	40 to 59	60 to 69	70 to 80(+)						
	1 to 3	4 to 7	8 to 11	12 to 15	9	9	9	9	9	
					The Determination =	54	60	62	70	59

Soil Types:

- L:** 156; Josephine-Sites families association
- M:** 160; Josephine family
- N:** 166; Lithic Cryumbrepts-rock outcrop-Windy fam 509, 2946, 2957
- O:** 172; Lithic Xerumbrepts-Holland family
- P:** 192; Wilder-Ovall families complex

Unit #

- 2239
- 649
- 672, 702, 2148, 2452, FB
- 2866

**Estimated Surface Soil Erosion Hazard
Information from USDA USFS SCS Soil Survey of Stanislaus National Forest Area, California**

Soil Map Unit: **Q R**

I. Soil Factors				Ratings			
A. Soil Texture	Fine	Moderate	Coarse	Q	R		
1. Detachability rating	Low 1 to 9	Moderate 10 to 18	High 19 to 30	23	23		
2. Permeability rating	Slow 5 to 4	Moderate 3 to 2	Rapid 1	2	2		
B. Depth To Restrictive Layer or Bedrock							
	Shallow 1" to 19"	Moderate 20" to 39"	Deep 40" to 60"				
rating	15 to 9	8 to 4	3 to 1	4	4		
C. Percent Surface Coarse Fragments Greater Than 2mm in Size Including Rocks or Stones							
	Low 1 to 39%	Moderate 40 to 70%	High 71 to 100%				
rating	10 to 6	5 to 3	2 to 1	5	5		
				Subtotal = 34 34			

II. Slope Factor				Ratings			
slope rating	5 to 15%	16 to 30%	31 to 40%	41 to 50%	51 to 70%	71 to 80%	Q R
rating	1 to 3	4 to 6	7 to 10	11 to 15	16 to 25	26 to 35	4 4
III. Protective Vegetative Cover Remaining After Disturbance							
	Low 0 to 40%	Moderate 41 to 80%	High 81 to 100%				Q R
rating	15 to 8	7 to 4	3 to 1			10	10
IV. Two year, one Hour Rainfall Intensity (Hundredth Inch)							
	Low (-)30 to 39	Moderate 40 to 59	High 60 to 69	Extreme 70 to 80(+)			
rating	1 to 3	4 to 7	8 to 11	12 to 15		9	9
Erosion Hazard Rating							
	Low <50	Moderate 50 to 65	High 66 to 75	Extreme >75			
				The Determination = 57 57			
				M M			

Soil Types:

Q: 193; Windy family
R: 195; Windy family

Unit #

276, 277, 2139, 2199, 2814, 2946, 2957, FB
2942, FB

Determination of 100-Year Flood Flow

Location: SWAMPED THP

(Enter data in fields with red-colored headings. Other data fields will be calculated automatically.)

Magnitude and Frequency Method for 100-year flood flow

No.	Crossing	Basin			Area (mi ²) A	Precipitation (in/yr) P	Elevation (ft/1000) H	100-yr flood flow Q ₁₀₀ (cfs)			
		Area (acres) A	Maximum elevation (ft) H	Crossing elevation (ft) H				North Coast ⁽¹⁾ (NC)	Sierra ⁽²⁾ (S)	North-east ⁽³⁾ (NE)	Central Coast ⁽⁴⁾ (CC)
1	7	124	4840	3820	0.194	48	4.33	94.6	122.5	47.5	74.0
2	8	36	5080	4560	0.056	48	4.82	32.3	45.1	22.9	24.1
3	9	57	4920	4540	0.089	48	4.73	48.1	64.8	30.0	36.3
4	0				0.000	0	0	0.0	#DIV/0!	0.0	#DIV/0!
5	0				0.000	0	0	0.0	#DIV/0!	0.0	#DIV/0!
6	0				0.000	0	0	0.0	#DIV/0!	0.0	#DIV/0!
7	0				0.000	0	0	0.0	#DIV/0!	0.0	#DIV/0!
8	0				0.000	0	0	0.0	#DIV/0!	0.0	#DIV/0!
9	0				0.000	0	0	0.0	#DIV/0!	0.0	#DIV/0!
10	0				0.000	0	0	0.0	#DIV/0!	0.0	#DIV/0!

18.4
52.1
62.4

See below for M&F equations

Rational Method for 100-year flood flow

No.	Crossing	Channel			Concentration time (min) T _c	Runoff coefficient C	Precipitation (in/hr) I	Area (acres) A	100-yr flood flow (cfs) Q ₁₀₀
		length (to top of basin) (mi) L	Elevation difference (ft) H	Concentration time (min) T _c					
1	7	0.83	1020	9	0.3	2.2	124	81.8	
2	8	0.37	520	4	0.3	2.2	36	23.8	
3	9	0.42	380	6	0.3	2.2	57	37.6	
4	0		0	#DIV/0!			0	0.0	
5	0		0	#DIV/0!			0	0.0	
6	0		0	#DIV/0!			0	0.0	
7	0		0	#DIV/0!			0	0.0	
8	0		0	#DIV/0!			0	0.0	
9	0		0	#DIV/0!			0	0.0	
10	0		0	#DIV/0!			0	0.0	

$T_c = 60((11.9 \times L^3)/H)^{0.385}$

Magnitude & Frequency Q₁₀₀ equations
 NC (1) Q₁₀₀ = 9.23 (A)^{0.87} (P)^{0.87}
 S (2) Q₁₀₀ = 15.7 (A)^{1.11} (P)^{1.12} (H)^{-0.453}
 NE (3) Q₁₀₀ = 125 (A)^{0.55}
 CC (4) Q₁₀₀ = 19.7 (A)^{0.84} (P)^{0.84} (H)^{-0.33}

Template prepared by:
 Michael Wopat
 California Geological Survey
 Redding, CA 96002
 June 14, 2001

SWAMPED THP CULVERT CALCULATIONS

3 x Bank-full Method

W1 = width watercourse above culvert ≈ in feet

W2 = width watercourse below culvert ≈ in feet

D = depth at culvert ≈ in feet

Bfa = (W1 + W2) ÷ 2 X D

$r^2 = 3 \text{ Bfa} \div \pi$

d = r x 2 = diameter of culvert

Project 7 - Failed 24" Culvert Class II (Watercourse 3U):

Bfa = W1 + W2 ÷ 2 x D

Where: W1 = 4.0 feet & W2 = 4.5 feet & D = 1.1 feet

Therefore: [(4.0)+(4.5) ÷ 2] x 0.5 = 3.3 Bfa

$r^2 = 3 \text{ Bfa} \div \pi = 3 \times 3.3 \div \pi = 3.151$

$r^2 = 3.151 \text{ sq. feet}$

$r = \sqrt{(3.151 \text{ sq. feet})} = 1.775$

d = 2r = 2 X 1.775 = 3.55 feet ≥ 42.6 inches

#7 = 48 inch Culvert

Project 9 - Failed 12" Culvert Class II:

Bfa = W1 + W2 ÷ 2 x D

Where: W1 = 3.0 feet & W2 = 2.0 feet & D = 0.8 feet

Therefore: [(3.0)+(2.0) ÷ 2] x 0.8 = 2.0 Bfa

$r^2 = 3 \text{ Bfa} \div \pi = 3 \times 2 \div \pi = 1.91$











$r^2 = 1.91 \text{ sq. feet}$

$r = \sqrt{(1.91 \text{ sq. feet})} = 1.38$

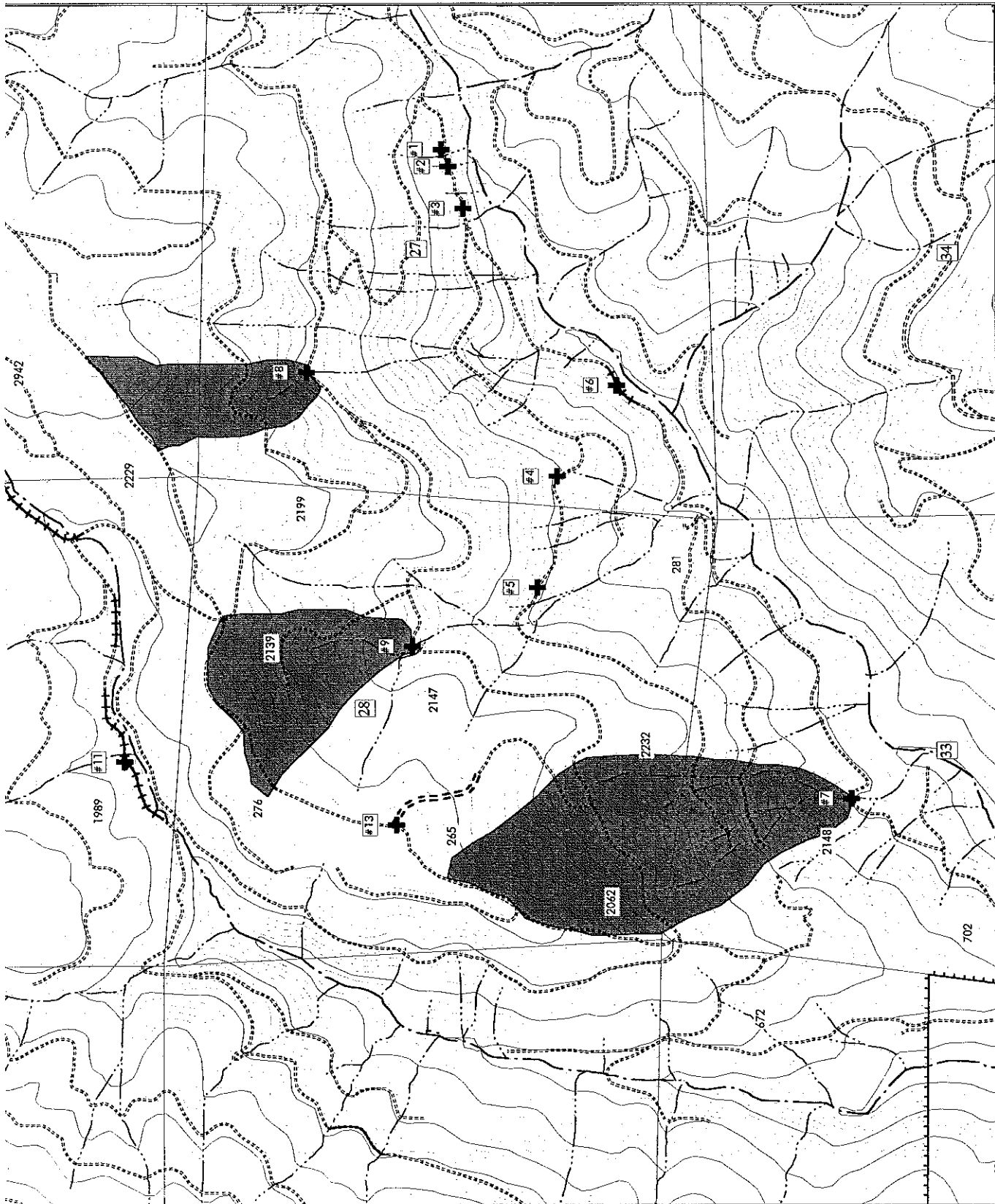
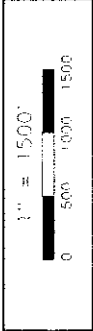
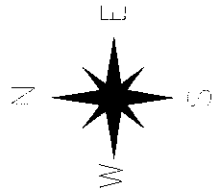
d = 2r = 2 X 1.38 = 2.76 feet ≥ 33.2 inches

9 = 36 inch Culvert

LEGEND

-  SPI OWNERSHIP
-  PROJECT DRAINAGE AREA
-  SEASONAL ROAD
-  PROPOSED SEASONAL ROAD
-  PROPOSED TEMPORARY ROAD
-  WLPZ ROAD SEGMENT
-  CLASS I WATERCOURSE
-  CLASS II WATERCOURSE
-  CLASS III WATERCOURSE
-  PROPOSED PROJECT

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**PROJECTS # 7, 8 & 9
SWAMPED THP**

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Sierra Pacific Industries

Planning Watersheds Wildlife Report

Print Date: 7/17/2008
 DFG CNDDDB Release Date: 3/20/2008
 SPI PWWild Release Date: 4/10/2008
 SPI PWWild Version: 0408

Martell District THP Report:

Page 1 of 3

1. Watershed Summary

1a. Watershed Area Summary

CPW ID	Name	Hydro. Unit	Total Acres	SPI%	Public%
6532.600802	* Swamp Creek	MIDDLE SIERRA	12422	75.44%	19.17%

* denotes watersheds for which detailed sighting reports are provided.
 SPI and Public fractions may be approximate due to recent ownership changes.

1b. Anadromous Fish/Erosion Summary

Anadromous Fish Concerns			
CPW ID	*SPI Miles	Fish Presence	Erosion Potential
6532.600802	0		

* Miles of stream on SPI land potentially available for anadromous fish.

1c. DFG NDDDB Rarefind Species and Sighting Summary

CPW ID	Animals						Plants							
	Mammals	Birds	Fish	Amphibians	Reptiles	Amphipods	Insects	Snails	Dicots	Monocots	Trees	Ferns	Moss	Lichens
6532.600802	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table entries are: No. of Species/No. of Sightings

1d. SPI Foresters and Staff Rarefind Species and Sighting Summary

CPW ID	Goshawks	CA Owls	Northern Owls	Other Vertebrates	All Plants
6532.600802	--/	6/29	-	-	2/3

Goshawk table entries are: # Nest Sites / # Sightings
 Owl Table entries are: # Activity Centers / # Sightings
 All other table entries are: # Species / # Sightings

2. DGF NDDDB Rarefind Wildlife and Plant Sightings

2a. Animal Sightings

2b. Plant Sightings

3. SPI Foresters and Staff Wildlife Sightings

3a. Goshawk Sightings

(Note: Map ID and Lon/Lat are provided for the primary reference location for a territory)

3b. Northern Spotted Owl Sightings

3c. California Spotted Owl Sightings

CPW ID	Territory	Year	DFG ID	BirdStatus	TRS_40	SPI Map ID
<i>(Note: Map ID's are shown for the latest primary activity centers only)</i>						
6532.600802	Little Mokelumne	1992		resident single	05N15E07_SWNE	Not Mapped
6532.600802	Little Mokelumne	1994		resident single	05N15E07_SWNE	Not Mapped
6532.600802	Little Mokelumne	1995		reproductive pair	05N15E07_SWNE	OC105828
6532.600802	Little Mokelumne	1998		unknown	05N15E07_NENE	Not Mapped
6532.600802	Little Mokelumne	2003		unknown	05N15E07_NESE	Not Mapped
6532.600802	Little Mokelumne	2004		unknown	05N15E07_	Not Mapped
6532.600802	Martell Creek	1992	CA058	reproductive pair	06N15E33_NWSE	Not Mapped
6532.600802	Martell Creek	1993	CA058	pair	06N15E33_NWSE	Not Mapped
6532.600802	Martell Creek	1994	CA058	reproductive pair	06N15E33_NWSE	OC105758
6532.600802	Martell Creek	1995	CA058	resident single	06N15E33_NWSE	Not Mapped
6532.600802	Martell Creek	2001	CA058	unknown	06N15E33_NWSE	Not Mapped
6532.600802	Martell Creek	2003	CA058	unknown	06N15E33_C	Not Mapped
6532.600802	Swamp Creek I	1992	CA050	reproductive pair	06N15E29_NESE	Not Mapped
6532.600802	Swamp Creek I	1993	CA050	pair	06N15E29_NESE	Not Mapped
6532.600802	Swamp Creek I	1994	CA050	reproductive pair	06N15E29_NESE	OC105754
6532.600802	Swamp Creek I	1995	CA050	resident single	06N15E29_NESE	Not Mapped
6532.600802	Swamp Creek I	1998	CA050	reproductive pair	06N15E29_NESE	Not Mapped
6532.600802	Swamp Creek I	1999	CA050	pair	06N15E20_NESE	Not Mapped
6532.600802	Swamp Creek I	1999	CA050	pair	06N15E29_NESE	Not Mapped
6532.600802	Swamp Creek I	2006	CA050	ABSENT	05N15E29_	Not Mapped
6532.600802	Swamp Creek II	1998	CA047	reproductive pair	06N15E32_SWNE	OC1052165
6532.600802	Switchbacks	1992	CA061	reproductive pair	05N15E04_SWNW	Not Mapped
6532.600802	Switchbacks	1993	CA061	reproductive pair	05N15E04_SWNW	Not Mapped
6532.600802	Switchbacks	2003	CA061	pair	05N15E04_SWNW	Not Mapped
6532.600802	Switchbacks	2004	CA061	reproductive pair	06N15E33_SESW	OC1051750
6532.600802	Switchbacks	2004	CA061	pair	06N15E33_SESW	Not Mapped

6532.600802	Switchbacks	2004	CA061	unknown	05N15E04_	Not Mapped
6532.600802	Switchbacks	2004	CA061	pair	05N15E04_NWNW	Not Mapped
6532.600802	Upper Martell Creek	2003		pair	05N15E03_NENW	OC1051687

3d. Other Wildlife Sightings

4. SPI Foresters and Staff Rarefind Plant Sightings

WaterShed:	6532.600802	Field Date	03/18/04	SPI Map#	SP627
Sci. Name:	Lilium humboldtii ssp humboldtii	Reporter:	Tim Tate	Longitude	-120.378150
Common	HUMBOLDT LILY	Email:	ttate@spi-ind.com	Latitude	38.300610
Description:	Sierran Mixed Conifer with Douglas-fir, Ponderosa pine, Sugar pine, and Incense cedar the dominant tree species. Occurrences were found on moderate (20-35%) north and west-facing slopes near drainages. Soils were of the Windy/Cohasset complex series with a substrate of andesitic tuff.				
WaterShed:	6532.600802	Field Date	08/12/05	SPI Map#	SP661
Sci. Name:	Calochortus clavatus var avius	Reporter:	Kevin Roberts	Longitude	-120.316830
Common	PLEASANT VALLEY MARIPOSA LILY	Email:	kroberts@spi-ind.com	Latitude	38.321330
Description:	Mixed conifer forest. Ponderosa pine, incense cedar and black oak with bear clover as ground cover. Rocky soils. SW aspect relatively flat(less than 20% slope).				
WaterShed:	6532.600802	Field Date	08/12/05	SPI Map#	SP662
Sci. Name:	Calochortus clavatus var avius	Reporter:	Kevin Roberts	Longitude	-120.322980
Common	PLEASANT VALLEY MARIPOSA LILY	Email:	kroberts@spi-ind.com	Latitude	38.315700
Description:	Mixed conifer forest. Ponderosa pine, incense cedar and black oak with bear clover as ground cover. Rocky soils. SW 30% slope.				

Botany Scoping Report

DFG Release Date: 3/20/2008
 SPI Release Date: 4/10/2008
 PWWild Version: 0408

Preliminary THP Plant List

THP Name: Swamped SPI Forester: Heather Engstrom
 District: Martell Date: 07/15/08

Brief Description: The Swamp THP is located entirely within the Swamp Creek Watershed, 6532.600802. The proposed plan is located in sections 14, 15, 20, 21, 22, 23, 27, 28, 29, 32 and 33 of T6N R15E MDBM. The area ranges in elevations from just over 6000' on Blue Mountain to approximately 3000' on the South Fork Mokelumne River, although the plan area ranged from 3500-5920'. This watershed contains the entire systems of Swamp, Martell and Lightning Creeks as well as the Little Mokelumne River and approximately 5 miles of the South Fork Mokelumne River. A wide variety of conditions exist from typical mixed conifer stands to small areas of rock outcrops. Slopes are varied from gentle slopes on the ridges to very steep along the streams. The silvicultural systems to be employed shall be clearcuts with a fuelbreak down the center ridge. All silviculture shall be tractor-based logged. The soils present are mainly Gerle-Wintoner families complex, Holland family, Josephine family and Windy family with small inclusions of Wilder-Ovall, Dystric Lithic Xerochrepts, Lithic Xerombrepts and Lithic Cryumbrepts.

Search Results: Habitat and Geographic Range Assessment

The following list contains federally-listed threatened, endangered, sensitive, or rare plants or plant species of special concern to the public identified by Department of Fish and Game reviewers or the SPI Wildlife and Botany Program. These plants may potentially occur within the Watershed Assessment Area, Biological Assessment Area, of SPI district. On the basis of habitat requirements and known geographic ranges, the species below are either excluded from further consideration or included for field assessment in the THP.

Species	Habitat Description	NDDB Or SPI Group	Exclude from further consideration	Justification
<i>Allium tribracteatum</i>	Exclusively found on volcanic substrate, this species grows on lava caps, volcanic ridges, generally in barren sites (without woody plants) and sometimes on slopes flanking such sites, from 4000 to 10,000 ft. Distribution: limited to Calaveras and Tuolumne Cos. Identification period: Mar-Jun.	Target 1B.2	No	
<i>Calochortus clavatus var avius</i>	This species grows in openings in oak/pine forest, on canyon slopes, spurs, and ridges with southerly aspects, on rocky soils with surface rock/cobbles apparent (2800 to 5600'). It is known to grow in dense bear clover (<i>Chamaebatia foliolosa</i>). Canopy cover at known sites is usually under 50%; species presence is negatively correlated with high tree density. Distribution is limited to Amador, Calaveras and El Dorado Cos.	Target 1B.2	No	

Species	Habitat Description	NDDB Or SPI Group	Exclude from further consideration	Justification
<i>Chlorogalum grandiflorum</i>	This species exhibits a bimodal habitat selection. In the central Sierra Nevada this bulb grows on serpentine (Red Hills, Tuolumne County) or gabbro (El Dorado County) in chaparral, but is not restricted to these soils. In the northern Sierra Nevada it grows on metamorphic, volcanic, and rarely sedimentary substrata. Habitat includes foothill oak - gray pine woodlands, chaparral, and ponderosa pine - canyon live oak - whiteleaf manzanita associations. Elevations range from 800 to 3900 feet. Records are known from Tuolumne, Calaveras, Amador, El Dorado, and Placer Counties.	Target 1B.2	No	
<i>Horkelia parryi</i>	Habitat preferred by this species are openings in chaparral and interior live oak (<i>Quercus wislizeni</i> , <i>Q. chrysolepis</i>), especially on lone formation; to 3500'. It is generally found on poorly vegetated, somewhat sterile or acidic rocky soils on ridges, as well as on road cuts. It is often found growing with knobcone pine, <i>Ceanothus tomentosus</i> , Mariposa manzanita, yerba santa, and annual grasses. Its distribution is limited to the northern and central Sierra Nevada foothills (Amador, Calaveras, El Dorado, and Mariposa Cos.), especially the Lone Formation.	Target 1B.2	Yes	Suitable acidic or highly infertile soil habitat is not present within the THP area. THP is outside the known elevational range.
<i>Lomatium stebbinsii</i>	Occurrences limited to non-forested andesite or mud-flow breccia ridges and upper slopes ("lava cap" sites). Plants of this spring flowering bulb complete flowering and seed is dispersed within about 60 days following snowmelt, often before June 15th. This species grows in thin, gravelly volcanic clay soil (soil depth less than 10 inches), on lava caps, volcanic ridges and slopes, sometimes mixed in with low grasses (4000-6000'), but generally in sites of barren woody vegetation; it is usually associated with <i>Allium tribracteatum</i> . Distribution is limited to Amador, Calaveras, and Tuolumne Cos.	Target 1B.1	No	

Species	Habitat Description	NDDDB Or SPI Group	Exclude from further consideration	Justification
<i>Mimulus pulchellus</i>	This species prefers the drying edges of vernal wet depressions (meadows, seeps) that are well saturated in spring, on disturbed volcanic and granitic soil in yellow pine forests (2000 to 6600 ft). Distribution is limited to Calaveras, Mariposa, and Tuolumne Cos.	Target 1B.2	No	
<i>Piperia colemanii</i>	<p><i>Piperia colemanii</i> (PICO8) occurs between 3700 to 8100 ft in elevation. Of 72 reported sites, the mean elevation is 5651 feet, and the only two sites below 4000 ft are at the far northern end of the geographic range. The known geographic range is from Yosemite National Park in the south, northerly for ca. 250 miles into Modoc Co. SPI surveys in 2005-2007 documented PICO8 presence in the American and Mokelumne River watersheds documenting new occurrences in El Dorado Co.</p> <p>PICO8 occurs in conifer forests where white fir is a dominant or codominant, on a variety of slope steepness and exposures. Canopy cover at known sites is intermediate to moderate, but PICO8 is documented in sites where canopy cover was as little as 10%. In sites with higher canopy cover, it can grow where duff accumulation is evident, but some sites are also on well drained granitic sand with little duff. The canopy characteristics of PICO8 occurrences suggest it is shade tolerant. Reported associated species include shrubs at many sites, with <i>Ceanothus cordulatus</i> the most frequent associate. At many sites documented by SPI in 2007, PICO8 plants grow where recent selection harvest was evident, and several occurrences were located on or near skid trails or roads.</p>	Target 4.3	No	

Species	Habitat Description	NDDB Or SPI Group	Exclude from further consideration	Justification
<i>Pseudostellaria sierrae</i>	Forms colonies that are acres in size in duff or mineral soil; canopy gap openings in dense forest or throughout the understory of moderately dense mixed-conifer forest (<i>Pseudotsuga menziesii</i> , <i>Abies concolor</i> , <i>Calocedrus decurrens</i> , <i>Pinus ponderosa</i> at one site, total canopy ca. 40%); colonies located in sites with moderate (ca. 10%) cover of native perennial herbs, with little shrub cover (<i>Rosa gymnocarpa</i> , <i>Rubus parviflorus</i> at one site); matted form recently found in clear cut plantation at the sugar pine/red fir transition zone on Tahoe Dist.; ranging from the Tuolumne-Merced river divide at 7000 ft in the south, to as low as 4300 ft in Plumas County; known from Plumas, Placer, Nevada, Tuolumne Cos. Mean elevation of known sites is 5300 ft.	Target 3.2	No	
<i>Ceanothus fresnensis</i>	Dry rocky ridges of volcanic, metamorphic or other non-granitic rocks, often with Jeffrey Pine and without dense conifer forest, at 2700-6600 ft on the western slope of the Sierra Nevada.	Watch 4.3	No	
<i>Clarkia virgata</i>	Grows in natural openings and disturbed sites. Typically found in mixed-conifer forest with a black oak component. An outcrosser, the anthers mature earlier than the stigma. Often found with common <i>C. rhomboidea</i> , but flowers 2-3 weeks later. Elevation range: 1300-4900 ft. Twain Harte north to Hwy 50.	Watch 4.3	No	
<i>Cypripedium fasciculatum</i>	Mixed conifer or oak forests, usually in cool, shady stands; may be on general forest soils or occasionally on ultramafic soils; often on steep slopes. Often but not always along streams. Occasionally on roadcuts.	Watch 4.2	No	
<i>Cypripedium montanum</i>	Diverse habitats: Typically in moist areas near azaleas or dogwoods; also on dry slopes under oaks, firs and madrones; sometimes in marshy areas under alders, firs and cedars with corn lilies.	Watch 4.2	No	
<i>Lilium humboldtii</i> ssp <i>humboldtii</i>	Yellow pine forest, cismontane woodland, lower montane coniferous forest/openings	Watch 4.2	No	

Species	Habitat Description	NDDB Or SPI Group	Exclude from further consideration	Justification
<i>Mimulus inconspicuus</i>	Near hillside streams or seeps in partial shade; a foothill plant where the pine belt begins; El Dorado to Tuolumne Cos. 600 - 2500 ft.	Watch 4.3	No	
<i>Mimulus laciniatus</i>	Seeps on massive, unvegetated granitic outcrops, often growing in wet moss or about the spray of cascades of snowmelt streams; Butte, Tuolumne to Tulare Cos.; 1500-8700 ft.	Watch 4.3	Yes	Seeps on massive, unvegetated granitic outcrops and appropriate wet sites, including cascades of snowmelt streams, do not exist within the THP boundary. Suitable habitat is not present in the THP area.
<i>Monardella candicans</i>	Sandy or gravelly soil in chaparral, foothill woodland, or yellow pine forest; Placer to Kern Cos.; 0-2500 ft.	Watch 4.3	Yes	The project area is located above the elevational range of this species. Suitable habitat is not present.
<i>Perideridia bacigalupi</i>	Generally limited to clay-rich soils on ridges in chaparral or woodland, or serpentine sites, 1500 to 3000 ft on the western slope of the Sierra Nevada, flowering in mid-summer. Amador, Butte, Calaveras, Madera(?), Mariposa, Nevada, Tuolumne, Yuba Cos.	Watch 4.2	Yes	Suitable habitat is not present on this THP area.
<i>Sphenopholis obtusata</i>	Wet meadows, stream banks, ponds.	Watch 2.2	No	
<i>Stellaria longifolia</i>	Habitat: mountain bogs in the Sierra Nevada and Cascade Range; 2800 to 5000 ft. Documented from three sites in Calif: Goose Valley (Shasta Co) where it last seen in 1900, near Jonesville (Butte Co) where it was documented in 1978, and Love Ck (Calaveras Co) seen in 1940. It is widely distributed in the Rocky Mountains. It is very similar to <i>S. longipes</i> , a common meadow plant in the Sierra Nevada.	Watch 2.2	Yes	Suitable habitat, mountain bogs, are not present on this THP area.

Botany Scoping Report

DFG Release Date: 3/20/2008
SPI Release Date: 4/10/2008
PWWild Version: 0408

Preliminary THP Survey and Plant Protection Recommendations

THP Name: Swamped SPI Forester: Heather Engstrom
District: Martell Date: 07/15/08

Pre-Field Scoping Assessment: Potentially Impacted Plant Species

As a result of pre-field habitat screening, the following plant species have been identified as having potential habitat and presence within the THP area. Survey recommendations and proposed plant protection measures are summarized below.

Species	NDDB Or SPI Group	Survey Recommendations	Plant Protection Summary
<i>Allium tribracteatum</i>	Target 1B.2	Surveys for this plant species will be conducted during the appropriate floristic window.	An Equipment Exclusion Zone (EEZ) shall be established around the perimeter of the occurrence. Within the EEZ trees shall be directionally felled and yarded away from plants. Trees harvested outside the EEZ shall be directionally felled and yarded away from the EEZ boundary to the greatest extent possible. If there are low numbers of individuals within an occurrence or operations may adversely affect substantial numbers of individual plants, the forester shall use discretion in establishing the EEZ to extend beyond the perimeter of the occurrence. Alternatively, a zone shall be established around the perimeter of the occurrence in which harvesting shall be limited to occur before plant sprouting, after seed set, or after plant senescence for the year. Protection measures shall not be required if the plants exist solely within a road or landing proposed for use. In this case, the RPF will survey adjacent areas in an attempt to locate additional plants.

Species	NDDB Or SPI Group	Survey Recommendations	Plant Protection Summary
<i>Calochortus clavatus var avius</i>	Target 1B.2	Surveys for this plant species will be conducted during the appropriate floristic window.	An Equipment Exclusion Zone (EEZ) shall be established around the perimeter of the occurrence. Within the EEZ trees shall be directionally felled and yarded away from plants. Trees harvested outside the EEZ shall be directionally felled and yarded away from the EEZ boundary to the greatest extent possible. If there are low numbers of individuals within an occurrence or operations may adversely affect substantial numbers of individual plants, the forester shall use discretion in establishing the EEZ to extend beyond the perimeter of the occurrence. Alternatively, a zone shall be established around the perimeter of the occurrence in which harvesting shall be limited to occur before plant sprouting, after seed set, or after plant senescence for the year. Protection measures shall not be required if the plants exist solely within a road or landing proposed for use. In this case, the RPF will survey adjacent areas in an attempt to locate additional plants.

Species	NDDB Or SPI Group	Survey Recommendations	Plant Protection Summary
<i>Chlorogalum grandiflorum</i>	Target 1B.2	Surveys for this plant species will be conducted during the appropriate floristic window.	An Equipment Exclusion Zone (EEZ) shall be established around the perimeter of the occurrence. Within the EEZ trees shall be directionally felled and yarded away from plants. Trees harvested outside the EEZ shall be directionally felled and yarded away from the EEZ boundary to the greatest extent possible. If there are low numbers of individuals within an occurrence or operations may adversely affect substantial numbers of individual plants, the forester shall use discretion in establishing the EEZ to extend beyond the perimeter of the occurrence. Alternatively, a zone shall be established around the perimeter of the occurrence in which harvesting shall be limited to occur before plant sprouting, after seed set, or after plant senescence for the year. Protection measures shall not be required if the plants exist solely within a road or landing proposed for use. In this case, the RPF will survey adjacent areas in an attempt to locate additional plants.

Species	NDDB Or SPI Group	Survey Recommendations	Plant Protection Summary
<i>Lomatium stebbinsii</i>	Target 1B.1	Surveys for this plant species will be conducted during the appropriate floristic window.	An Equipment Exclusion Zone (EEZ) shall be established around the perimeter of the occurrence. Within the EEZ trees shall be directionally felled and yarded away from plants. Trees harvested outside the EEZ shall be directionally felled and yarded away from the EEZ boundary to the greatest extent possible. If there are low numbers of individuals within an occurrence or operations may adversely affect substantial numbers of individual plants, the forester shall use discretion in establishing the EEZ to extend beyond the perimeter of the occurrence. Alternatively, a zone shall be established around the perimeter of the occurrence in which harvesting shall be limited to occur before plant sprouting, after seed set, or after plant senescence for the year. Protection measures shall not be required if the plants exist solely within a road or landing proposed for use. In this case, the RPF will survey adjacent areas in an attempt to locate additional plants.

Species	NDDDB Or SPI Group	Survey Recommendations	Plant Protection Summary
<i>Mimulus pulchellus</i>	Target 1B.2	Surveys for this plant species will be conducted during the appropriate floristic window.	An Equipment Exclusion Zone (EEZ) shall be established around the perimeter of the occurrence. Within the EEZ trees shall be directionally felled and yarded away from plants. Trees harvested outside the EEZ shall be directionally felled and yarded away from the EEZ boundary to the greatest extent possible. If there are low numbers of individuals within an occurrence or operations may adversely affect substantial numbers of individual plants, the forester shall use discretion in establishing the EEZ to extend beyond the perimeter of the occurrence. Alternatively, a zone shall be established around the perimeter of the occurrence in which harvesting shall be limited to occur before plant sprouting, after seed set, or after plant senescence for the year. Protection measures shall not be required if the plants exist solely within a road or landing proposed for use. In this case, the RPF will survey adjacent areas in an attempt to locate additional plants.

Species	NDDB Or SPI Group	Survey Recommendations	Plant Protection Summary
<i>Piperia colemanii</i>	Target 4.3	Surveys for this plant species will be conducted during the appropriate floristic window.	An Equipment Exclusion Zone (EEZ) shall be established around the perimeter of the occurrence. Within the EEZ trees shall be directionally felled and yarded away from plants. Trees harvested outside the EEZ shall be directionally felled and yarded away from the EEZ boundary to the greatest extent possible. If there are low numbers of individuals within an occurrence or operations may adversely affect substantial numbers of individual plants, the forester shall use discretion in establishing the EEZ to extend beyond the perimeter of the occurrence. Alternatively, a zone shall be established around the perimeter of the occurrence in which harvesting shall be limited to occur before plant sprouting, after seed set, or after plant senescence for the year. Protection measures shall not be required if the plants exist solely within a road or landing proposed for use. In this case, the RPF will survey adjacent areas in an attempt to locate additional plants.

Species	NDDB Or SPI Group	Survey Recommendations	Plant Protection Summary
<i>Pseudostellaria sierrae</i>	Target 3.2	Surveys for this plant species will be conducted during the appropriate floristic window.	An Equipment Exclusion Zone (EEZ) shall be established around the perimeter of the occurrence. Within the EEZ trees shall be directionally felled and yarded away from plants. Trees harvested outside the EEZ shall be directionally felled and yarded away from the EEZ boundary to the greatest extent possible. If there are low numbers of individuals within an occurrence or operations may adversely affect substantial numbers of individual plants, the forester shall use discretion in establishing the EEZ to extend beyond the perimeter of the occurrence. Alternatively, a zone shall be established around the perimeter of the occurrence in which harvesting shall be limited to occur before plant sprouting, after seed set, or after plant senescence for the year. Protection measures shall not be required if the plants exist solely within a road or landing proposed for use. In this case, the RPF will survey adjacent areas in an attempt to locate additional plants.
<i>Ceanothus fresnensis</i>	Watch 4.3	This species does not qualify for CEQA protection since it is neither threatened nor endangered. Occurrences will not be targeted for survey, but will be inventoried if encountered as part of other botanical survey activities.	The number of plants and occurrences does not justify survey or additional protection measures.
<i>Clarkia virgata</i>	Watch 4.3	This species does not qualify for CEQA protection since it is neither threatened nor endangered. Occurrences will not be targeted for survey, but will be inventoried if encountered as part of other botanical survey activities.	Operations will be conducted to leave a portion of any occurrence in an undisturbed state by flagging an Equipment Exclusion Zone (EEZ).
<i>Cypripedium fasciculatum</i>	Watch 4.2	This species does not qualify for CEQA protection since it is neither threatened nor endangered. Occurrences will not be targeted for survey, but will be inventoried if encountered as part of other botanical survey activities.	Operations will be conducted to leave a portion of any occurrence in an undisturbed state by flagging an Equipment Exclusion Zone (EEZ).

Species	NDDB Or SPI Group	Survey Recommendations	Plant Protection Summary
<i>Cyrtopodium montanum</i>	Watch 4.2	This species does not qualify for CEQA protection since it is neither threatened nor endangered. Occurrences will not be targeted for survey, but will be inventoried if encountered as part of other botanical survey activities.	Operations will be conducted to leave a portion of any occurrence in an undisturbed state by flagging an Equipment Exclusion Zone (EEZ).
<i>Lilium humboldtii</i> ssp <i>humboldtii</i>	Watch 4.2	This species does not qualify for CEQA protection since it is neither threatened nor endangered. Occurrences will not be targeted for survey, but will be inventoried if encountered as part of other botanical survey activities.	Operations will be conducted to leave a portion of any occurrence in an undisturbed state by flagging an Equipment Exclusion Zone (EEZ).
<i>Mimulus inconspicuus</i>	Watch 4.3	This species does not qualify for CEQA protection since it is neither threatened nor endangered. Occurrences will not be targeted for survey, but will be inventoried if encountered as part of other botanical survey activities.	Operations will be conducted to leave a portion of any occurrence in an undisturbed state by flagging an Equipment Exclusion Zone (EEZ).
<i>Sphenopholis obtusata</i>	Watch 2.2	This SPI Watch List species will be documented if observed in conjunction with a Survey species.	Operations will be conducted to leave a portion of any occurrence in an undisturbed state by flagging an Equipment Exclusion Zone (EEZ).

SECTION VI

CONFIDENTIAL DOCUMENTS – SQUIGGLY THP

Archaeological Addendum

4-08-20/CAL-4

ATTENTION

I. THE FOLLOWING ADDENDUM(S), AND INFORMATION IS REQUIRED BY LAW TO BE KEPT CONFIDENTIAL AND IS NOT FOR PUBLIC VIEWING:

ARCHEOLOGY:
(GOV. CODE 6254.10) & 14 CCR 969.1(a) (2))

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OPTION "A" TRADE SECRETS:
(GOV. CODE 6254.7(a))

PAGE _____ THROUGH PAGE _____

NTMP – TRADE SECRETS:
(GOV. CODE 6254.7(a))

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