

PART OF PLAN

Steam Donkey Timber Harvest Plan

Section V

- Erosion Hazard Rating Worksheets
- Soils Map
- Erosion Control Plan and Maps
- Landowner Responsibilities Letter
- Domestic Water Letter- Neighbors
- Domestic Water Notice-Independent Coast Observer
- Gualala Redwood Timber- Watershed Landslide Inventory Report
- Gualala Redwood Timber-2017 Sewer Treatment Road Action Plan
- Published Landslide Mapping (pages from CGS PHI Report for THP 1-23-00099SON)
- Gualala Redwood Timber- Watershed Stream Monitoring Information and Completed Road Work Information
- Northern Spotted Owl Information
- Botanical Survey Report

- A) NoD - Noyo coarse sandy loam, 0 to 15 percent slopes
- B) JoG - Josephine loam, 50 to 75 percent slopes
- C) HhF - Hugo loam, 30 to 50 percent slopes (Gentle slopes)

FACTOR RATING

I. SOIL FACTORS

A. SOIL TEXTURE				BY AREA		
				A	B	C
	Fine	Medium	Coarse	NoD	JoG	HhF
1. DETACHABILITY	Low	Moderate	High			
Rating	1-9	10-18	19-30	23	15	15
2. PERMEABILITY	Slow	Moderate	Rapid			
Rating	5-4	3-2	1	3	4	3

B. DEPTH TO RESTRICTIVE LAYER OR BEDROCK

	Shallow	Moderate	Deep			
	1"-19"	20"-39"	40"-60" (+)			
Rating	15-9	8-4	3-1	1	4	3

C. PERCENT SURFACE COARSE FRAGMENTS GREATER THAN 2 MM IN SIZE, INCLUDING ROCKS OR STONES

	Low	Moderate	High			
	(-) 10-39%	40-70%	71-100%			
Rating	10-6	5-3	2-1	10	7	10

SUBTOTAL>

II. SLOPE FACTOR

Slope	5-15%	16-30%	31-40%	41-50%	51-70%	71-80% (+)			
Rating	1-3	4-6	7-10	11-15	16-25	26-35	2	11	13

III. PROTECTIVE VEGETATIVE COVER REMAINING AFTER DISTURBANCE

	Low	Moderate	High			
	0-40%	41-80%	81-100%			
Rating	15-8	7-4	3-1	5	6	6

IV. TWO-YEAR, ONE-HOUR RAINFALL INTENSITY (Hundredths Inch)

	Low	Moderate	High	Extreme			
	(-) 30-39	40-59	60-69	70-80			
Rating	1-3	4-7	8-11	12-15	14	14	14

TOTAL SUM OF FACTORS				58	61	64
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EROSION HAZARD RATING

<50	50-65	66-75	>75			
LOW (L)	MODERATE (M)	HIGH (H)	EXTREME (E)	M	M	M

- D) MmF - Mendocino sandy clay loam, 30 to 50 percent slopes
- E) CaF - Caspar sandy loam, 30 to 50 percent slopes
- F) HeF - Hely silt loam, 30 to 50 percent slopes

FACTOR RATING
 BY AREA

I. SOIL FACTORS

A. SOIL TEXTURE	Fine	Medium	Coarse	MmF	CaF	HeF
	1. DETACHABILITY	Low	Moderate	High		
Rating	1-9	10-19	19-30	16	18	9
2. PERMEABILITY	Slow	Moderate	Rapid			
Rating	5-4	3-2	1	4	2	3

B. DEPTH TO RESTRICTIVE LAYER OR BEDROCK

	Shallow	Moderate	Deep			
		1"-19"	20"-39"	40"-60" (+)		
Rating	15-9	8-4	3-1	3	1	4

C. PERCENT SURFACE COARSE FRAGMENTS GREATER THAN 2 MM IN SIZE,
 INCLUDING ROCKS OR STONES

	Low	Moderate	High			
		(-) 10-39%	40-70%	71-100%		
Rating	10-6	5-3	2-1	10	10	10

SUBTOTAL>

II. SLOPE FACTOR

Slope	5-15%	16-30%	31-40%	41-50%	51-70%	71-80% (+)			
Rating	1-3	4-6	7-10	11-15	16-25	26-35	11	5	14

III. PROTECTIVE VEGETATIVE COVER REMAINING AFTER DISTURBANCE

	Low	Moderate	High			
		0-40%	41-80%	81-100%		
Rating	15-8	7-4	3-1	5	5	6

IV. TWO-YEAR, ONE-HOUR RAINFALL INTENSITY (Hundredths Inch)

	Low	Moderate	High	Extreme			
		(-) 30-39	40-59	60-69	70-80		
Rating	1-3	4-7	8-11	12-15	14	14	14

TOTAL SUM OF FACTORS				63	55	60
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EROSION HAZARD RATING

<50	50-65	66-75	>75			
LOW (L)	MODERATE (M)	HIGH (H)	EXTREME (E)	M	M	M

- G) EmF - Empire loam, 30 to 50 percent slopes
- H) RrD - Rohnerville loam, 9 to 15 percent slopes
- I) CaE - Caspar sandy loam, 15 to 30 percent slopes

I. SOIL FACTORS FACTOR RATING
BY AREA

A. SOIL TEXTURE	Fine	Medium	Coarse	FACTOR RATING BY AREA		
				G	H	I
1. DETACHABILITY	Low	Moderate	High			
Rating	1-9	10-18	19-30	15	15	18
2. PERMEABILITY	Slow	Moderate	Rapid			
Rating	5-4	3-2	1	4	5	2

B. DEPTH TO RESTRICTIVE LAYER OR BEDROCK

Rating	Shallow	Moderate	Deep	2	1	2
	1"-19"	20"-39"	40"-60" (+)			
	15-9	8-4	3-1			

C. PERCENT SURFACE COARSE FRAGMENTS GREATER THAN 2 MM IN SIZE, INCLUDING ROCKS OR STONES

Rating	Low	Moderate	High	10	10	10
	(-) 10-39%	40-70%	71-100%			
	10-6	5-3	2-1			

SUBTOTAL >

II. SLOPE FACTOR

Slope	5-15%	16-30%	31-40%	41-50%	51-70%	71-80% (+)	10	5	7
Rating	1-3	4-6	7-10	11-15	16-25	26-35			

III. PROTECTIVE VEGETATIVE COVER REMAINING AFTER DISTURBANCE

Rating	Low	Moderate	High	6	6	5
	0-40%	41-80%	81-100%			
	15-8	7-4	3-1			

IV. TWO-YEAR, ONE-HOUR RAINFALL INTENSITY (Hundredths Inch)

Rating	Low	Moderate	High	Extreme	14	14	14
	(-) 30-39	40-59	60-69	70-80			
	1-3	4-7	8-11	12-15			

TOTAL SUM OF FACTORS				61	56	58
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EROSION HAZARD RATING

<50	50-65	66-75	>75	M	M	M
LOW (L)	MODERATE (M)	HIGH (H)	EXTREME (E)			

J) KnD - Kneeland loam, 9 to 15 percent slopes

K) HhF- Hugo loam, 30 to 50 percent slopes (Steep Slopes, area greater than 20 acres)

FACTOR RATING
 BY AREA

I. SOIL FACTORS

A. SOIL TEXTURE	Fine	Medium	Coarse	KnD	HhF	
	1. DETACHABILITY	Low	Moderate	High		
Rating	1-9	10-18	19-30	26	15	
2. PERMEABILITY	Slow	Moderate	Rapid			
Rating	5-4	3-2	1	5	3	

B. DEPTH TO RESTRICTIVE LAYER OR BEDROCK

Rating	Shallow	Moderate	Deep			
	1"-19"	20"-39"	40"-60" (+)			
	15-9	8-4	3-1	5	3	

C. PERCENT SURFACE COARSE FRAGMENTS GREATER THAN 2 MM IN SIZE, INCLUDING ROCKS OR STONES

Rating	Low	Moderate	High			
	(-) 10-39%	40-70%	71-100%			
	10-6	5-3	2-1	10	10	

SUBTOTAL>

II. SLOPE FACTOR

Slope	5-15%	16-30%	31-40%	41-50%	51-70%	71-80% (-)			
Rating	1-3	4-6	7-10	11-15	16-25	26-35	4	20	

III. PROTECTIVE VEGETATIVE COVER REMAINING AFTER DISTURBANCE

Rating	Low	Moderate	High			
	0-40%	41-80%	81-100%			
	15-8	7-4	3-1	6	6	

IV. TWO-YEAR, ONE-HOUR RAINFALL INTENSITY (Hundredths Inch)

Rating	Low	Moderate	High	Extreme			
	(-) 30-39	40-59	60-69	70-80			
	1-3	4-7	8-11	12-15	14	14	

TOTAL SUM OF FACTORS				64	71	
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EROSION HAZARD RATING

<50	50-65	66-75	>75			
LOW (L)	MODERATE (M)	HIGH (H)	EXTREME (E)	M	H	

PART OF PLAN



German Landgrant, MDB&M
Gualala, McGuire Ridge, Stewarts Point,
and Stewarts Point OE W 7.5' USGS Quadrangles
Sonoma County
40' Contours

Steam Donkey THP
Soils Map

Scale: 1:23,000

NCRM

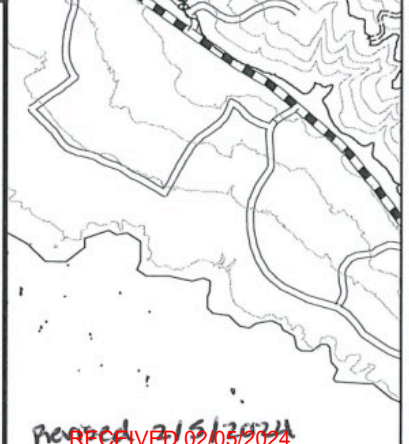
Property Line
 THP Boundary

Class I Watercourse
 Class II Large (ASP) Watercourse
 Class II Standard (ASP) Watercourse
 Class II Watercourse
 Class III Watercourse

Highway 1
 Existing Permanent Road
 Existing Seasonal Road
 Existing Temporary Road

Soils
 Caspar sandy loam, 15 to 30 percent slopes
 Caspar sandy loam, 30 to 50 percent slopes
 Empire loam, 30 to 50 percent slopes
 Hely silt loam, 30 to 50 percent slopes
 Hugo loam, 30 to 50 percent slopes
 Mendocino sandy clay loam, 30 to 50 percent slopes
 Josephine loam, 50 to 75 percent slopes
 Noyo coarse sandy loam, 0 to 15 percent slopes
 Kneeland loam, 9 to 15 percent slopes
 Rohnerville loam, 9 to 15 percent slopes

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RECEIVED 02/05/2024
COAST AREA OFFICE
RESOURCE MANAGEMENT

Erosion Control Plan

Steam Donkey Timber Harvest Plan

On June 23, 2004 the North Coast Regional Water Quality Control Board adopted General Waste Discharge Requirements for timber harvest activities on non-federal land (Order #R1-2004-0030). These requirements require technical reports to be developed as a basis for corrective actions undertaken to control sediment, fuel, and other potential waste discharge sources within the project area. These reports include an Erosion Control Plan (this document), a Fuel Management Plan, and an Inspection Plan. The Fuel Management Plan applies to tanks over 1,320 gallons. No such tanks shall be used for this project; therefore, a Fuel Management Plan has not been prepared. The Inspection Plan is found at the end of this Erosion Control Plan.

RPF who prepared the Erosion Control Plan: Madeline Green, RPF #3069.

Date Erosion Control Plan prepared: August 18, 2023

The Erosion Control Plan must identify all controllable sediment discharge sources in the project area, including those roads used for timber harvest activities owned by or under the control of the landowner. "Controllable sediment discharge sources" are defined as sites or locations, both existing and those created by proposed timber harvest activities, within the project area that meet all of the following conditions:

1. Is discharging or has the potential to discharge sediment to waters of the state in violation of applicable water quality requirements or other provisions of the General Waste Discharge Requirements (WDRs),
2. Was caused or affected by human activity, and
3. May feasibly and reasonably respond to prevention and minimization management measures.

Between April 2023 and August 2023, field inspections of the project area, including those roads used for timber harvest activities owned by or under the control of the landowner, were inspected for sites defined as controllable sediment discharge sources. All watercourses and harvest units were walked during the course of the preparation of the THP. Several unstable areas were found near watercourses but will not be discussed here because they do not meet #2 and #3 of the definition for controllable sediment discharge sources. A map is attached showing the project area, roads owned or controlled by the landowner and controllable sediment discharge sources.

The following table describes the controllable sediment discharge sources observed with a discussion of management measures for prevention or minimization of sediment. Map points below refer to points discussed in the THP. Estimated controllable volume was calculated by estimating the width, depth, and length of the site in feet. The potential for sediment delivery is defined as "high" if 66-100% of the volume of the site has potential to access a watercourse, "moderate" if 33-65% of the volume of the site has potential to access a watercourse, and "low" if 1-32% of the volume of the site has potential to access a watercourse.

Road Point Table on Next Page.

PART OF PLAN

Map Point	Controllable Sediment Discharge Site (CSDS), Description, Watercourse Class	Potential Sediment Discharge (cy), Priority*	CDFW 1600	Description and Recommendations
		Hydro Calc.	Geo Report	

1	CSDS Class II-L Watercourse Q100= 81.2 cfs	Moderate, 20 yds	Yes	A Class II-L watercourse and northern bank seep cross an existing permanent road via a double-culverted crossing. Both culverts are 36" steel pipes. The northern culvert is set ~6" lower than the southern one, is spaced 2' from the southern culvert, and is the main culvert passing flows under the road. This culvert is completely rusted through, and water is running under the pipe. The channel bottom has a rocky and hard substrate both up and down stream of the crossing. The southern culvert passes water during high flows and is functional/ not rusted through. <ul style="list-style-type: none"> Remove both culverts and install a 73"x 55" size pipe-arch culvert (with a non-beveled inlet) to watercourse grade. Install a critical dip downgrade of the crossing. Rock armor the fill slope where the inside ditch outlets into the culvert inlet area with 10" D₅₀ rock. Exposed soil shall be stabilized as per Item 18 Soil Stabilization Measures.
		Yes	No	
2	CSDS Bank seep inside ditch; Draining to Class II-S Watercourse	Low, 1 yd	Yes	An inside ditch draining a bank seep leads to the inlet of a functional Class II-S watercourse crossing (30" culvert) located on an existing permanent road. The ditch is shallow for ~75' upgrade of the crossing and is saturating the road, due to road rocking maintenance. At the culvert outlet, there is an unstable feature that was identified as a point on a map for THP 1-15-042SON; This road and this crossing was addressed in the 2017 Action Plan: Gualala Redwood Timber LLC (GRT) and Gualala Community Services District (GCSD): Storm Proofing the Sewer Treatment Plant Access Road (included in Section V), in which the culvert was carefully replaced and set in a specific manner due to the slide at the outlet as well as the utilities for the sewer treatment plant buried directly under the culvert inlet. The road was also insloped and intended to drain to the inside ditches in order to keep flows off of the slide. Therefore, the improvement of the inside ditch at this location is imperative in protecting this site. <ul style="list-style-type: none"> From the 3 orange flags (75' upgrade of crossing), to the culvert inlet, improve the ditch line by excavating the ditch approximately 2' wide and 1-2' deep. Operations at this road point shall be solely confined to the inboard edge of the road, and operations proposed shall improve road drainage and saturation of the road prism above the unstable feature. It is not expected to have any negative impact on the feature and should prevent water from flowing onto the feature from the road's edge.
		No	No	
7	CSDS Class II Watercourse (Non-ASP) Q100= 18.6 cfs	20 yds, Moderate	Yes	A Class II watercourse crosses an existing seasonal road via a 36" CMP. The inlet is ½ blocked with sediment, boulders and debris, and water is partially flowing underneath the culvert. The culvert is not set to grade, and there is approximately 10' of backcutting underneath the pipe, and a 2.5' drop to natural channel grade. The culvert is also rusty at the bottom but is not rusted through. <ul style="list-style-type: none"> Remove the culvert and replace with a 36" diameter culvert to watercourse grade. Install a trash rack at the inlet of the culvert. Exposed soil shall be stabilized as per Item 18 Soil Stabilization Measures.
		Yes	No	
9	CSDS Class II Watercourse Q100= 9.3 cfs	20 yds, Low	Yes	A Class II watercourse crosses an existing seasonal road via a 30" CMP. The pipe is rusty and water runs under the culvert. The culvert is not set to grade, and there is a ~2.5' drop at the outlet. <ul style="list-style-type: none"> Remove the culvert and replace with a 30" diameter culvert to watercourse grade. Install a critical dip. Exposed soil shall be stabilized as per Item 18 Soil Stabilization Measures.
		No	No	
10	CSDS	5 yds, Moderate	No	A ditch drains along an existing permanent road and crosses a spur road via an 18" culvert with a rock inlet. The culvert outlet is ¾ plugged with sediment and the

PART OF PLAN

Map Point	Controllable Sediment Discharge Site (CSDS), Description, Watercourse Class	Potential Sediment Discharge (cy), Priority*	CDFW 1600	Description and Recommendations
		Hydro Calc.	Geo Report	
	Ditch Relief Culvert	No	No	ditch is transporting a significant amount water; After the pipe crosses the spur road, water is discharged into the stand on flat topography. The water makes its way back to the road's edge, flows alongside it for a ~20', then eventually makes its way to the southern approach of RP 6. Water flows down the spur road for 100' to RP 6, and there is gully erosion leading to the Class II-S watercourse. There is an existing ditch line with a lower ditch relief culvert along the permanent road on the southern side of the road that would be more appropriate for this system. <ul style="list-style-type: none"> Remove the cross drain for the spur road. Replace the culvert as per Diagram # 3. Improve and deepen the ditch line on the southern side of the permanent road from RP #10 to the next DRC downgrade where the ditch is currently too shallow.
14	CSDS Class III Watercourse Q100: 5 cfs	5 yds, Low	Yes	A Class III watercourse runs down an existing seasonal road to the inlet of RP #15 (down grade of RP #14), as well as off of the road towards the outlet of RP #15, with no crossing in place. There is minor erosion in the road prism and the fillslope of the road. <ul style="list-style-type: none"> Install a 24" diameter culvert to watercourse grade. Install a critical dip. Exposed soil shall be stabilized as per Item 18 Soil Stabilization Measures.
		Yes	No	
15	CSDS Class III Watercourse Q100: 11.1 cfs	10 yds, Low	Yes	A Class III watercourse crosses an existing seasonal road via an 18" CMP. At the inlet, the culvert is rusty and at the outlet there are rust holes from the outlet to about 10' back. <ul style="list-style-type: none"> Remove the culvert and install a 30" diameter culvert to watercourse grade. Install a critical dip. Exposed soil shall be stabilized as per Item 18 Soil Stabilization Measures.
		Yes	No	
18	Bank Seep	N/A	No	A bank seep and wet area cross an existing seasonal road via a waterbar. No erosion is occurring in the road prism or edge. <ul style="list-style-type: none"> If wet during operations, install a small temporary pipe to avoid saturation of the road prism during hauling and operations. After operations and prior to the winter period of use, reinstall the waterbar at this location, or a rolling dip.
		No	No	
20.1	CSDS Class III Watercourse Q100: 1.7 cfs	10 yds, Low	Yes	A Class III watercourse crosses an existing seasonal road via an 18" CMP. The culvert is rusted through and is shotgunned with a 4' drop at the outlet. <ul style="list-style-type: none"> Remove the culvert and install a 24" diameter culvert to watercourse grade. Install a critical dip. Exposed soil shall be stabilized as per Item 18 Soil Stabilization Measures.
		No	No	
21	CSDS Class III Watercourse Q100: 2.7 cfs	5 yds, Low	Yes	A Class III watercourse crosses an existing seasonal road via an 18" CMP with a rocked fill face. The culvert is buried at the outlet. At the inlet, there are rust holes. <ul style="list-style-type: none"> Remove the culvert and install an 24" diameter culvert to watercourse grade. Install a critical dip. Exposed soil shall be stabilized as per Item 18 Soil Stabilization Measures.
		No	No	
22	CSDS	10 yds, Low	Yes	A Class III watercourse crosses an existing seasonal road via an 18" CMP. The culvert is rusted through and is shotgunned with a 1' drop at the outlet.

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Revised 2/5/2024

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Map Point	Controllable Sediment Discharge Site (CSDS), Description, Watercourse Class	Potential Sediment Discharge (cy), Priority*	CDFW 1600	Description and Recommendations
		Hydro Calc.	Geo Report	
	Class III Watercourse Q100: 1.1 cfs	No	No	<ul style="list-style-type: none"> Remove the culvert and install an 24" diameter culvert to watercourse grade. Install a critical dip. Exposed soil shall be stabilized as per Item 18 Soil Stabilization Measures.
23	CSDS Class III Watercourse Q100: 5.3 cfs 1.5:1 outfall gradient	7 yds, Moderate	Yes	<p>A Class III watercourse crosses an existing seasonal road with no crossing in place, however there is a large cavity in the road prism near the out-board edge, with water running ~10' below the road surface via a soil pipe. The channel directly above the road is poorly defined.</p> <ul style="list-style-type: none"> Install a rock armored fill crossing as per Diagram #1 using 18" D₅₀ rip rap. In the road prism, excavate to the apparent channel bottom and place larger rip rap for a minimum of 5' prior to adding road rock above. Exposed soil shall be stabilized as per Item 18 Soil Stabilization Measures.
		No	No	
31	CSDS Class III Watercourse Q100: 5.1 cfs	10 yds, Low	Yes	<p>A Class III watercourse crosses an existing seasonal road via a 24" CMP. The culvert is rusted through.</p> <ul style="list-style-type: none"> Remove the culvert and install a 24" diameter culvert to watercourse grade. Install a critical dip. Exposed soil shall be stabilized as per Item 18 Soil Stabilization Measures.
		Yes	No	
32	CSDS Bank Seep upgrade of Class II Watercourse	1 yd, Low	No	<p>A bank seep drains to an inside ditch which drains to the inlet of a Class II watercourse. Water from the bank seep currently saturates road and is minorly eroding the road prism.</p> <ul style="list-style-type: none"> Improve and deepen the ditch from this point to the inlet of the Class II watercourse crossing. Rock armor the outlet of the ditch at the culvert inlet with 10" D₅₀ rock. Spoils shall be removed from site and placed in a stable location outside of the WLPZ.
		No	No	
33	CSDS Class II Watercourse Q100: 51.0 cfs	15 yds, Low	Yes	<p>A Class II watercourse crosses an existing seasonal road via a 36" CMP. The culvert is breaking apart and rusted at the inlet, rusty all the way through, and has rust holes allowing water to run underneath the culvert. The culvert is not set to grade and there is a 4' drop at the outlet. The fillslope beneath the outlet of the culvert is back cutting due to water running beneath the culvert.</p> <ul style="list-style-type: none"> Remove the culvert and install a 54" diameter culvert to watercourse grade. Install a critical dip over the pipe. Exposed soil shall be stabilized as per Item 18 Soil Stabilization Measures.
		Yes	No	
34	CSDS Class III Watercourse Q100: 2.9 cfs	15 yds, Low	Yes	<p>A Class III watercourse crosses an existing seasonal road via a 24" CMP. The culvert is rusted through.</p> <ul style="list-style-type: none"> Remove the culvert and install a 24" diameter culvert to watercourse grade. Install a critical dip. Exposed soil shall be stabilized as per Item 18 Soil Stabilization Measures.
		Yes	No	
35	CSDS	12 yds, Low	Yes	<p>A Class III watercourse crosses an existing seasonal road via a 24" CMP. The culvert is rusted through.</p>

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Revised 2/5/2024

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Map Point	Controllable Sediment Discharge Site (CSDS), Description, Watercourse Class	Potential Sediment Discharge (cy), Priority*	CDFW 1600	Description and Recommendations
		Hydro Calc.	Geo Report	
	Class III Watercourse Q100: 7.1 cfs	Yes	No	<ul style="list-style-type: none"> Remove the culvert and install a 24" diameter culvert to watercourse grade. Install a critical dip. Exposed soil shall be stabilized as per Item 18 Soil Stabilization Measures.
C	CSDS Rolling dips and Wet Area	3 yds, Low	No	<p>A steep segment of through-cut road with a high watertable and wet areas has seven existing rolling dips. Between the 6th and 7th dip at the bottom of the road segment, additional bank seep water is contributing to the last dip. This is eroding the road prism down by about 2.5' into a gully. The road is insloped towards this dip.</p> <ul style="list-style-type: none"> At the location of the three orange flags just upgrade of the dip, excavate an inside ditch that is 1.5' wide by 2 feet deep in order to drain the wet bank seep to the outlet of the dip without eroding the road prism. Maintain all other 6 dips at their current location.
		No	No	
36	CSDS Wet Area	1 yd, Low	No	<p>A wet area crosses an existing seasonal road via a rocked dip with large sandstone rip rap at the outlet. There is a small nick point where the road prism meets the rip rap at the edge of the road.</p> <ul style="list-style-type: none"> Restack and reposition the existing rip rap at this location to ensure the edge of the road is fully armored at the dip.
		No	No	
37	CSDS Class III Watercourse Q100: 14.7 cfs	5 yds, Low	Yes	<p>A Class III watercourse and wet area collect in a ditch and cross an existing seasonal road via an 18" CMP. The culvert is rusted through. Downgrade of this crossing there is another inside ditch with a 24" CMP as a ditch relief culvert that is functional.</p> <ul style="list-style-type: none"> Remove the culvert at the watercourse crossing and install a 36" diameter culvert to watercourse grade. Install a critical dip. Exposed soil shall be stabilized as per Item 18 Soil Stabilization Measures.
		Yes	No	
40	CSDS Class III Watercourse	2 yds, Low	No	<p>A Class III watercourse runs down an existing seasonal road for ~45' before crossing the road via an earthen dip. There are no signs of major erosion at the outlet of the dip or in the road prism.</p> <ul style="list-style-type: none"> Where the Class III watercourse first hits the road, reestablish the dip upgrade of the watercourse. Install an inside ditch for 45' that leads to the dip to keep the water off of the road prism. Exposed soil shall be stabilized as per Item 18 Soil Stabilization Measures.
		No	No	
48	CSDS Class III Watercourse Q100: 1.5 cfs	8 yds, Low	Yes	<p>A Class III watercourse crosses an existing seasonal road via 12" CMP. The outlet is buried.</p> <ul style="list-style-type: none"> The LTO shall locate and clean the outlet if possible. If the culvert is crushed or damaged at the outlet, replace the culvert with a 24" culvert to watercourse grade.
		Yes	No	
49	CSDS Class III Watercourse Q100: 4.9 cfs	15 yds, Low	Yes	<p>A Class III watercourse crosses an existing seasonal road via a 30" CMP. The pipe is rusted through at least 5' from the outlet.</p> <ul style="list-style-type: none"> Remove the culvert and install a 30" diameter culvert to watercourse grade. Install a critical dip no more than 50' downgrade of the culvert. Exposed soil shall be stabilized as per Item 18 Soil Stabilization Measures.
		Yes	No	
50	CSDS	8 yds, Low	Yes	<p>A Class III watercourse crosses an existing seasonal road via a 30" CMP. The pipe is rusted through the entire length of the culvert.</p>

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Map Point	Controllable Sediment Discharge Site (CSDS), Description, Watercourse Class	Potential Sediment Discharge (cy), Priority*	CDFW 1600	Description and Recommendations
		Hydro Calc.	Geo Report	
	Class III Watercourse Q100: 6.8 cfs	Yes	No	<ul style="list-style-type: none"> Remove the culvert and install a 30" diameter culvert to watercourse grade. Install a critical dip over the pipe. Exposed soil shall be stabilized as per Item 18 Soil Stabilization Measures.
52	CSDS Class II Watercourse Q100: 28.9 cfs	15 yds, Low	Yes	<p>A Class II watercourse crosses an existing seasonal road via a 36" CMP. The pipe is rusted through the entire length of the culvert. A 3' long x 4' wide x 1.5' deep hole exists in the road prism over the culvert. A Class III watercourse at RP 53 delivers to the crossing at RP 52 by way of a shallow inside ditch and saturates the road prism.</p> <ul style="list-style-type: none"> Remove the culvert and install a 36" diameter culvert to watercourse grade. The inside ditch will outlet the Class III watercourse to the inlet of this Class II watercourse. Rock armor the fill face and inside ditch at the southern side of the inlet with 10" D₅₀ rip rap. Install a critical dip over the pipe. Exposed soil shall be stabilized as per Item 18 Soil Stabilization Measures.
		Yes	No	
53	CSDS Class III Watercourse	5 yds, Low	Yes	<p>A Class III watercourse runs down an inside ditch, then on the road prism towards RP 52.</p> <ul style="list-style-type: none"> Re-establish the inside ditch to connect to the inlet of RP 52. As stated above, rock armor the inlet and fill face of culvert where the ditch intercepts it.
		No	No	
54	CSDS Class II Watercourse Q100: 22.0 cfs	10 yds, Low	Yes	<p>A Class II watercourse crosses an existing seasonal road via a 30" CMP. The culvert is rusted through for 5-10' at the outlet, and the inlet bottom is broken apart.</p> <ul style="list-style-type: none"> Remove the culvert and install a 36" diameter culvert to watercourse grade. Install a critical dip over the pipe. Exposed soil shall be stabilized as per Item 18 Soil Stabilization Measures.
		Yes	No	
55	CSDS Class III Watercourse Q100: 0.6 cfs	4 yds, Low	Yes	<p>A Class III watercourse crosses an existing seasonal road via a 24" CMP. The culvert is rusted through at both the inlet and outlet. It is not to watercourse grade, and has a flume at the outlet (20' long). The culvert is located on an inside turn in the road, the road is outslowed, and there is an old fillslope failure at the outlet. The fillslope at the edge of the road is vertical in some places, but overall is stable, mostly vegetated and has young straight redwood and Douglas-fir trees (6-16" DBH) growing throughout the feature. The road upgrade (east) of the crossing is shedding water off the road onto the feature in various locations prior to the culvert. There is a shallow, overflowing inside ditch that is also allowing water to cross the road rather than flow into the inlet of the crossing.</p> <ul style="list-style-type: none"> Remove the culvert and install a 24" diameter culvert. Install the culvert so that the outlet is set to where there is a well-defined channel, about 10' downslope of the current flume outlet. (~35' slope distance from road edge). Setting the culvert to watercourse grade in this location is not feasible due to the unknown depth at which true watercourse grade exists within the deposited material from the fill failure near the outlet. Layback the vertical fillslopes to the extent feasible where remaining after installation; cut into the cutbank to gain appropriate road width if needed. Install a rolling dip 65' upgrade of the culvert, to outlet where "dip" is painted on a tree. Downgrade of the dip, reinstall the inside ditch to approximately 6" deep. Install a critical dip over the pipe. Exposed soil shall be stabilized as per Item 18 Soil Stabilization Measures.
		Yes	No	

PART OF PLAN

Map Point	Controllable Sediment Discharge Site (CSDS), Description, Watercourse Class	Potential Sediment Discharge (cy), Priority* Hydro Calc.	CDFW 1600 Geo Report	Description and Recommendations
-----------	-----------------------------------------------------------------------------	-------------------------------------------------------------	-------------------------	---------------------------------

- *High Immediacy Sites: Must be completed within one year of plan approval.**
- Moderate Immediacy Sites: Must be completed within the first full year of operation.**
- Low Immediacy Sites: Must be completed during the life of the plan.**

Implementation Schedule

As discussed in the table, minimization management measures are proposed to be conducted for “Low” to “High” sites. Minimization management measures are proposed to be conducted from April 1-Nov. 15. This work may be conducted during the life of the plan. Although some sites may be considered higher priority sites than others, some sites require other measures to be completed first to reach higher priority sites. This THP is scheduled to be harvested and operated in 2023-2024. This is due to scheduling requirements and planning implementation for the Gualala Tract.

Inspection Plan

The inspection plan is intended to ensure that all required management measures are installed and functioning prior to rain events, that the management measures were effective in controlling sediment discharge sources throughout the winter period, and that no new controllable sediment discharge sources have developed.

Names and contact numbers of the assigned inspection personnel:

John Bennett, Forest Manager, (707) 894-4245

Project Areas where Timber Harvest Activities have Not Yet Commenced

No inspections are required.

Project Areas where Timber Harvest Activities have Commenced and No Winter Period Timber Harvest Activities have Occurred

At a minimum, conduct inspections each year and throughout the duration of the Project while Timber Harvest Activities occur and the Project is covered under General WDRs as follows:

1. By November 15 to assure Project areas are secure for the winter; and
2. Once following ten (10) inches of cumulative rainfall commencing on November 15 and prior to March 1, as worker safety and access allows; and
3. After April 1 and before June 15 to assess the effectiveness of management measures designed to address controllable sediment discharge and to determine if any new controllable sediment discharge sources have developed.

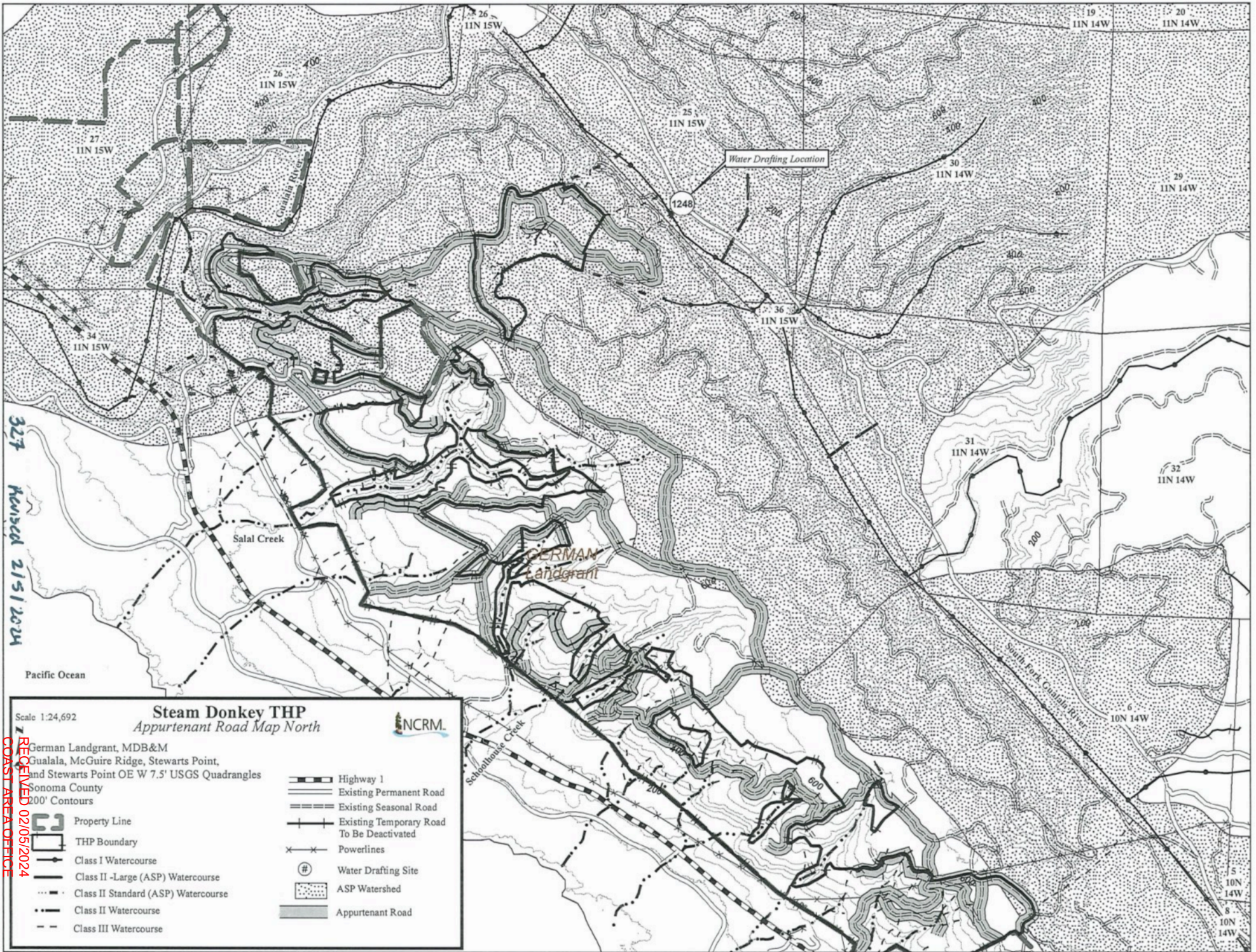
Project Areas with Winter Period Timber Harvest Activities

Project areas with timber harvest activities during the winter period shall, at a minimum, conduct inspections of such Project areas while Timber Harvest Activities occur and the Project is covered under General WDRs as follows:

1. Immediately following the cessation of winter period timber harvest activities to assure areas with winter timber harvest activities are secure for the winter;
2. Once following ten (10) inches of cumulative rainfall commencing on November 15 and prior to March 1, as worker safety and access allows; and
3. After April 1 and before June 15 to assess the effectiveness of management measures designed to address controllable sediment discharge and to determine if any new controllable sediment discharge sources have developed.

Inspection reports prepared pursuant to section III.G. (Amendments) shall identify where management measures have been ineffective and when the Discharger will implement repairs or design changes to correct management measure failures.

If any new controllable sediment discharge sources are identified, such sites shall be addressed in accordance with the provisions of section III. B.3.



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Steam Donkey THP
Appurtenant Road Map North



Scale 1:24,692
 German Landgrant, MDB&M
 Gualala, McGuire Ridge, Stewarts Point,
 and Stewarts Point OE W 7.5' USGS Quadrangles
 Sonoma County
 200' Contours

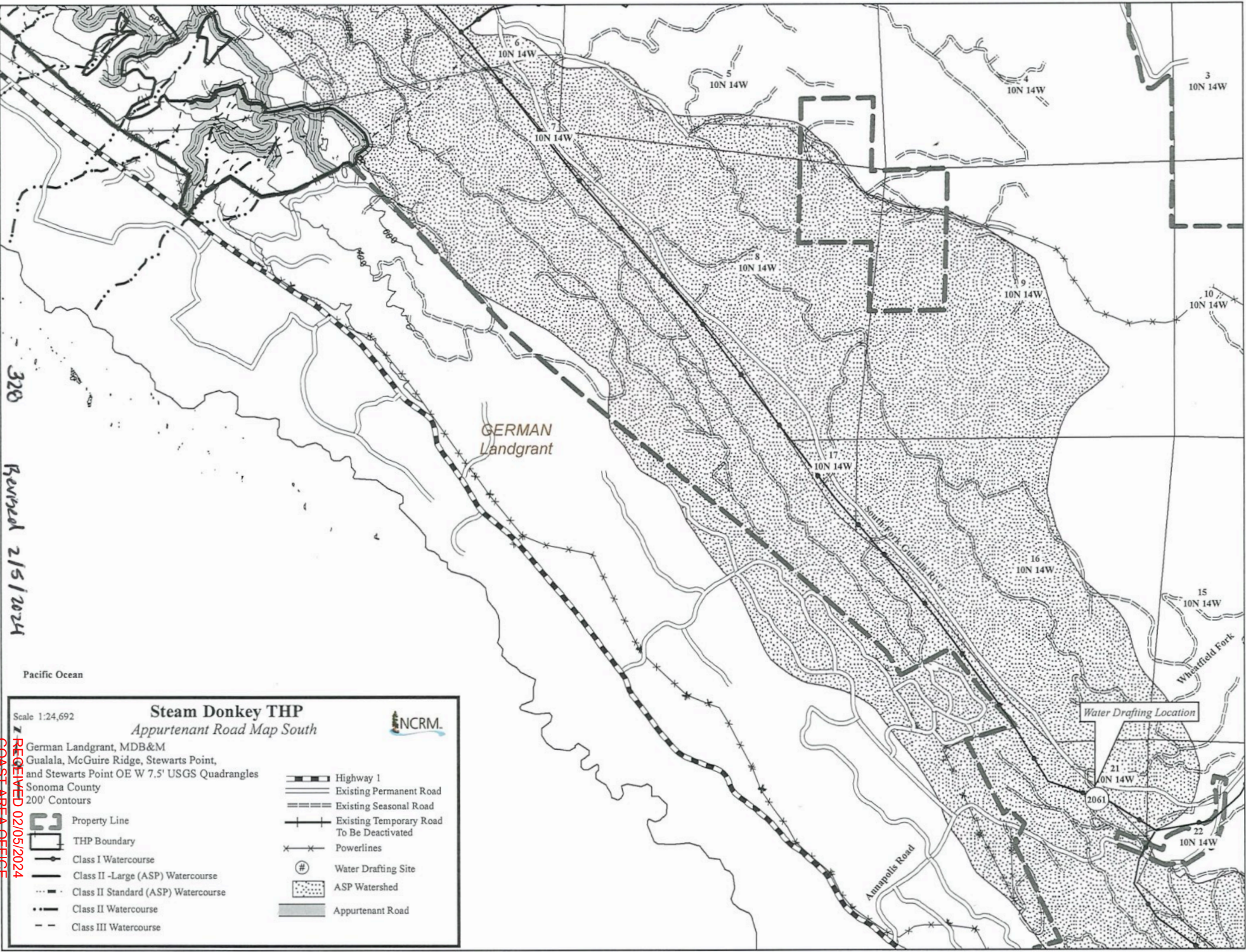
- | | | | |
|--|-------------------------------------|--|-------------------------------------------|
| | Property Line | | Highway 1 |
| | THP Boundary | | Existing Permanent Road |
| | Class I Watercourse | | Existing Seasonal Road |
| | Class II - Large (ASP) Watercourse | | Existing Temporary Road To Be Deactivated |
| | Class II Standard (ASP) Watercourse | | Powerlines |
| | Class II Watercourse | | Water Drafting Site |
| | Class III Watercourse | | ASP Watershed |
| | | | Appurtenant Road |

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GERMAN Landgrant

Amador Road

Water Drafting Location

Pacific Ocean

Scale 1:24,692

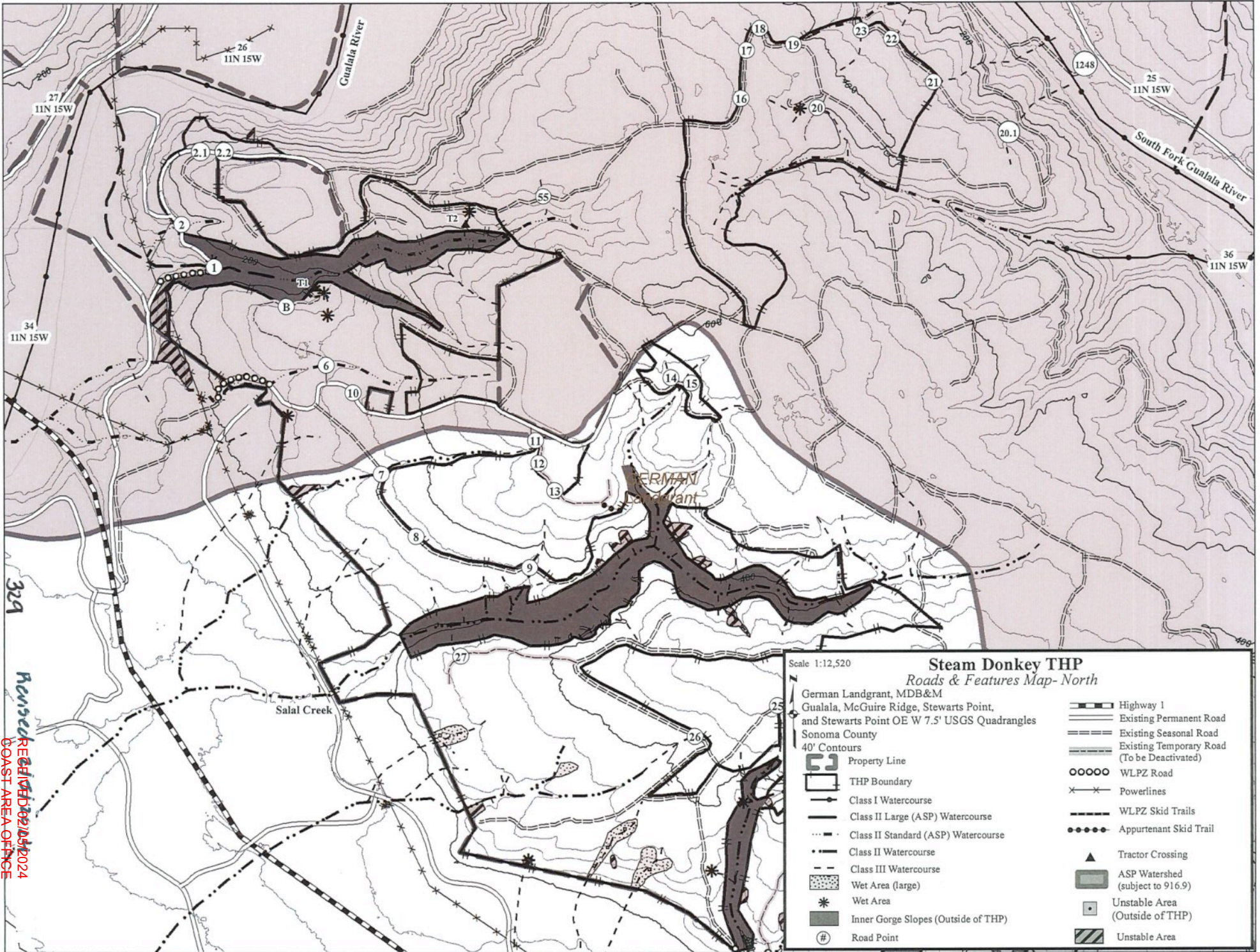
Steam Donkey THP
Appurtenant Road Map South

German Landgrant, MDB&M
Gualala, McGuire Ridge, Stewarts Point,
and Stewarts Point OE W 7.5' USGS Quadrangles
Sonoma County
200' Contours

INCRM

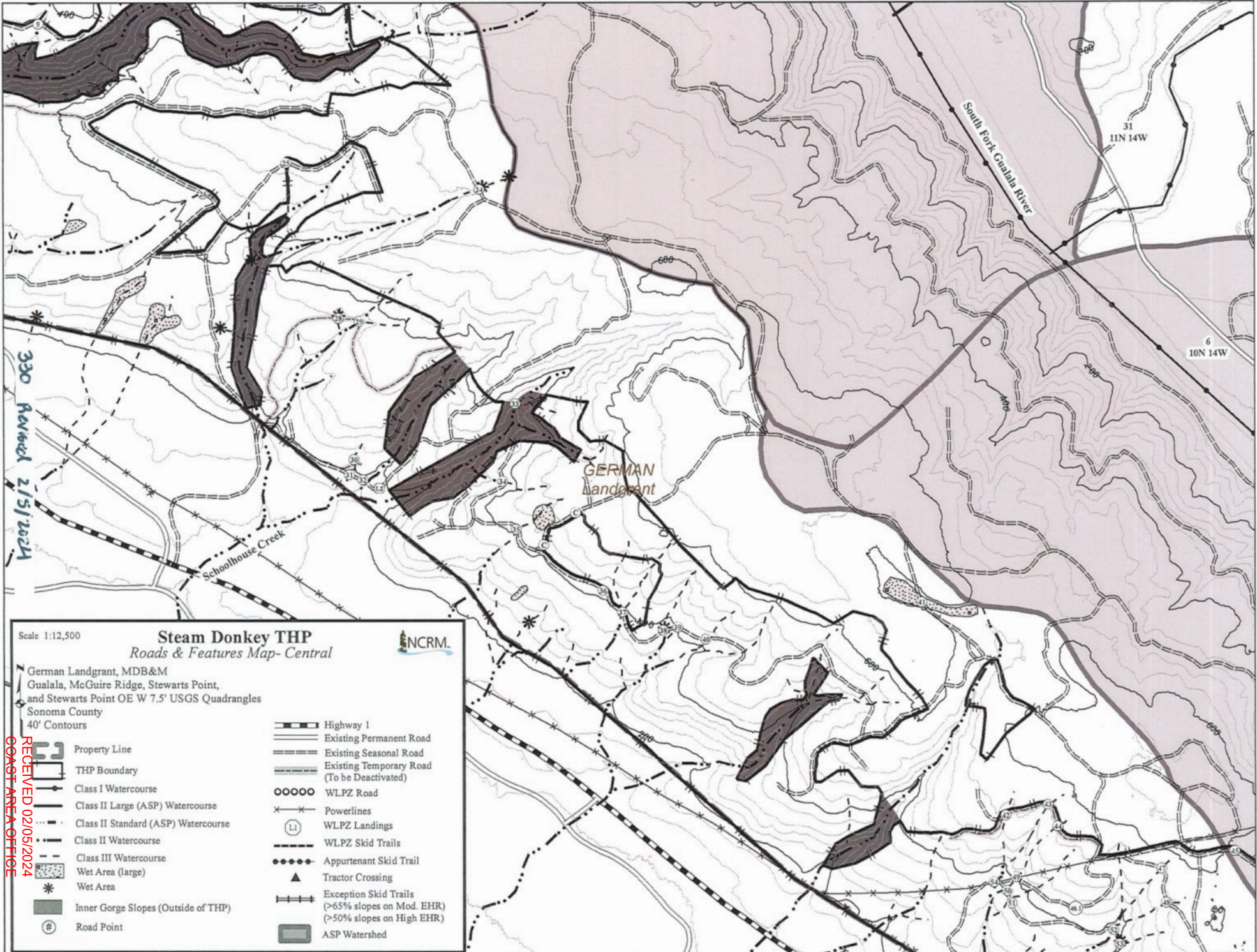
	Highway 1		Existing Permanent Road
	Existing Seasonal Road		Existing Temporary Road To Be Deactivated
	Powerlines		Water Drafting Site
	Property Line		ASP Watershed
	THP Boundary		Appurtenant Road
	Class I Watercourse		
	Class II -Large (ASP) Watercourse		
	Class II Standard (ASP) Watercourse		
	Class II Watercourse		
	Class III Watercourse		

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Scale 1:12,500

Steam Donkey THP

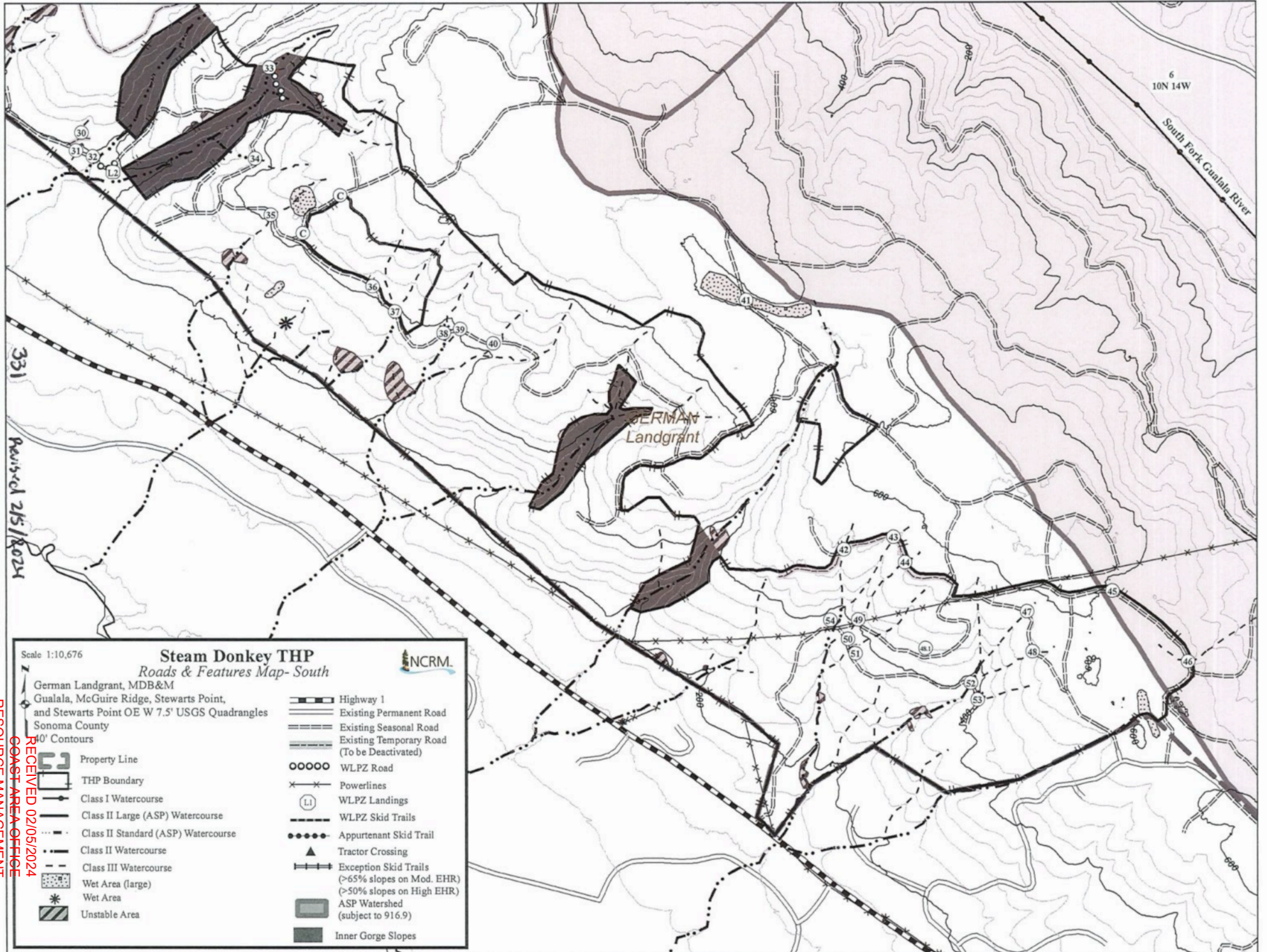
Roads & Features Map-Central

NCRM

German Landgrant, MDB&M
Gualala, McGuire Ridge, Stewarts Point,
and Stewarts Point OE W 7.5' USGS Quadrangles
Sonoma County
40' Contours

	Property Line		Highway 1
	THP Boundary		Existing Permanent Road
	Class I Watercourse		Existing Seasonal Road
	Class II Large (ASP) Watercourse		Existing Temporary Road (To be Deactivated)
	Class II Standard (ASP) Watercourse		WLPZ Road
	Class II Watercourse		Powerlines
	Class III Watercourse		WLPZ Landings
	Wet Area (large)		WLPZ Skid Trails
	Wet Area		Appurtenant Skid Trail
	Inner Gorge Slopes (Outside of THP)		Tractor Crossing
	Road Point		Exception Skid Trails (>65% slopes on Mod. EHR) (>50% slopes on High EHR)
			ASP Watershed

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Scale 1:10,676

Steam Donkey THP
Roads & Features Map- South

German Landgrant, MDB&M
Gualala, McGuire Ridge, Stewarts Point,
and Stewarts Point OE W 7.5' USGS Quadrangles
Sonoma County

10' Contours

Legend:

- Property Line
- THP Boundary
- Class I Watercourse
- Class II Large (ASP) Watercourse
- Class II Standard (ASP) Watercourse
- Class II Watercourse
- Class III Watercourse
- Wet Area (large)
- Wet Area
- Unstable Area
- Highway 1
- Existing Permanent Road
- Existing Seasonal Road
- Existing Temporary Road (To be Deactivated)
- WLPZ Road
- Powerlines
- WLPZ Landings
- WLPZ Skid Trails
- Appurtenant Skid Trail
- Tractor Crossing
- Exception Skid Trails (>65% slopes on Mod. EHR, >50% slopes on High EHR)
- ASP Watershed (subject to 916.9)
- Inner Gorge Slopes

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10N 14W

South Fork Gualala River

GERMAN
Landgrant

Cfs Calculations For Culverts and Rock Armored Fill Crossings										
Location:		Steam Donkey THP		Gualala, CA						
Rational Method for 100-year flood flow (A < 200 acres)						Q100=CiA	C=runoff Coefficient	A=area (acres)		
		3.16	2.87	2.59	2.21		i= precipitation 100 yr return in/hr			
No.	Crossing	Runoff coefficient C	100-year Return-Period Precipitation I' (in/hr)	50-year Return-Period Precipitation I' (in/hr)	25-year Return-Period Precipitation I' (in/hr)	10-year Return-Period Precipitation I' (in/hr)	Area (acres) A	100-yr flood flow (cfs) Q100	Minimum Culvert or Rock Size Required	Alternative Culvert Size Selected
7		0.35	3.2	2.9	2.6	2.2	16.6	18.6	36	
9		0.35	3.2	2.9	2.6	2.2	8.2	9.3	27	30
14		0.35	3.2	2.9	2.6	2.2	4.4	5.0	18	24
15		0.35	3.2	2.9	2.6	2.2	9.8	11.1	27	30
20.1		0.35	3.2	2.9	2.6	2.2	1.5	1.7	18	24
21		0.35	3.2	2.9	2.6	2.2	2.4	2.7	18	24
22		0.35	3.2	2.9	2.6	2.2	1	1.1	18	24
23		0.35	3.2	2.9	2.6	2.2	4.7	5.3	18" D50	
31		0.35	3.2	2.9	2.6	2.2	4.5	5.1	21	24
33		0.35	3.2	2.9	2.6	2.2	45	51.0	54	
34		0.35	3.2	2.9	2.6	2.2	2.6	2.9	18	24
35		0.35	3.2	2.9	2.6	2.2	6.3	7.1	24	
37		0.35	3.2	2.9	2.6	2.2	13	14.7	33	36
48		0.35	3.2	2.9	2.6	2.2	1.28	1.5	18	24
49		0.35	3.2	2.9	2.6	2.2	4.3	4.9	18	30
50		0.35	3.2	2.9	2.6	2.2	6	6.8	24	30
52		0.35	3.2	2.9	2.6	2.2	25.5	28.9	36	
54		0.35	3.2	2.9	2.6	2.2	19.4	22.0	36	
55		0.35	3.2	2.9	2.6	2.2	0.5	0.6	18	24

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Magnitude and Frequency Method for 100-year flood flow (A > 100 acres)

No.	Crossing	Area (acres) A	Area (mi ²) A	Avg. Annual Precipitation (in/yr) p	100-yr flood flow Q100 (cfs)	50-yr flood flow Q50 (cfs)	Magnitude & Frequency Q ₁₀₀ equations	Minimum Culvert Size Required
1		106	0.17	41.6	81.2	64.0	North Coast Q100= (48.5*A*0.866)* (p^0.556)	73"x55" pipe-arch culvert

Revised 2/15/2024

If questions, contact Mr. Wopat at 530-24-4748 or at michael.wopat@fire.ca.gov

Template prepared by:
Michael Wopat
California Geological Survey
6105 Airport Road
Redding, CA 96002

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Map Point #	area (ac)	100 year flood (cfs)	Headwall to pipe diameter ratio	What does the pipe inlet look like?	100 yr	
					Culvert Size (in)	area (ft2)
1	106	81.2	0.67	Mitred/bevel ->	66	23.7
				Projected pipe ->	72	28.3
				Mitred/bevel ->	66	23.7
			0.75	Projected pipe ->	66	23.7
				Mitred/bevel ->	54	15.9
				Projected pipe ->	60	19.6
0.9	Mitred/bevel ->	51	14.2			
	Projected pipe ->	54	15.9			
	Mitred/bevel ->	36	7.1			
7	17	18.6	0.67	Projected pipe ->	42	9.8
				Mitred/bevel ->	33	5.9
				Projected pipe ->	36	7.1
			0.75	Mitred/bevel ->	33	5.9
				Projected pipe ->	33	5.9
				Mitred/bevel ->	30	4.9
0.9	Projected pipe ->	30	4.9			
	Mitred/bevel ->	27	4.0			
	Projected pipe ->	27	4.0			
9	8	9.3	0.67	Mitred/bevel ->	27	4.0
				Projected pipe ->	27	4.0
				Mitred/bevel ->	27	4.0
			0.75	Projected pipe ->	27	4.0
				Mitred/bevel ->	24	3.1
				Projected pipe ->	24	3.1
0.9	Mitred/bevel ->	21	2.4			
	Projected pipe ->	24	3.1			
	Mitred/bevel ->	18	1.8			
14	4	5.0	0.67	Projected pipe ->	18	1.8
				Mitred/bevel ->	18	1.8
				Projected pipe ->	18	1.8
			0.75	Mitred/bevel ->	18	1.8
				Projected pipe ->	18	1.8
				Mitred/bevel ->	18	1.8
0.9	Projected pipe ->	18	1.8			
	Mitred/bevel ->	18	1.8			
	Projected pipe ->	18	1.8			
15	10	11.1	0.67	Projected pipe ->	27	4.0
				Mitred/bevel ->	30	4.9
				Projected pipe ->	27	4.0
			0.75	Projected pipe ->	30	4.9
				Mitred/bevel ->	24	3.1
				Projected pipe ->	27	4.0
0.9	Mitred/bevel ->	24	3.1			
	Projected pipe ->	24	3.1			
	Mitred/bevel ->	18	1.8			
20.1	2	1.7	0.67	Projected pipe ->	18	1.8
				Mitred/bevel ->	18	1.8
				Projected pipe ->	18	1.8
			0.75	Mitred/bevel ->	18	1.8
				Projected pipe ->	18	1.8
				Mitred/bevel ->	18	1.8
0.9	Projected pipe ->	18	1.8			
	Mitred/bevel ->	18	1.8			
	Projected pipe ->	18	1.8			
21	2	2.7	0.67	Projected pipe ->	18	1.8
				Mitred/bevel ->	18	1.8
				Projected pipe ->	18	1.8
			0.75	Projected pipe ->	18	1.8
				Mitred/bevel ->	18	1.8
				Projected pipe ->	18	1.8
0.9	Mitred/bevel ->	18	1.8			
	Projected pipe ->	18	1.8			
	Mitred/bevel ->	18	1.8			

Map Point #	area (ac)	100 year flood (cfs)	Headwall to pipe diameter ratio	What does the pipe inlet look like?	100 yr	
					Culvert Size (in)	area (ft2)
22	1	1.1	0.67	Mitred/bevel ->	18	1.8
				Projected pipe ->	18	1.8
				Mitred/bevel ->	18	1.8
			0.75	Projected pipe ->	18	1.8
				Mitred/bevel ->	18	1.8
				Projected pipe ->	18	1.8
23	5	5.3	0.67	Mitred/bevel ->	21	2.4
				Projected pipe ->	21	2.4
				Mitred/bevel ->	21	2.4
			0.75	Projected pipe ->	21	2.4
				Mitred/bevel ->	18	1.8
				Projected pipe ->	18	1.8
31	5	5.1	0.67	Mitred/bevel ->	21	2.4
				Projected pipe ->	21	2.4
				Mitred/bevel ->	21	2.4
			0.75	Projected pipe ->	21	2.4
				Mitred/bevel ->	18	1.8
				Projected pipe ->	18	1.8
33	45	51.0	0.67	Mitred/bevel ->	54	15.9
				Projected pipe ->	60	19.6
				Mitred/bevel ->	48	12.6
			0.75	Projected pipe ->	54	15.9
				Mitred/bevel ->	48	12.6
				Projected pipe ->	48	12.6
34	3	2.9	0.67	Mitred/bevel ->	48	12.6
				Projected pipe ->	48	12.6
				Mitred/bevel ->	48	12.6
			0.75	Projected pipe ->	48	12.6
				Mitred/bevel ->	18	1.8
				Projected pipe ->	18	1.8
35	6	7.1	0.67	Mitred/bevel ->	24	3.1
				Projected pipe ->	24	3.1
				Mitred/bevel ->	24	3.1
			0.75	Projected pipe ->	24	3.1
				Mitred/bevel ->	21	2.4
				Projected pipe ->	21	2.4
37	13	14.7	0.67	Mitred/bevel ->	33	5.9
				Projected pipe ->	33	5.9
				Mitred/bevel ->	30	4.9
			0.75	Projected pipe ->	33	5.9
				Mitred/bevel ->	27	4.0
				Projected pipe ->	30	4.9
0.9	Mitred/bevel ->	27	4.0			
	Projected pipe ->	27	4.0			
	Mitred/bevel ->	27	4.0			

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Map Point #	area (ac)	100 year flood (cfs)	Headwall to pipe diameter ratio	What does the pipe inlet look like?	100 yr	100 yr
					Culvert Size (in)	area (ft ²)
48	1	1.5	0.67	Mitred/bevel ->	18	1.8
				Projected pipe ->	18	1.8
			0.75	Mitred/bevel ->	18	1.8
				Projected pipe ->	18	1.8
			0.9	Mitred/bevel ->	18	1.8
				Projected pipe ->	18	1.8
49	4	4.9	1	Mitred/bevel ->	18	1.8
				Projected pipe ->	18	1.8
			0.67	Mitred/bevel ->	18	1.8
				Projected pipe ->	18	1.8
			0.75	Mitred/bevel ->	18	1.8
				Projected pipe ->	18	1.8
50	6	6.8	1	Mitred/bevel ->	18	1.8
				Projected pipe ->	18	1.8
			0.67	Mitred/bevel ->	24	3.1
				Projected pipe ->	24	3.1
			0.75	Mitred/bevel ->	21	2.4
				Projected pipe ->	24	3.1
52	26	28.9	0.9	Mitred/bevel ->	21	2.4
				Projected pipe ->	21	2.4
			1	Mitred/bevel ->	18	1.8
				Projected pipe ->	18	1.8
			0.67	Mitred/bevel ->	36	7.1
				Projected pipe ->	48	12.6
0.75	Mitred/bevel ->	42	9.6			
	Projected pipe ->	42	9.6			
55	1	0.6	0.9	Mitred/bevel ->	36	7.1
				Projected pipe ->	36	7.1
			1	Mitred/bevel ->	33	5.9
				Projected pipe ->	36	7.1
			0.67	Mitred/bevel ->	18	1.8
				Projected pipe ->	18	1.8
0.75	Mitred/bevel ->	18	1.8			
	Projected pipe ->	18	1.8			
0.9	Mitred/bevel ->	18	1.8			
	Projected pipe ->	18	1.8			
1	Mitred/bevel ->	18	1.8			
	Projected pipe ->	18	1.8			

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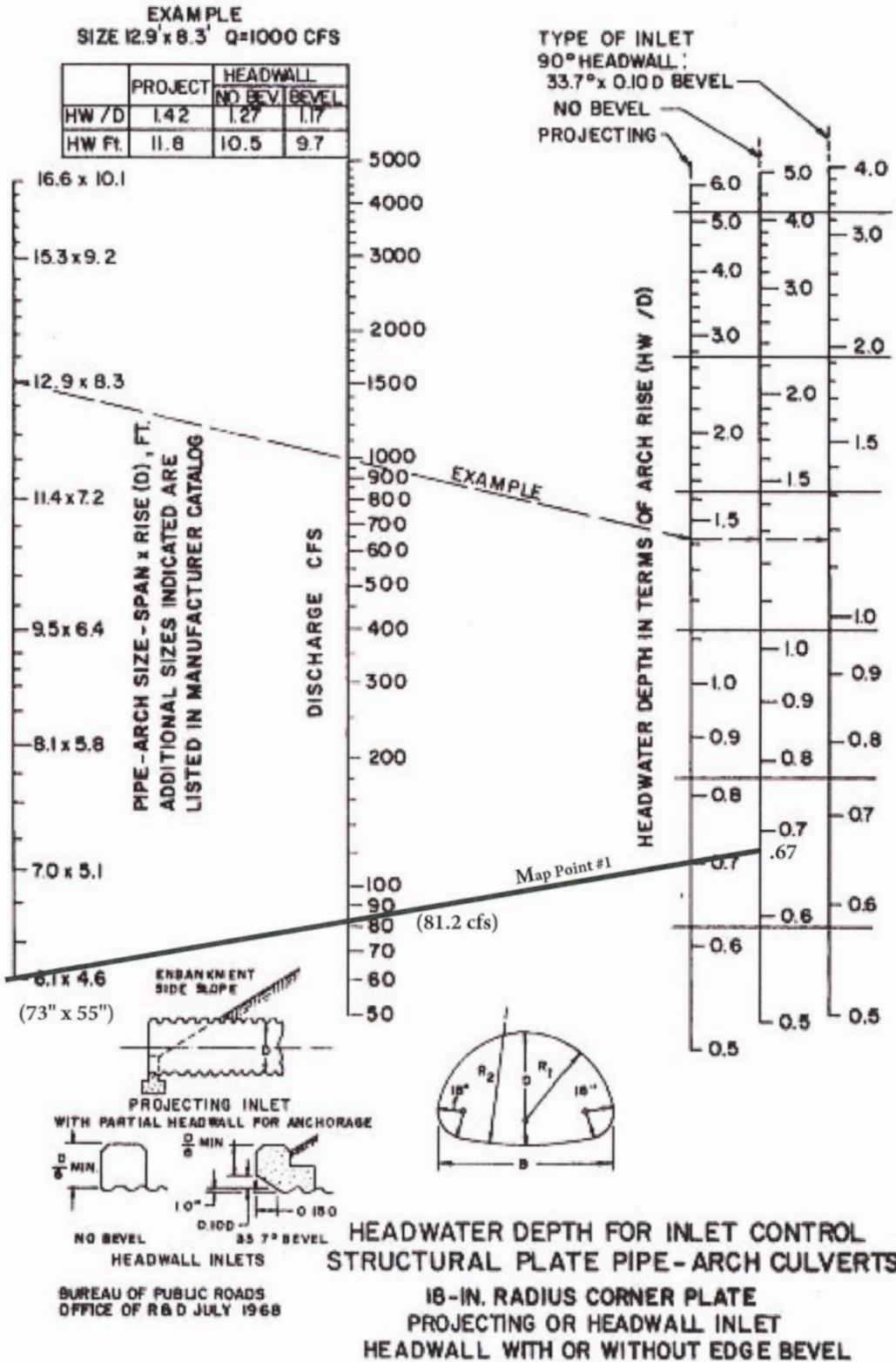
Revised 2/15/2024

PART OF PLAN



Steam Donkey THP Map Point #1: Pipe-arch Culvert Sizing Chart

Map Point #1: 81.2 cfs



JUNE 6, 2023

MIR. JOHN BENNETT, FOREST MANAGER GUALALA REDWOOD TIMBER, LLC
P.O. BOX 197 GUALALA, CA 95445

I am writing to commend your hazardous fuels reduction efforts around the community of Sea Ranch. Over the course of my 35-year fire service career, I have witnessed the impact our changing climate has on increasingly more devastating wildfires. These impacts have contributed to the devastation of communities around the state, including the destruction of my hometown, Paradise CA.

During my recent visit to your project site, I was encouraged to see the work you have planned to help increase the survivability of the community. I applaud your efforts to help mitigate the increasing threat posed by wildfires that have rapidly grown in scope and magnitude over the last 10 years.

Coastal communities are not immune to large, devastating wildfires. Take for example the 2020 CZU Lightning Complex that burned 86,509 acres, destroyed 1,490 buildings, and took the life of a civilian. Or the 2016 Soberanes fire which burned 132,127 acres, destroyed 57 homes, and took the life of a contract firefighter.

Longer, hotter fire seasons, diseases like Sudden Oak Death and bark beetle infestation, more extreme weather patterns such as winds, and the lingering effects of consecutive drought years are contributing factors that line up to support these kinds of destructive fires and they are only increasing in occurrence. This underscores the importance of the work you are planning, and I commend you for your efforts.

Scott Upton, CAL FIRE Northern Region Chief (Ret.)

Scott Upton

2129 Euclid Ave. Napa, CA 94558 | (707) 927-8030 scottupton@gmail.com

Education

A.A. BEHAVIORAL STUDIES | 2008 | BUTTE COLLEGE, OROVILLE

Skills & Abilities

MANAGEMENT

As a Region Chief, I served under the California Department of Forestry and Fire Protection (CAL FIRE) director and was responsible for California's Northern Region, which extends from Santa Clara to the Oregon border. I was also a member of the Department's Executive Team.

COMMUNICATION

As an Executive Team member, I played a critical role in the team's internal and external functions, coordinating cross program projects and acting as the Northern Region's 'trouble shooter' for sensitive, political and/or controversial issues. I also coordinated regularly with the Governor's office, the office of California's Secretary for Natural Resources, the Office of Emergency Services, (Cal OES) and a host of other entities including federal, state, local, tribal, non-profit and private sector agencies.

LEADERSHIP

I led the effort in the Northern Region in implementing the Department's bolstered fuels treatment program, a key part of the State's plan to increase the pace and scale of controlled burns and other projects in order to improve forest health. In coordination with FEMA, Cal OES, the Army Corps of Engineers and private contractors, I led the Department's role in facilitating the recovery efforts after the devastating 2017 North Bay fires.

Experience

NORTHERN REGION CHIEF | CAL FIRE | JANUARY 2016 – DECEMBER 2018

Appointed by the director for one of the largest fire departments in the United States, I was responsible for the oversight and operations of CAL FIRE's Northern Region. I also served as a key member of the Department's Executive leadership team. In this capacity, I was an integral part of the effort to mitigate the state's largest, deadliest and most damaging incidents.

UNIT CHIEF | CAL FIRE SONOMA-LAKE-NAPA UNIT | AUGUST 2014 – DECEMBER 2015 I was responsible for overseeing the implementation of the Department's mission in the 6 counties within the Unit.

NAPA COUNTY FIRE CHIEF/CAL FIRE ASSISTANT CHIEF | DECEMBER 2012 – AUGUST 2014 I was responsible for all operations in Napa County under the cooperative fire protection agreement between the County and CAL FIRE.

BATTALION CHIEF | CAL FIRE SONOMA-LAKE-NAPA UNIT | JUNE 2009 – NOVEMBER 2012

Respond to and mitigate a wide variety of all risk emergencies. Also managed the South Lake Fire Protection District as the Operations Chief in addition to my state duties which included membership on CAL FIRE's Incident Management Team (IMT) 2/Safety Officer. I was also an Incident Commander (T) on IMT 6 prior to my appointment as Unit Chief at which time my IMT eligibility ended due to my increase in rank.

FIRE CAPTAIN/AIR TACTICAL GROUP SUPERVISOR | BUTTE UNIT CHICO AIR ATTACK BASE | MAY 2007 – MAY 2009

Assigned to CAL FIRE's Air Program, I managed both fixed and rotary wing aircraft over numerous Initial Attack incidents and several large, complex wildfires. During the course of my time in the air program, I oversaw air operations involving every type of air asset from single engines SEAT planes to the then relatively new VLAT tankers.

FIRE CAPTAIN B | CAL FIRE TEHAMA-GLENN UNIT/LASSEN-MODOC UNIT ISHI & DEVIL'S GARDEN CONSERATION CAMPS | MAY 2002 – APRIL 2007

During my assignment as a Fire Captain B, I helped develop the Department's chain saw certification program, including the C Faller (unlimited) curriculum.

VOLUNTEER FIREFIGHTER – CAREER FIRE CAPTAIN | TOWN OF PARADISE FIRE DEPARTMENT

I began my fire service career as a volunteer firefighter. I was soon recruited to serve as a career firefighter and ascended through the ranks of Fire Apparatus Engineer and Fire Captain while at Paradise Fire Department. In addition to my front line emergency response duties, collateral duties included Rescue Team Lead, and Dive Master for Butte County's Interagency Rescue Team.

May 22, 2023

Gualala Redwood Timber, LLC
PO BOX 197
Gualala, CA 95445
C/o John Bennett, Forest Manager

Mr. Bennett,

This letter is to inform you of the filing of "Steam Donkey" Timber Harvest Plan (THP) on your property located in portions of German Landgrant MDB&M in Sonoma County, CA. In accordance with Item 13(a) of the THP and Title 14CCR 1035.1(a)(2) of the Forest Practice Rules, I hereby notify you of your responsibilities as plan submitter and timberland owner. Your responsibilities are as follows:

As Plan Submitter:

1. You must ensure that an RPF conduct any activities that require an RPF.
2. You must provide the RPF preparing the plan or amendments with complete and accurate information regarding pertinent legal rights to, interests in, and responsibilities for land, timber, and access as these affect the planning and conduct of timber operations.
3. You must sign the THP certifying knowledge of the plan contents and the requirements of this section.
4. You must retain an RPF who is available to provide professional advice to the LTO and timberland owner upon request throughout the active timber operations regarding:
 - A) The plan,
 - B) The Forest Practice Rules, and
 - C) Other associated regulations pertaining to timber operations.

You may waive the requirement to retain an RPF to provide professional advice to the LTO and timberland owner under the following conditions:

- A) You provide advice to the LTO on a continuing basis throughout the active timber operations provided that you are a natural person who personally performs the services of a professional forester and such services are personally performed on lands owned by the timberland owner;
- B) You agree to be present on the logging area at a sufficient frequency to know the progress of operations and advise the LTO, but not less than once during the life of the plan.

I have included myself in the THP as the RPF responsible for providing professional advice. If you wish to waive the requirement to retain me as RPF you must provide in writing an agreement to A & B above and this agreement will be made part of the plan.

Also, it is hereby being disclosed that you are the real party of interest for whom we are providing professional forestry services and we know of no current or potential conflict of interest we may have with regard to the timber or land that is subject to operations under the plan.

5. Within 5 working days of change in RPF responsibilities for THP implementation or substitution of another RPF, you must file with the Director of CDF at 135 Ridgway Ave., Santa Rosa, CA., 95401 a notice that states the RPF's name and registration number, address, and subsequent responsibilities for any RPF required fieldwork, amendment preparation, or operation supervision.
6. You must provide a copy of the portions of the approved THP and any approved operational amendments to the LTO containing the General Information, Plan of Operations, THP Map, Yarding System Map, Erosion Hazard Rating Map and any other information deemed by the RPF to be necessary for timber operations.
7. You must notify the Director prior to commencement of site preparation operations. Receipt of a burning permit is sufficient notice.

As Timberland Owner:

8. After the work completion report has been filed and approved by CDF, it is your responsibility to maintain roads and erosion control devices through the prescribed maintenance period. The prescribed maintenance period for erosion control devices on permanent and seasonal roads and associated landings and drainage facilities shall be three years.
9. All trees to be harvested will be marked by the RPF or her designee prior to the start of timber harvest operations. If you have any questions regarding the mark, please contact the RPF prior to the start of operations.
10. You must comply with the Resource Conservation Standards for Minimum Stocking immediately upon completion of timber operations and file a stocking report within six months following the completion of operations. Stocking standards are stated in Section III of the THP.

11. Within one month after completion of the work described in the timber harvest plan, excluding work for stocking, site preparation, or maintenance of drainage and soil stabilization treatments on skid trails, roads, and landings after the plan period, a work completion report shall be filed with the Department.

12. Within 5 working days of change of ownership of the property, file with the Director a notice, which amends the listed owners off of the plan and the new owners on to the THP.

If you have any questions regarding your responsibilities pertaining to the Timber Harvest Plan, please do not hesitate to call me.

Sincerely,



Madeline Green
North Coast Resource Management, Inc.
Forester, RPF #3069
(707) 485-7211 Ext. 306

April 19th, 2023

RE: Steam Donkey THP; Request for Information on the Known Presence of Domestic Water Use; All Adjacent Landowners Within 1000' Downstream of THP

Dear Neighbor,

I am a Registered Professional Forester in the process of preparing a Timber Harvest Plan (THP) for a neighboring landowner, Gualala Redwood Timber, LLC. This THP may have areas that drain surface water toward, within, or adjacent to your property. I am writing on behalf of the plan submitter, as required by the Forest Practice Act, Title 14, California Code of Regulations 1032.10, requesting information on surface located domestic water use from landowners having water supplies within the plan area, or having water supplies within 1,000 feet of the plan area whose ownership adjoins or includes a Class I (fish bearing), Class II (supports non-fish aquatic species), or Class IV (man-made) watercourse(s) which receives surface drainage from the proposed timber harvest operations. *Domestic water use means the use of water in homes, motels, resorts, organizations camps, campgrounds etc., including the incidental watering of domestic stock for family sustenance or enjoyment and the irrigation of not more than one half acre in lawn, ornamental shrubbery, or gardens at any single establishment. The use of water at a campground or resort for human consumption, cooking or sanitary purposes is also domestic use. While traditional drilled wells are domestic water use, they are not a surface bearing watercourse, and do not need to be reported.*

The THP is located approximately 1.5 air miles southeast of Gualala, CA in Sonoma County, and is accessed via HWY 1, to the east. The legal description of the proposed THP is:

German Land Grant; MDB&M.

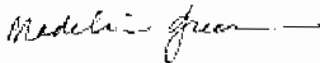
The following watercourses receive drainage from the proposed timber operations:

South Fork Gualala River and the Gualala River, as well as unnamed tributaries to the aforementioned watercourses. The majority of the watercourses within the plan boundary, however, drain to the Pacific Ocean.

If you have any domestic water supply in the identified area, please identify the location on the provided map and respond either in writing, email or by telephone within ten days of the post-marked date of this letter. If domestic water supplies are noted, the THP will address and contain mitigations necessary to protect those water supplies.

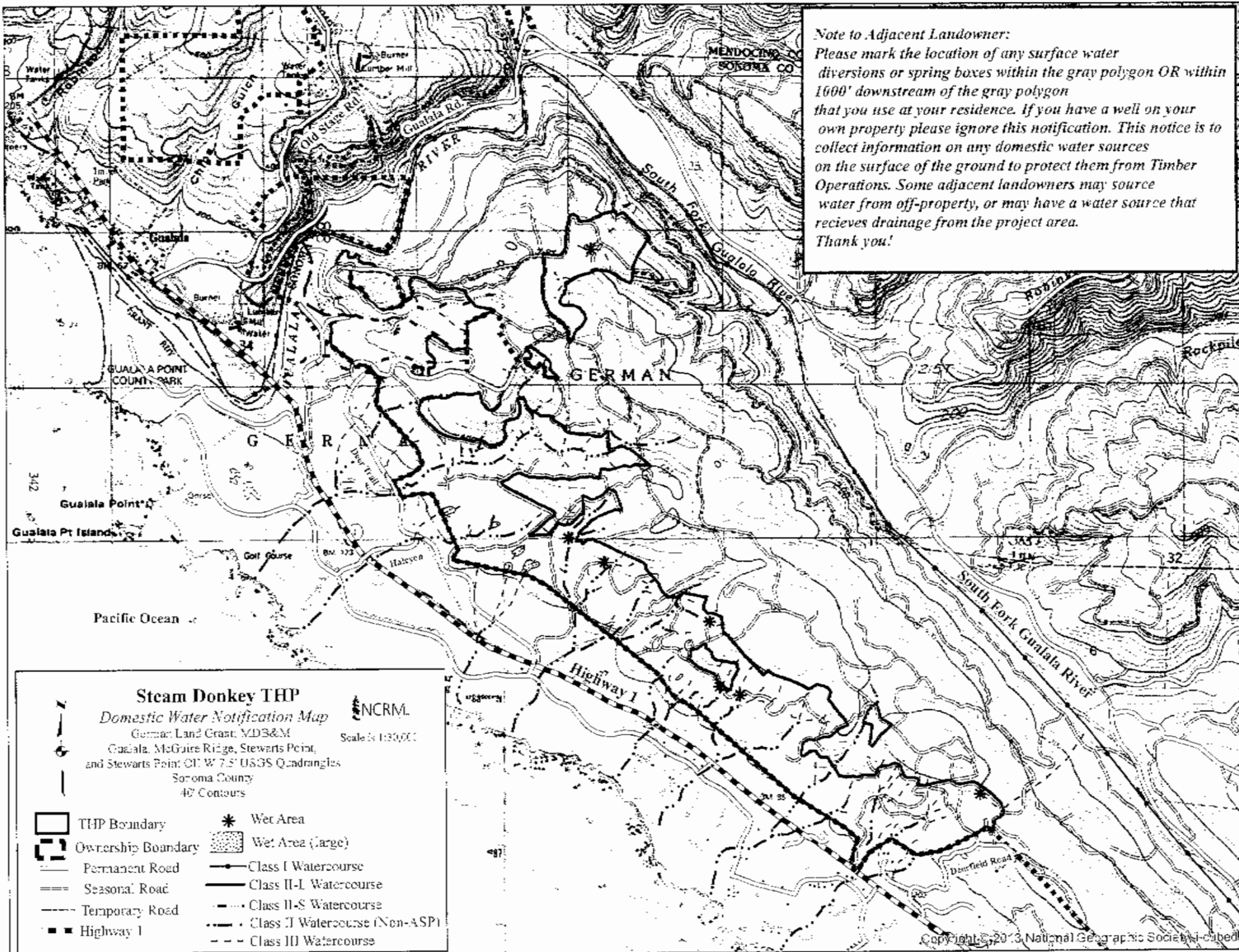
Thank you for your assistance.

Sincerely,



Madeline Green
Forester, NCRM, Inc.
RPF #3069

Attachments: Steam Donkey THP Domestic Water Notification Map



Note to Adjacent Landowner:
 Please mark the location of any surface water diversions or spring boxes within the gray polygon OR within 1600' downstream of the gray polygon that you use at your residence. If you have a well on your own property please ignore this notification. This notice is to collect information on any domestic water sources on the surface of the ground to protect them from Timber Operations. Some adjacent landowners may source water from off-property, or may have a water source that receives drainage from the project area. Thank you!

Steam Donkey THP
Domestic Water Notification Map
 German Land Grant, MDB&M
 Gualala, McGuire Ridge, Stewarts Point,
 and Stewarts Point of W 7.5' USGS Quadrangles
 Soroma County
 40' Contours

Scale is 1:30,000

Legend:

THP Boundary	Wet Area
Ownership Boundary	Wet Area (large)
Permanent Road	Class I Watercourse
Seasonal Road	Class II-L Watercourse
Temporary Road	Class II-S Watercourse
Highway 1	Class III Watercourse (Non-ASP)
	Class III Watercourse

April 24, 2022

Independent Coast Observer
Public Notice Legal Ad
PO Box 1200
Gualala, CA 95445

Dear Independent Coast Observer,

Please run the following legal publication notice in your newspaper for one (1) day only:

*****NOTICE*****

Gualala Redwood Timber, LLC is in the process of submitting a Timber Harvest Plan (THP) within the Mouth of Gualala, Black Point and Big Pepperwood Creek Planning Watersheds. The proposed project is located within the northern portions of the German Landgrant/Rancho, MDBM, located within the USGS 7.5' Quadrangles of Gualala, McGuire Ridge, Stewarts Point and Stewarts Point OE W. Some watercourses interior to the plan flow downstream to the South Fork Gualala River and the mainstem Gualala River which drains into the Pacific Ocean just south of the town of Gualala, CA (1.5 miles northwest of plan area). Most of the other watercourses in the plan flow downstream to the west and are unnamed tributaries to the Pacific Ocean. If you have knowledge of any domestic water supply(ies), whose source is the before mentioned watercourse or whose source may be affected by the proposed operations, please contact the following person in writing within ten (10) days of the date of this notice, at the following address: Madeline Green, NCRM, Inc., 2501 North State Street, Ukiah, CA 95482.

Date Published:

Please send the "Proof of Publication" to the address stated on the notice. Invoicing may be sent to:

*North Coast Resource Management, Inc.
2501 N State Street
Ukiah, CA 95482*

Thanks for your time in this manner.

Sincerely,

Madeline Green

Madeline Green
North Coast Resource Management, Inc.
(707) 489-5195

Independent Coast Observer

P.O. Box 1200
Gualala, CA 95445

(707) 884-3501
(707) 884-1710 fax
www.mendonoma.com


Proof of Publication of NOTICE OF TIMBER HARVEST PLAN

I, the undersigned say:

That I am over the age of eighteen and am not a party to or interested in the above entitled matter of proceeding; and am, and at all times embraced in the publication herein mentioned, was the principal clerk of the editor and publisher of the INDEPENDENT COAST OBSERVER, a weekly newspaper printed, published and circulated in the County of Mendocino, and adjudged a newspaper of general circulation by the Superior Court of California, Proceeding #15294, that the above NOTICE OF TIMBER HARVEST PLAN of which is annexed a true printed copy, was printed in type not smaller than nonpareil and published in said newspaper on the following date(s), to wit: April 28, 2023.

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

Executed and dated at Gualala, California, this April 27, 2023

Signature  _____

(ICO Ad number 7920)

Public Notice

NOTICE OF TIMBER HARVEST PLAN

Gualala Redwood Timber, LLC is in the process of submitting a Timber Harvest Plan (THP) within the Mouth of Gualala, Black Point and Big Pepperwood Creek Planning Watersheds. The proposed project is located within the northern portions of the German Land-grant/Rancho, MDBM, located within the USGS 7.5' Quadrangles of Gualala, McGuire Ridge, Stewarts Point and Stewarts Point OE W. Some watercourses interior to the plan flow downstream to the South Fork Gualala River and the mainstem Gualala River which drains into the Pacific Ocean just south of the town of Gualala, CA (1.5 miles northwest of plan area). Most of the other watercourses in the plan flow downstream to the west and are unnamed tributaries to the Pacific Ocean. If you have knowledge of any domestic water supply(ies), whose source is the before mentioned watercourse or whose source may be affected by the proposed operations, please contact the following person in writing within ten (10) days of the date of this notice, at the following address: Madeline Green, NCRM, Inc., 2501 North State Street, Ukiah, CA 95482.

(7920) April 28, 2023

Steam Donkey THP

GRT Watershed Landslide Inventory Reports

357.1

Additional Page
2/5/2024

PART OF PLAN

Landslides*

Planning Watershed Big Pepperwood Creek

Map#	ID #	Inspector	Year**	Source	Slide Type	Slope Type	Slope Form	Association	Slope	Stream	Total Yds	Delivered
5	5	Best CEG	1984	Photos	Skid Trail	Headwall Swale	Divergent	Mgt. Relate	85+	NA	389	97
17	17	Best CEG	1984	Photos	Road	Headwall Swale	Convergent	Mgt. Relate	75-84	NA	889	222
18	18	Best CEG	1984	Photos	Road	Headwall Swale	Convergent	Mgt. Relate	65-74	NA	889	222
19	19	Best CEG	1984	Photos	Road	Headwall Swale	Convergent	Mgt. Relate	30-49	NA	389	194
25	25	Best CEG	1984	Photos	Road	Headwall Swale	Convergent	Mgt. Relate	65-74	NA	889	222
26	26	Best CEG	1984	Photos	Road	Headwall Swale	Convergent	Mgt. Relate	65-74	NA	889	222
40	40	Best CEG	1970	Photos	Skid Trail	Headwall Swale	Convergent	Mgt. Relate	50-64	NA	389	97
41	41	Best CEG	1970	Photos	Skid Trail	Headwall Swale	Convergent	Mgt. Relate	30-49	NA	889	222
48	48	Best CEG	1959	Photos	Skid Trail	Headwall Swale	Convergent	Mgt. Relate	65-74	NA	4,074	3,055
56	56	Best CEG	1998	Photos	Road	Headwall Swale	Convergent	Mgt. Relate	0-29	NA	7,778	5,833
75	75	Best CEG	1984	Photos	Hill Slope	Headwall Swale	Convergent	Natural	50-64	NA	222	55
81	81	Best CEG	1930	Photos	Hill Slope	Headwall Swale	Convergent	Natural	0-29	NA	1,481	1,110
82	82	Best CEG	1930	Photos	Hill Slope	Headwall Swale	Convergent	Natural	0-29	NA	1,481	1,110
92	92	Best CEG	1947	Photos	Hill Slope	Headwall Swale	Convergent	Natural	0-29	NA	648	486
99	99	Best CEG	1930	Photos	Hill Slope	Headwall Swale	Convergent	Natural	0-29	NA	6,519	4,888
100	100	Best CEG	1930	Photos	Hill Slope	Headwall Swale	Convergent	Natural	0-29	NA	11,852	8,889
101	101	Best CEG	1930	Photos	Hill Slope	Headwall Swale	Convergent	Natural	0-29	NA	11,852	8,889
119	119	Best CEG	1970	Photos	Skid Trail	Headwall Swale	Convergent	Mgt. Relate	30-49	NA	6,519	1,629
154	154	Best CEG	1970	Photos	Skid Trail	Inner Gorge	Divergent	Mgt. Relate	0-29	Ukn	1,481	1,110
172	172	Best CEG	1959	Photos	Skid Trail	Inner Gorge	Plannar	Mgt. Relate	30-49	NA	1,481	740
173	173	Best CEG	1959	Photos	Skid Trail	Inner Gorge	Plannar	Mgt. Relate	50-64	NA	648	324
174	174	Best CEG	1959	Photos	Skid Trail	Inner Gorge	Plannar	Mgt. Relate	50-64	NA	1,481	1,110
186	186	Best CEG	1959	Photos	Skid Trail	Inner Gorge	Plannar	Mgt. Relate	75-84	NA	11,852	8,889
187	187	Best CEG	1959	Photos	Skid Trail	Inner Gorge	Plannar	Mgt. Relate	65-74	NA	18,519	13,888
189	189	Best CEG	1998	Photos	Stream Bank Failure	Inner Gorge	Convergent	Natural	65-74	NA	222	166
190	190	Best CEG	1998	Photos	Stream Bank Failure	Inner Gorge	Convergent	Natural	85+	NA	389	292
191	191	Best CEG	1998	Photos	Road	Headwall Swale	Convergent	Mgt. Relate	65-74	NA	1,778	1,333
233	233	Best CEG	1998	Photos	Hill Slope	Inner Gorge	Convergent	Natural	85+	NA	67	49
240	240	Best CEG	1959	Photos	Hill Slope	Inner Gorge	Convergent	Natural	65-74	NA	222	111
252	252	Best CEG	1959	Photos	Hill Slope	Inner Gorge	Divergent	Natural	85+	Ukn	4,074	3,055
255	255	Best CEG	1984	Photos	Hill Slope	Inner Gorge	Divergent	Natural	75-84	Ukn	222	166
256	256	Best CEG	1998	Photos	Hill Slope	Inner Gorge	Divergent	Natural	65-74	NA	67	16
262	262	Best CEG	1970	Photos	Stream Bank Failure	Inner Gorge	Plannar	Natural	75-84	Ukn	648	486
265	265	Best CEG	1970	Photos	Stream Bank Failure	Inner Gorge	Plannar	Natural	50-64	Ukn	1,481	1,110
266	266	Best CEG	1959	Photos	Stream Bank Failure	Inner Gorge	Plannar	Natural	0-29	Ukn	2,370	1,777
267	267	Best CEG	1959	Photos	Stream Bank Failure	Inner Gorge	Plannar	Natural	65-74	Ukn	6,519	4,888
289	289	Best CEG	1959	Photos	Hill Slope	Inner Gorge	Plannar	Natural	30-49	NA	1,481	1,110
293	293	Best CEG	1970	Photos	Stream Bank Failure	Inner Gorge		Natural	65-74	Ukn	648	486
294	294	Best CEG	1970	Photos	Stream Bank Failure	Inner Gorge		Natural	50-64	Ukn	648	486
295	295	Best CEG	1959	Photos	Stream Bank Failure	Inner Gorge		Natural	85+	Ukn	648	486
297	297	Best CEG	1947	Photos	Hill Slope	Inner Gorge		Natural	0-29	Ukn	389	292
298	298	Best CEG	1947	Photos	Hill Slope	Inner Gorge		Natural	30-49	NA	389	97
304	304	Best CEG	1970	Photos	Landing	Inner Gorge	Plannar	Mgt. Relate	0-29	Ukn	4,074	3,055
307	307	Best CEG	1970	Photos	Hill Slope	Inner Gorge	Plannar	Natural	30-49	Ukn	1,481	1,110
314	314	Best CEG	1984	Photos	Road	Inner Gorge	Convergent	Mgt. Relate	65-74	Ukn	370	277
339	339	Best CEG	1970	Photos	Road	Inner Gorge	Convergent	Mgt. Relate	0-29	NA	1,481	370
341	341	Best CEG	1959	Photos	Road	Inner Gorge	Convergent	Mgt. Relate	50-64	Ukn	648	486
349	349	Best CEG	1984	Photos	Road	Inner Gorge	Convergent	Mgt. Relate	65-74	NA	1,037	777
360	360	Best CEG	1959	Photos	Road	Inner Gorge	Divergent	Mgt. Relate	50-64	NA	389	292

PART OF PLAN

Planning Watershed *Big Pepperwood Creek*

Map#	ID #	Inspector	Year**	Source	Slide Type	Slope Type	Slope Form	Association	Slope	Stream	Total Yds	Delivered
365	365	Best CEG	1998	Photos	Road	Inner Gorge	Divergent	Mgt. Relate	50-64	NA	389	194
387	387	Best CEG	1984	Photos	Road	Inner Gorge	Plannar	Mgt. Relate	75-84	Ukn	14,444	10,833
388	388	Best CEG	1984	Photos	Road	Inner Gorge	Plannar	Mgt. Relate	0-29	Ukn	12,963	9,722
396	396	Best CEG	1970	Photos	Road	Inner Gorge	Plannar	Mgt. Relate	75-84	NA	389	97
406	406	Best CEG	1984	Photos	Road	Inner Gorge	Plannar	Mgt. Relate	75-84	Ukn	1,481	1,110
409	409	Best CEG	1970	Photos	Road	Inner Gorge	Plannar	Mgt. Relate	50-64	NA	4,074	2,037
417	417	Best CEG	1970	Photos	Skid Trail	Inner Gorge	Convergent	Mgt. Relate	30-49	Ukn	389	292
418	418	Best CEG	1959	Photos	Skid Trail	Inner Gorge	Convergent	Mgt. Relate	50-64	NA	67	49
429	429	Best CEG	1984	Photos	Skid Trail	Inner Gorge	Convergent	Mgt. Relate	50-64	Ukn	370	277
430	430	Best CEG	1959	Photos	Skid Trail	Inner Gorge	Convergent	Mgt. Relate	75-84	NA	370	92
435	435	Best CEG	1970	Photos	Skid Trail	Inner Gorge	Convergent	Mgt. Relate	50-64	Ukn	1,037	777
436	436	Best CEG	1970	Photos	Skid Trail	Inner Gorge	Convergent	Mgt. Relate	65-74	Ukn	2,370	1,777
440	440	Best CEG	1959	Photos	Skid Trail	Inner Gorge	Convergent	Mgt. Relate	50-64	Ukn	222	166
443	443	Best CEG	1970	Photos	Skid Trail	Inner Gorge	Convergent	Mgt. Relate	85+	Ukn	222	166
446	446	Best CEG	1970	Photos	Skid Trail	Inner Gorge	Convergent	Mgt. Relate	50-64	Ukn	389	292
449	449	Best CEG	1984	Photos	Skid Trail	Inner Gorge	Convergent	Mgt. Relate	75-84	NA	389	292
451	451	Best CEG	1998	Photos	Skid Trail	Inner Gorge	Convergent	Mgt. Relate	85+	NA	389	97
468	468	Best CEG	1970	Photos	Skid Trail	Inner Gorge	Convergent	Mgt. Relate	85+	Ukn	1,481	1,110
469	469	Best CEG	1970	Photos	Skid Trail	Inner Gorge	Convergent	Mgt. Relate	85+	Ukn	1,481	1,110
470	470	Best CEG	1984	Photos	Skid Trail	Inner Gorge	Convergent	Mgt. Relate	75-84	Ukn	370	185
471	471	Best CEG	1959	Photos	Skid Trail	Inner Gorge	Convergent	Mgt. Relate	85+	Ukn	370	277
475	475	Best CEG	1970	Photos	Skid Trail	Inner Gorge	Convergent	Mgt. Relate	50-64	Ukn	648	324
476	476	Best CEG	1984	Photos	Skid Trail	Inner Gorge	Convergent	Mgt. Relate	75-84	Ukn	4,074	3,055
485	485	Best CEG	1970	Photos	Skid Trail	Inner Gorge	Convergent	Mgt. Relate	30-49	Ukn	2,370	1,185
486	486	Best CEG	1984	Photos	Skid Trail	Inner Gorge	Divergent	Mgt. Relate	50-64	Ukn	67	49
487	487	Best CEG	1959	Photos	Skid Trail	Inner Gorge	Divergent	Mgt. Relate	50-64	NA	222	111
493	493	Best CEG	1970	Photos	Skid Trail	Inner Gorge	Divergent	Mgt. Relate	65-74	Ukn	1,481	1,110
494	494	Best CEG	1970	Photos	Skid Trail	Inner Gorge	Divergent	Mgt. Relate	50-64	Ukn	648	486
498	498	Best CEG	1970	Photos	Skid Trail	Inner Gorge	Divergent	Mgt. Relate	30-49	Ukn	389	292
501	501	Best CEG	1959	Photos	Skid Trail	Inner Gorge	Divergent	Mgt. Relate	0-29	Ukn	222	166
502	502	Best CEG	1959	Photos	Skid Trail	Inner Gorge	Divergent	Mgt. Relate	50-64	Ukn	222	166
503	503	Best CEG	1959	Photos	Skid Trail	Inner Gorge	Divergent	Mgt. Relate	0-29	Ukn	222	166
525	525	Best CEG	1970	Photos	Skid Trail	Inner Gorge	Divergent	Mgt. Relate	30-49	Ukn	648	486
526	526	Best CEG	1970	Photos	Skid Trail	Inner Gorge	Divergent	Mgt. Relate	65-74	Ukn	648	486
527	527	Best CEG	1970	Photos	Skid Trail	Inner Gorge	Divergent	Mgt. Relate	75-84	Ukn	1,481	1,110
528	528	Best CEG	1970	Photos	Skid Trail	Inner Gorge	Divergent	Mgt. Relate	30-49	Ukn	1,481	1,110
530	530	Best CEG	1959	Photos	Skid Trail	Inner Gorge	Divergent	Mgt. Relate	50-64	Ukn	370	277
531	531	Best CEG	1959	Photos	Skid Trail	Inner Gorge	Divergent	Mgt. Relate	30-49	Ukn	648	486
540	540	Best CEG	1959	Photos	Skid Trail	Inner Gorge	Plannar	Mgt. Relate	65-74	NA	222	166
542	542	Best CEG	1970	Photos	Skid Trail	Inner Gorge	Plannar	Mgt. Relate	50-64	Ukn	648	486
543	543	Best CEG	1970	Photos	Skid Trail	Inner Gorge	Plannar	Mgt. Relate	50-64	Ukn	648	324
547	547	Best CEG	1970	Photos	Skid Trail	Inner Gorge	Plannar	Mgt. Relate	50-64	NA	889	444
548	548	Best CEG	1959	Photos	Skid Trail	Inner Gorge	Plannar	Mgt. Relate	30-49	Ukn	222	166
551	551	Best CEG	1970	Photos	Skid Trail	Inner Gorge	Plannar	Mgt. Relate	75-84	Ukn	389	292
569	569	Best CEG	1970	Photos	Skid Trail	Inner Gorge	Plannar	Mgt. Relate	0-29	NA	1,481	370
570	570	Best CEG	1970	Photos	Skid Trail	Inner Gorge	Plannar	Mgt. Relate	30-49	Ukn	648	486
571	571	Best CEG	1959	Photos	Skid Trail	Inner Gorge	Plannar	Mgt. Relate	65-74	Ukn	648	486
572	572	Best CEG	1970	Photos	Skid Trail	Inner Gorge	Plannar	Mgt. Relate	65-74	Ukn	1,481	1,110
586	586	Best CEG	1959	Photos	Hill Slope	Inner Gorge	Convergent	Natural	50-64	Ukn	4,074	3,055
591	591	Best CEG	1959	Photos	Hill Slope	Inner Gorge	Convergent	Natural	50-64	Ukn	889	444
592	592	Best CEG	1959	Photos	Hill Slope	Inner Gorge	Convergent	Natural	75-84	NA	2,444	611
596	596	Best CEG	1959	Photos	Hill Slope	Inner Gorge	Convergent	Natural	50-64	NA	1,481	740
603	603	Best CEG	1959	Photos	Hill Slope	Inner Gorge	Divergent	Natural	50-64	Ukn	1,481	1,110
608	608	Best CEG	1970	Photos	Hill Slope	Inner Gorge	Plannar	Natural		Ukn	16,898	8,448

PART OF PLAN

Planning Watershed *Big Pepperwood Creek*

Map#	ID #	Inspector	Year**	Source	Slide Type	Slope Type	Slope Form	Association	Slope	Stream	Total Yds	Delivered
615	615	Best CEG	1959	Photos	Hill Slope	Inner Gorge	Plannar	Natural	50-64	Ukn	1,481	1,110
616	616	Best CEG	1970	Photos	Hill Slope	Inner Gorge		Natural	0-29	Ukn	222	166
617	617	Best CEG	1970	Photos	Hill Slope	Inner Gorge		Natural	50-64	Ukn	222	166
625	625	Best CEG	1984	Photos	Road	Inner Gorge	Convergent	Mgt. Relate	30-49	Ukn	389	292
627	627	Best CEG	1984	Photos	Road	Inner Gorge	Convergent	Mgt. Relate	50-64	NA	648	486
631	631	Best CEG	1984	Photos	Road	Inner Gorge	Divergent	Mgt. Relate	0-29	Ukn	370	277
636	636	Best CEG	1984	Photos	Road	Inner Gorge	Plannar	Mgt. Relate	0-29	Ukn	389	292
645	645	Best CEG	1984	Photos	Skid Trail	Inner Gorge	Convergent	Mgt. Relate		Ukn	1,527	763
656	656	Best CEG	1970	Photos	Skid Trail	Inner Gorge	Convergent	Mgt. Relate	65-74	Ukn	1,481	1,110
657	657	Best CEG	1984	Photos	Skid Trail	Inner Gorge	Convergent	Mgt. Relate	50-64	NA	648	486
661	661	Best CEG	1970	Photos	Skid Trail	Inner Gorge	Convergent	Mgt. Relate	50-64	Ukn	2,370	1,185
669	669	Best CEG	1970	Photos	Skid Trail	Inner Gorge	Divergent	Mgt. Relate	30-49	Ukn	648	486
670	670	Best CEG	1970	Photos	Skid Trail	Inner Gorge	Divergent	Mgt. Relate	65-74	Ukn	648	486
677	677	Best CEG	1984	Photos	Skid Trail	Inner Gorge	Plannar	Mgt. Relate	85+	Ukn	222	166
710	710	Best CEG	1998	Photos	Road		Divergent	Mgt. Relate	65-74	NA	67	16
720	720	Best CEG	1959	Photos	Skid Trail		Convergent	Mgt. Relate	65-74	NA	648	486
724	724	Best CEG	1998	Photos	Stream Bank Failure		Convergent	Natural	50-64	NA	67	16
727	727	Best CEG	1998	Photos	Stream Bank Failure		Divergent	Natural	85+	NA	67	16
731	731	Best CEG	1959	Photos	Stream Bank Failure		Plannar	Natural	65-74	NA	1,481	740
734	734	Best CEG	1959	Photos	Stream Bank Failure		Plannar	Natural	0-29	NA	2,370	1,185
735	735	Best CEG	1970	Photos	Stream Bank Failure			Natural	0-29	Ukn	6,519	4,888
740	740	Best CEG	1970	Photos	Road		Convergent	Mgt. Relate	50-64	NA	389	97
741	741	Best CEG	1970	Photos	Road		Convergent	Mgt. Relate	50-64	NA	222	55
750	750	Best CEG	1984	Photos	Skid Trail		Plannar	Mgt. Relate	50-64	NA	222	55
754	754	Best CEG	1947	Photos	Hill Slope		Convergent	Natural	50-64	Ukn	222	166
767	767	Best CEG	1998	Photos	Hill Slope		Convergent	Natural	50-64	NA	67	33
768	768	Best CEG	1998	Photos	Hill Slope		Convergent	Natural	30-49	NA	67	33
785	785	Best CEG	1984	Photos	Stream Bank Failure		Plannar	Natural	0-29	Ukn	648	486
786	786	Best CEG	1984	Photos	Stream Bank Failure		Plannar	Natural	30-49	Ukn	648	486
797	797	Best CEG	1998	Photos	Hill Slope		Plannar	Natural	85+	NA	67	16
817	817	Best CEG	1984	Photos	Road		Convergent	Mgt. Relate	85+	NA	389	97
834	834	Best CEG	1984	Photos	Road		Divergent	Mgt. Relate	50-64	NA	389	194
839	839	Best CEG	1984	Photos	Road		Divergent	Mgt. Relate	50-64	NA	889	222
850	850	Best CEG	1984	Photos	Road		Divergent	Mgt. Relate	50-64	NA	1,481	740
851	851	Best CEG	1984	Photos	Road		Divergent	Mgt. Relate	50-64	NA	1,481	370
852	852	Best CEG	1984	Photos	Road		Divergent	Mgt. Relate	50-64	NA	648	162
853	853	Best CEG	1984	Photos	Road		Divergent	Mgt. Relate	75-84	Ukn	648	324
864	864	Best CEG	1984	Photos	Road		Plannar	Mgt. Relate	30-49	NA	2,444	611
882	882	Best CEG	1959	Photos	Skid Trail		Convergent	Mgt. Relate	30-49	NA	67	49
892	892	Best CEG	1970	Photos	Skid Trail		Convergent	Mgt. Relate	30-49	NA	648	486
893	893	Best CEG	1970	Photos	Skid Trail		Convergent	Mgt. Relate	65-74	Ukn	648	486
903	903	Best CEG	1970	Photos	Skid Trail		Convergent	Mgt. Relate	50-64	Ukn	6,519	4,888
915	915	Best CEG	1998	Photos	Skid Trail		Convergent	Mgt. Relate	85+	NA	67	33
916	916	Best CEG	1998	Photos	Skid Trail		Convergent	Mgt. Relate	75-84	NA	67	49
931	931	Best CEG	1970	Photos	Skid Trail		Convergent	Mgt. Relate	65-74	NA	1,481	740
932	932	Best CEG	1970	Photos	Skid Trail		Convergent	Mgt. Relate	75-84	Ukn	648	486
940	940	Best CEG	1984	Photos	Skid Trail		Convergent	Mgt. Relate	30-49	NA	648	324
942	942	Best CEG	1984	Photos	Skid Trail		Convergent	Mgt. Relate	85+	NA	648	486
956	956	Best CEG	1970	Photos	Skid Trail		Divergent	Mgt. Relate	50-64	NA	389	97
964	964	Best CEG	1959	Photos	Skid Trail		Divergent	Mgt. Relate	30-49	NA	222	55
998	998	Best CEG	1984	Photos	Skid Trail		Divergent	Mgt. Relate	30-49	NA	648	324
1019	1019	Best CEG	1970	Photos	Skid Trail		Plannar	Mgt. Relate	65-74	NA	389	194
1047	1047	Best CEG	1984	Photos	Skid Trail		Plannar	Mgt. Relate	30-49	NA	648	324
1050	1050	Best CEG	1970	Photos	Skid Trail			Mgt. Relate	30-49	Ukn	2,444	1,833

PART OF PLAN

Planning Watershed *Big Pepperwood Creek*

Map#	ID #	Inspector	Year**	Source	Slide Type	Slope Type	Slope Form	Association	Slope	Stream	Total Yds	Delivered
1051	1051	Best CEG	1970	Photos	Skid Trail			Mgt. Relate	30-49	Ukn	2,444	1,833
1052	1052	Best CEG	1970	Photos	Skid Trail			Mgt. Relate	50-64	Ukn	2,444	1,833
1054	1054	Best CEG	1970	Photos	Skid Trail			Mgt. Relate	0-29	Ukn	1,481	1,110
1058	1058	Best CEG	1998	Photos	Hill Slope		Convergent	Natural	85+	NA	67	33
1060	1060	Best CEG	1970	Photos	Hill Slope		Convergent	Natural	30-49	Ukn	648	486
1067	1067	Best CEG	1970	Photos	Hill Slope		Plannar	Natural	65-74	NA	389	292
1088	1088	Best CEG	1970	Photos	Stream Bank Failure		N/A	Natural		Ukn	6,471	4,853
1098	1098	Best CEG	1900	Photos	Translational Slide		N/A	Natural		NA	9,010,298	0
1100	1100	Best CEG	1959	Photos	Road		Convergent	Mgt. Relate	30-49	Ukn	67	33
1103	1103	Best CEG	1959	Photos	Road		Plannar	Mgt. Relate	50-64	Ukn	889	444
1104	1104	Best CEG	1959	Photos	Road		Plannar	Mgt. Relate	65-74	Ukn	67	16
1105	1105	Best CEG	1959	Photos	Road		Plannar	Mgt. Relate	50-64	Ukn	67	16
1143	1143	Best CEG	1970	Photos	Hill Slope		Convergent	Natural	50-64	NA	5,926	0
1144	1144	Best CEG	1970	Photos	Hill Slope		Convergent	Natural	30-49	NA	5,926	0
1150	1150	Best CEG	1970	Photos	Hill Slope		Plannar	Natural	65-74	NA	222	166
1169	1169	Best CEG	1900	Photos	Translational Slide		N/A	Natural		NA	119,194	0
1170	1170	Best CEG	1900	Photos	Translational Slide		N/A	Natural		NA	169,366	0
1195	1195	Best CEG	1900	Photos	Translational Slide		N/A	Natural		NA	2,125,677	0
1196	1196	Best CEG	1900	Photos	Translational Slide		N/A	Natural		NA	590,261	0
1197	1197	Best CEG	1900	Photos	Translational Slide		N/A	Natural		NA	224,662	0
1198	1198	Best CEG	1900	Photos	Translational Slide		N/A	Natural		NA	184,370	0
1199	1199	Best CEG	1900	Photos	Translational Slide		N/A	Natural		NA	339,888	0
1209	1209	Best CEG	1900	Photos	Translational Slide		N/A	Natural		NA	208,882	0
1210	1210	Best CEG	1900	Photos	Translational Slide		N/A	Natural		NA	75,912	0
1211	1211	Best CEG	1900	Photos	Translational Slide		N/A	Natural		NA	181,924	0
1212	1212	Best CEG	1900	Photos	Translational Slide		N/A	Natural		NA	200,166	0
1213	1213	Best CEG	1900	Photos	Translational Slide		N/A	Natural		NA	1,092,839	0
1245	1245	Best CEG	1900	Photos	Translational Slide		N/A	Natural		NA	215,941	0
1247	1247	Best CEG	1900	Photos	Translational Slide		N/A	Natural		NA	387,987	0
1248	1248	Best CEG	1900	Photos	Translational Slide		N/A	Natural	30-49	NA	29,630	0
1249	1249	Best CEG	1984	Photos	Stream Bank Failure		N/A	Natural		NA	4,399	3,299
1262	1262	Best CEG	1998	Photos	Road	Headwall Swale	Plannar	Mgt. Relate		NA	648	324
1268	1268	Best CEG	1998	Photos	Road	Inner Gorge	Plannar	Mgt. Relate		NA	389	97
1269	1269	Best CEG	1998	Photos	Hill Slope		Convergent	Natural		NA	2,370	1,777
1277	1277	Best CEG	1998	Photos	Stream Bank Failure		Convergent	Natural		NA	14,052	10,538
1278	1278	Best CEG	1998	Photos	Stream Bank Failure	Inner Gorge	Plannar	Natural		NA	222	111
1279	1279	Best CEG	1998	Photos	Road	Inner Gorge	Plannar	Mgt. Relate		NA	222	111
1280	1280	Best CEG	1998	Photos	Road	Headwall Swale	Convergent	Mgt. Relate		NA	19,641	14,731
1281	1281	Best CEG	1998	Photos	Landing		Convergent	Mgt. Relate		NA	867	433
1282	1282	Best CEG	1998	Photos	Landing		Convergent	Mgt. Relate		NA	119	0
1283	1283	Best CEG	1998	Photos	Stream Bank Failure	Headwall Swale	Convergent	Natural		NA	3,804	1,902
1284	1284	Best CEG	1998	Photos	Road	Headwall Swale	Convergent	Mgt. Relate		NA	648	324
1285	1285	Best CEG	1998	Photos	Road		Plannar	Mgt. Relate		NA	222	111
1286	1286	Best CEG	1998	Photos	Stream Bank Failure		Divergent	Natural		NA	33	8
1299	1299	Best CEG	1998	Photos	Hill Slope	Inner Gorge	Plannar	Natural		NA	222	111
1300	1300	Best CEG	1998	Photos	Hill Slope	Inner Gorge	Plannar	Natural		NA	222	111
1301	1301	Best CEG	1998	Photos	Hill Slope	Inner Gorge	Plannar	Natural		NA	648	324
1302	1302	Best CEG	1998	Photos	Hill Slope	Inner Gorge	Plannar	Natural		NA	648	324
1303	1303	Best CEG	1998	Photos	Stream Bank Failure	Headwall Swale	Convergent	Natural		NA	1,481	740
1304	1304	Best CEG	1998	Photos	Stream Bank Failure	Headwall Swale	Plannar	Natural		NA	33	0
1305	1305	Best CEG	1998	Photos	Road	Headwall Swale	Convergent	Mgt. Relate		NA	648	324
1306	1306	Best CEG	1998	Photos	Hill Slope	Inner Gorge	Plannar	Natural		NA	370	185
1307	1307	Best CEG	1998	Photos	Hill Slope	Inner Gorge	Plannar	Natural		NA	3,223	1,611
1308	1308	Best CEG	1998	Photos	Hill Slope	Inner Gorge	Plannar	Natural		NA	7,152	3,575

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Planning Watershed *Big Pepperwood Creek*

Map#	ID #	Inspector	Year**	Source	Slide Type	Slope Type	Slope Form	Association	Slope	Stream	Total Yds	Delivered
1309	1309	Best CEG	1998	Photos	Stream Bank Failure	Headwall Swale	Convergent	Natural		NA	222	66
1310	1310	Best CEG	1998	Photos	Stream Bank Failure	Headwall Swale	Convergent	Natural		NA	222	66
1311	1311	Best CEG	1998	Photos	Stream Bank Failure	Inner Gorge	Convergent	Natural		NA	389	292
1312	1312	Best CEG	1998	Photos	Stream Bank Failure		Plannar	Natural		NA	33	0
1313	1313	Best CEG	1998	Photos	Stream Bank Failure	Inner Gorge	Plannar	Natural		NA	370	185
1314	1314	Best CEG	1998	Photos	Stream Bank Failure	Inner Gorge	Plannar	Natural		NA	67	33
1315	1315	Best CEG	1998	Photos	Hill Slope	Inner Gorge	Plannar	Natural		NA	370	185
1316	1316	Best CEG	1998	Photos	Stream Bank Failure	Headwall Swale	Convergent	Natural		NA	222	55
1317	1317	Best CEG	1998	Photos	Skid Trail	Headwall Swale	Convergent	Mgt. Relate		NA	370	185
1318	1318	Best CEG	1998	Photos	Stream Bank Failure	Headwall Swale	Convergent	Natural		NA	648	162
1319	1319	Best CEG	1998	Photos	Stream Bank Failure		Plannar	Natural		NA	222	55
1320	1320	Best CEG	1998	Photos	Stream Bank Failure	Inner Gorge	Plannar	Natural		NA	11,740	2,935
1325	1325	Best CEG	1998	Photos	Road	Inner Gorge	Convergent	Mgt. Relate		NA	2,370	1,777
1331	1331	Best CEG	1998	Photos	Road			Mgt. Relate		NA	111	0
1332	1332	Best CEG	1984	Photos	Hill Slope			Natural		NA	22	11
1333	1333	Best CEG	1998	Photos	Hill Slope			Natural		NA	15	7
1334	1334	Best CEG	1998	Photos	Hill Slope			Natural		NA	15	7
1335	1335	Best CEG	1984	Photos	Hill Slope			Natural		NA	222	199
1336	1336	Best CEG	1984	Photos	Hill Slope			Natural		NA	44	0
1337	1337	Best CEG	1900	Photos	Translational Slide			Natural		NA	336,633	0
1338	1338	Best CEG	1998	Photos	Road		Convergent	Mgt. Relate		NA	104	0
1339	1339	Best CEG	1998	Photos	Road		Convergent	Mgt. Relate		NA	89	0
1340	1340	Best CEG	1998	Photos	Road		Convergent	Mgt. Relate		NA	370	296
1341	1341	Best CEG	1984	Photos	Stream Bank Failure	Inner Gorge	Plannar	Natural		NA	4	4
1342	1342	Best CEG	1984	Photos	Stream Bank Failure	Inner Gorge	Plannar	Natural		NA	4	4
1343	1343	Best CEG	1984	Photos	Stream Bank Failure	Inner Gorge	Plannar	Natural		NA	267	53
1344	1344	Best CEG	1984	Photos	Road	Headwall Swale	Convergent	Mgt. Relate		NA	556	277
1346	1346	Best CEG	1984	Photos	Road		Convergent	Mgt. Relate		NA	67	33
1347	1347	Best CEG	1984	Photos	Skid Trail		Convergent	Mgt. Relate		NA	67	33
1348	1348	Best CEG	1998	Photos	Stream Bank Failure	Inner Gorge	Plannar	Natural		NA	44	22
1349	1349	Best CEG	1900	Photos	Translational Slide		N/A	Natural		NA	0	0
1362	1362	Best CEG	1998	Photos	Road	Inner Gorge	Convergent	Mgt. Relate		NA	4,074	1,018
1373	1373	Best CEG	1900	Photos	Translational Slide		N/A	Natural		NA	4,519,913	0
1377	1377	Haschak	1984	Field	Road	Headwall Swale	Convergent	Mgt. Relate	75-84	NA	556	0
1378	1378	Haschak	1900	Field	Hill Slope	Headwall Swale	Convergent	Natural	65-74	III	2,222	555
1379	1379	Haschak	1984	Field	Hill Slope	Headwall Swale	Plannar	Natural	65-74	NA	417	0
1380	1380	Haschak	1984	Field	Hill Slope	Headwall Swale	Plannar	Natural	65-74	NA	417	0
1381	1381	Haschak	1984	Field	Road	Inner Gorge	Convergent	Mgt. Relate	75-84	I	778	0
1400	1400	Haschak	1970	Field	Hill Slope	Inner Gorge	Plannar	Natural	50-64	III	46	41
1401	1401	Haschak	1984	Field	Road		Plannar	Mgt. Relate	50-64	NA	1,736	173
1402	1402	Haschak	1984	Field	Road		Plannar	Mgt. Relate	50-64	NA	23	0
1403	1403	Haschak	1970	Field	Hill Slope		Plannar	Natural	30-49	NA	23	0
1404	1404	Haschak	1947	Field	Hill Slope		Plannar	Natural	30-49	NA	30	0
1405	1405	Haschak	1984	Field	Skid Trail	Inner Gorge	Convergent	Mgt. Relate	50-64	III	625	437
1406	1406	Haschak	1984	Field	Hill Slope		Convergent	Natural	50-64	III	417	291
1407	1407	Haschak	1900	Field	Hill Slope		Plannar	Natural	50-64	II	417	208
1408	1408	Haschak	1984	Field	Stream Bank Failure	Inner Gorge	Plannar	Natural	65-74	II	119	119
1409	1409	Haschak	1998	Field	Stream Bank Failure	Inner Gorge	Plannar	Natural	65-74	II	93	93
1410	1410	Haschak	1984	Field	Stream Bank Failure	Inner Gorge	Plannar	Natural	65-74	II	119	119
1411	1411	Haschak	1998	Field	Hill Slope	Inner Gorge	Plannar	Natural	65-74	II	1,333	1,199
1412	1412	Haschak	1900	Field	Hill Slope		Divergent	Natural	50-64	III	1,481	296
1413	1413	Haschak	1998	Field	Road		Plannar	Mgt. Relate	50-64	III	278	278
1414	1414	Haschak	1970	Field	Skid Trail	Inner Gorge	Plannar	Mgt. Relate	65-74	II	111	55
1415	1415	Haschak	1947	Field	Hill Slope		Plannar	Natural	50-64	NA	400	0

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Map#	ID #	Inspector	Year**	Source	Slide Type	Slope Type	Slope Form	Association	Slope	Stream	Total Yds	Delivered
1441	1441	Fisher	1998	Field	Road	Inner Gorge		Mgt. Relate	30-49	II	200	200
1442	1442	Fisher	1998	Field	Road	Inner Gorge		Mgt. Relate	30-49	II	200	200
1496	1496	Best CEG	1998	Photos	Stream Bank Failure		Plannar	Natural			434	216
1538	1538		0		Unknown			Natural			0	0
1539	1539		0		Unknown			Natural			0	0
1540	1540		0		Unknown			Natural			0	0
1541	1541		0		Unknown			Natural			0	0
1542	1542	Best CEG	1998	Photos	Hill Slope		Convergent	Natural			14,052	10,538
1546	1546		0		Unknown			Natural			0	0
1547	1547		0		Unknown			Natural			0	0
1584	1584	Best CEG	1998	Photos	Road		Plannar	Mgt. Relate			426	212
1586	1586	Best CEG	2004	Photos	Road		Plannar	Mgt. Relate			256	63
1587	1587	Best CEG	2004	Photos	Hill Slope		Plannar	Natural			50	0
1588	1588	Best CEG	2004	Photos	Hill Slope		Plannar	Natural			50	0
1589	1589	Best CEG	2004	Photos	Hill Slope		Plannar	Natural			1,185	592
1590	1590	Best CEG	2004	Photos	Hill Slope		Plannar	Natural			144	0
1592	1592	Best CEG	2004	Photos	Hill Slope		Plannar	Natural			50	0
1612	1612	Best CEG	1998	Photos	Hill Slope		Plannar	Natural			144	0
1613	1613	Best CEG	2004	Photos	Stream Bank Failure		Plannar	Natural			144	108
1614	1614	Best CEG	2004	Photos	Stream Bank Failure		Plannar	Natural			256	102
1615	1615	Best CEG	2004	Photos	Hill Slope		Plannar	Natural			50	0
1616	1616	Best CEG	2004	Photos	Hill Slope		Plannar	Natural			50	12
1617	1617	Best CEG	2004	Photos	Hill Slope		Plannar	Natural			256	127
26	1627		0		THP Site, no data			No Info.			0	0
1628	1628		0		THP Site, no data			No Info.			0	0
1629	1629		0		THP Site, no data			No Info.			0	0
1630	1630		0		THP Site, no data			No Info.			0	0
1631	1631		0		THP Site, no data			No Info.			0	0
25	1632		0		THP Site, no data			No Info.			0	0
17	1633		0		THP Site, no data			No Info.			0	0
1634	1634		0		THP Site, no data			No Info.			0	0
1678	1678		0		THP Site, no data			No Info.			0	0
1679	1679		0		THP Site, no data			No Info.			0	0
1680	1680		0		THP Site, no data			No Info.			0	0
1681	1681		0		THP Site, no data			No Info.			0	0
1743	1743		0		THP Site, no data			No Info.			0	0
1744	1744		0		THP Site, no data			No Info.			0	0
1745	1745		0		THP Site, no data			No Info.			0	0
1746	1746		0		THP Site, no data			No Info.			0	0
1748	1748		0		THP Site, no data			No Info.			0	0
1749	1749		0		THP Site, no data			No Info.			0	0
1771	1771		0		THP Site, no data			No Info.			0	0
1772	1772		0		THP Site, no data			No Info.			0	0
1773	1773	Haschak	2010	Field	Road		Convergent	Mgt. Relate	50-64	III	444	444
75	1774	Haschak	1984	Field	Translational Slide		Convergent	Natural	50-64	III	5,556	4,444
1143	1775	Haschak	1901	Field	Hill Slope		Plannar	Natural	65-74	II	333	267
1776	1776	Haschak	1998	Field	Stream Bank Failure		Convergent	Natural	50-64	II	556	556
1777	1777	Haschak	1998	Field	Stream Bank Failure	Inner Gorge	Plannar	Natural	75-84	II	67	67
1778	1778	Haschak	1998	Field	Stream Bank Failure	Inner Gorge	Plannar	Natural	75-84	II	222	222
1779	1779	Haschak	1959	Field	Hill Slope		Plannar	Natural	75-84	NA	2,222	1,111
1780	1780	Haschak	1959	Field	Translational Slide		Plannar	Natural	75-84	NA	8,889	4,444
1781	1781	Haschak	1959	Field	Translational Slide	Inner Gorge	Plannar	Natural	65-74	I	2,500	2,500
1783	1783	Haschak	1984	Field	Translational Slide		Plannar	Natural	50-64	II	1,111	1,111
1784	1784	Haschak	1984	Field	Stream Bank Failure	Inner Gorge	Plannar	Natural	50-64	II	0	0

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Map#	ID #	Inspector	Year**	Source	Slide Type	Slope Type	Slope Form	Association	Slope	Stream	Total Yds	Delivered
1785	1785	Haschak	1984	Field	Stream Bank Failure	Inner Gorge		Natural	50-64		0	0
1800	1800	Haschak	2010	Field	Road		Convergent	Mgt. Relate	50-64	III	625	0
1829	1829	Haschak	2010	Field	Stream Bank Failure	Inner Gorge	Plannar	Natural	75-84	II	556	556
1875	1875	Pehl	1901	Field	THP Site, no data			No Info.			0	
1901	1901	Haschak	1984	Field	Unknown		Plannar	Natural	65-74	NA	333	0
1902	1902	Haschak	1984	Field	Skid Trail		Plannar	Mgt. Relate	50-64	NA	278	83
1903	1903	Haschak	1900	Field	Translational Slide		Plannar	Natural	75-84	III	1,111	0
1904	1904	Haschak	1984	Field	Stream Bank Failure	Inner Gorge	Plannar	Natural	50-64	II	333	167
1905	1905	Haschak	1984	Field	Hill Slope	Inner Gorge	Plannar	Natural	65-74	II	185	185
1906	1906	Haschak	1959	Field	Hill Slope	Inner Gorge		Natural	65-74		625	438
1907	1907	Haschak	1930	Field	Hill Slope	Inner Gorge	Plannar	Natural	65-74	II	1,250	1,125
1908	1908	Haschak	1998	Field	Hill Slope		Plannar	Natural	50-64	NA	296	0
1909	1909	Haschak	1984	Field	Stream Bank Failure	Inner Gorge	Plannar	Natural	85+	II	556	556
1910	1910	Haschak	1970	Field	Stream Bank Failure	Inner Gorge	Plannar	Natural	75-84	I	417	417
1911	1911	Haschak	1998	Field	Stream Bank Failure	Inner Gorge	Plannar	Natural	75-84	I	278	278
1912	1912	Haschak	1984	Field	Skid Trail	Inner Gorge	Plannar	Mgt. Relate	65-74	I	556	444
1913	1913	Haschak	1984	Field	Skid Trail	Inner Gorge	Plannar	Mgt. Relate	65-74	I	556	444
1914	1914	Haschak	1959	Field	Unknown	Inner Gorge	Convergent	Natural	75-84	I	556	556
1915	1915	Haschak	1998	Field	Unknown	Inner Gorge		Natural	65-74		222	222
1917	1917	Haschak	1984	Field	Unknown	Inner Gorge	Plannar	Natural	75-84	II	1,875	1,500
1918	1918	Haschak	1998	Field	Unknown	Inner Gorge	Convergent	Natural	65-74	III	185	185
1920	1920	Haschak	2010	Field	Road	Headwall Swale	Convergent	Mgt. Relate	50-64	III	400	360
1946	1946	Haschak	1959	Field	Unknown	Inner Gorge	Plannar	Natural	65-74	II	347	243
1947	1947	Haschak	2004	Field	Stream Bank Failure	Inner Gorge	Plannar	Natural	75-84	II	278	278
1959	1959	Haschak	1900	Field	Translational Slide		Convergent	Natural	65-74	III	463	231
1960	1960	Haschak	1900	Field	Translational Slide		Convergent	Natural	65-74	III	463	231
1961	1961	Haschak	1984	Field	Hill Slope		Plannar	Natural	50-64	II	44	11
1962	1962	Haschak	1984	Field	Hill Slope	Inner Gorge	Plannar	Natural	50-64	II	556	278
1963	1963	Haschak	1984	Field	Hill Slope		Convergent	Natural	50-64	NA	278	0
1964	1964	Haschak	1984	Field	Hill Slope		Convergent	Natural	65-74	NA	417	
1965	1965	Haschak	1984	Field	Hill Slope		Convergent	Natural	50-64	NA	185	0
1967	1967	Haschak	2010	Field	Translational Slide		Convergent	Natural	50-64	III	6,250	3,125

Summary for 'PW Name' = *Big Pepperwood Creek* (351 detail records)

Delivery Avg 803 Min 0 Max 14,731 Sum 280,346

*Landslide information for this report comes from two main sources, aerial photo analysis or field observations. Information about a landslide is entered into a database and the Slide ID number is entered into GIS and appears on the maps. Information about landslides entered by professionals other than a licensed geologist should be considered as informational until reviewed by a licensed geologist.

**Tim Best, CEG analyzed six sets of aerial photos to identify landslides (1947, 1959, 1970, 1984, 1998 and 2004). The year in this report is usually the year of the photos on which the slide was first observed. If the year is 1900 it means the slide is ancient. If the year is 1930 means the slide was old in the 1947 photos. If the year is 2010 it means the slide occurred after the most recent photos in 2004.

PART OF PLAN

Unstable Areas in the Big Pepperwood Creek PWS

Map Sheet 1 of 3

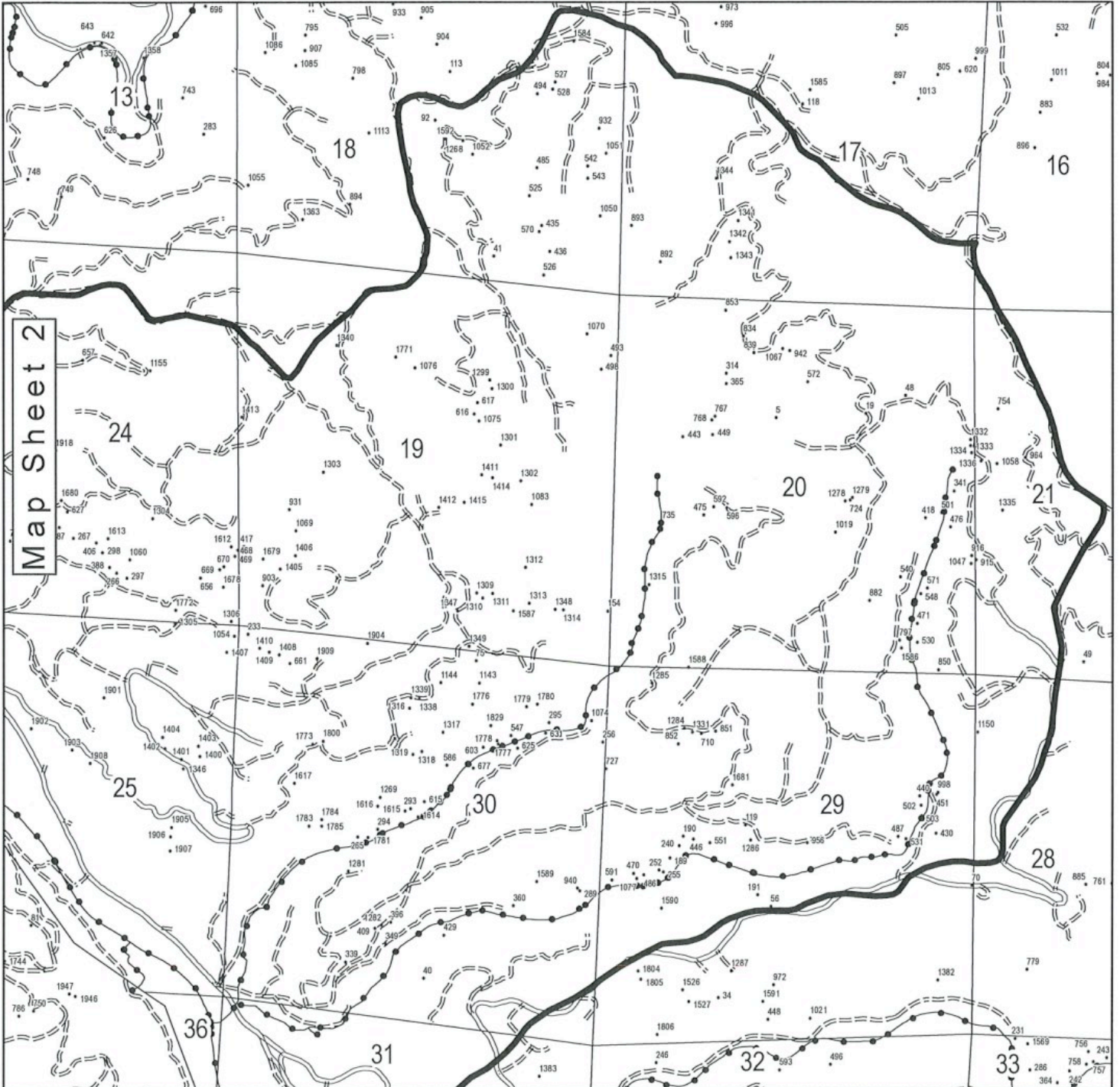
January 23, 2024



0 500 1,000 1,500 2,000 Feet

SCALE 1:24000

- INSTABILITY
- Class I Watercourse
- TRANSPORTATION
- EXISTING PAVED PUBLIC
- EXISTING PRIVATE PERMANENT
- - - - - EXISTING PRIVATE SEASONAL
- ▭ Big Pepperwood Creek PWS



357.9

Additional Page 2/5/2024

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PART OF PLAN

Unstable Areas in the Big Pepperwood Creek PWS

Map Sheet 2 of 3

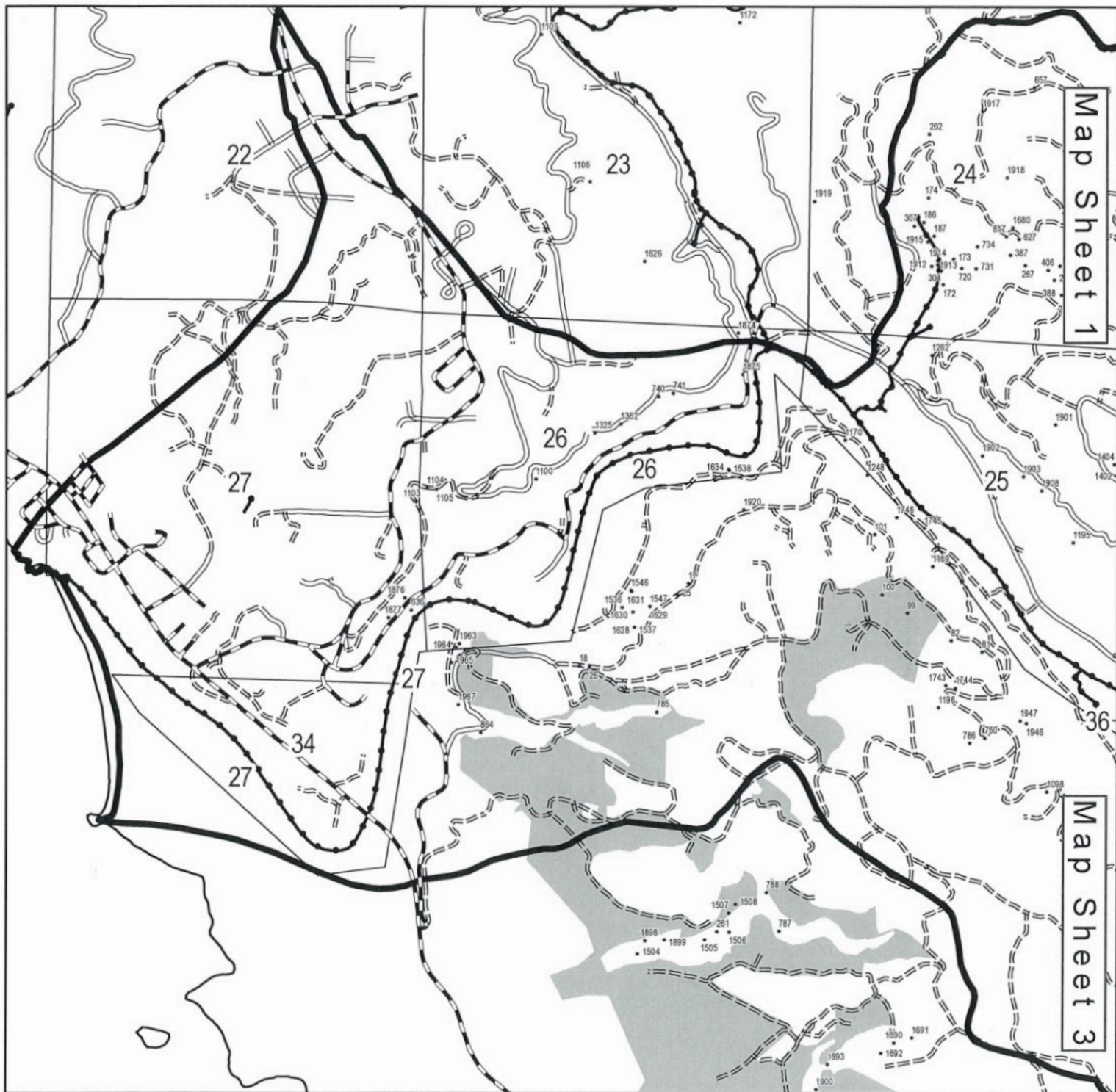
February 15, 2024



0 500 1,000 1,500 2,000 Feet

SCALE 1:24000

- INSTABILITY
- TRANSPORTATION**
 - EXISTING PAVED PUBLIC
 - EXISTING PRIVATE PERMANENT
 - - - EXISTING PRIVATE SEASONAL
- HYDROGRAPHY**
 - Class I
 - ▭ Big Pepperwood Creek PWS
 - ▭ THP BOUNDARY



Map Sheet 1

Map Sheet 3

357.10

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Unstable Areas in the Big Pepperwood Creek PART OF PLAN PWS

Map Sheet 3 of 3

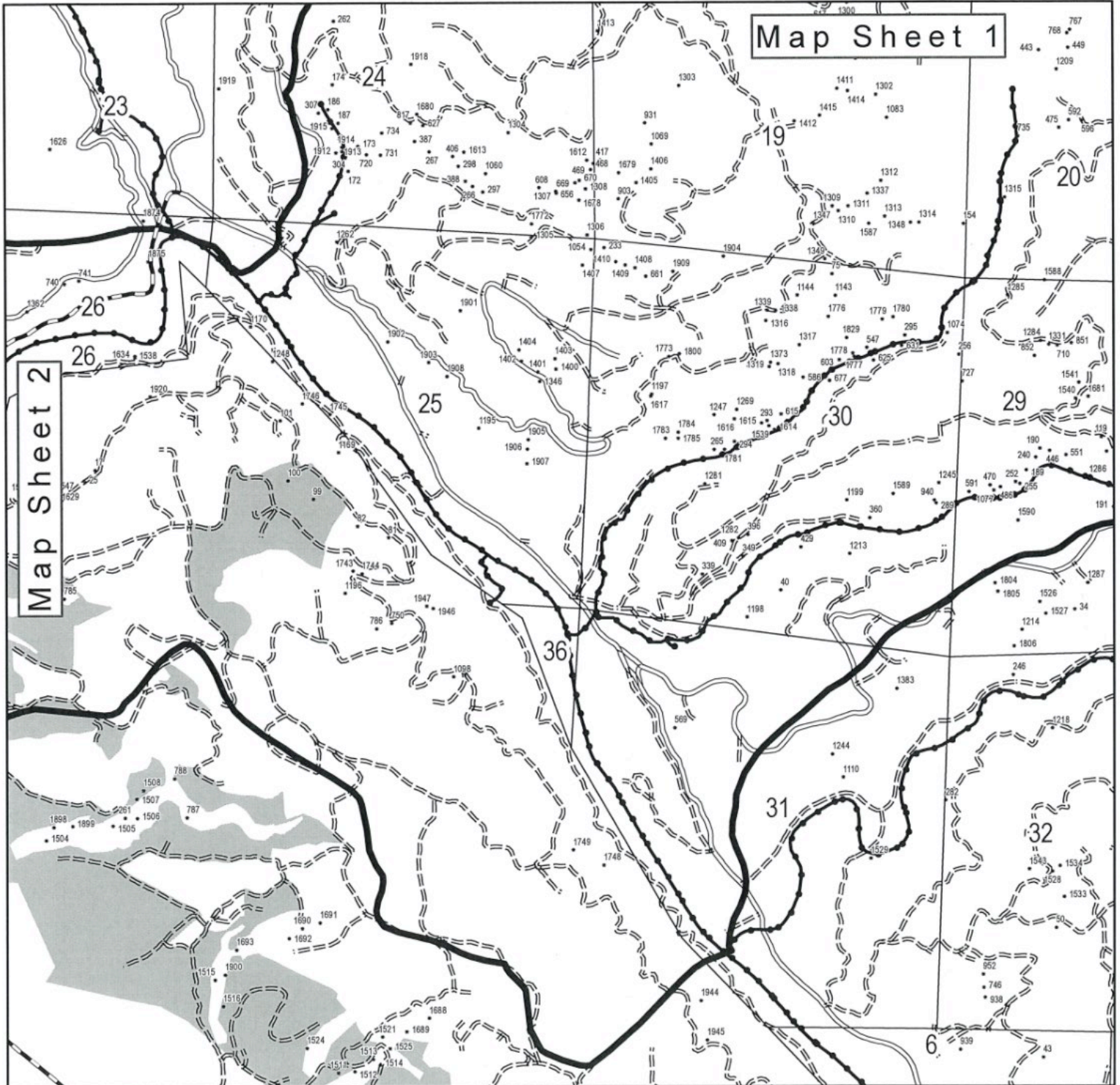
February 15, 2024



0 500 1,000 1,500 2,000 Feet

SCALE 1:24000

- INSTABILITY
- HYDROGRAPHY
 - Class I
- TRANSPORTATION
 - EXISTING PAVED PUBLIC
 - EXISTING PRIVATE PERMANENT
 - EXISTING PRIVATE SEASONAL
- Big Pepperwood Creek PWS
- THP BOUNDARY



357.11

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PART OF PLAN

Landslides*

Planning Watershed Black Point

Map#	ID #	Inspector	Year**	Source	Slide Type	Slope Type	Slope Form	Association	Slope	Stream	Total Yds	Delivered
30	30	Best CEG	1984	Photos	Road	Headwall Swale	Divergent	Mgt. Relate	0-29	NA	222	55
239	239	Best CEG	1959	Photos	Hill Slope	Inner Gorge	Convergent	Natural	0-29	NA	889	444
261	261	Best CEG	1998	Photos	Stream Bank Failure	Inner Gorge	Plannar	Natural	85+	Ukn	222	55
787	787	Best CEG	1984	Photos	Stream Bank Failure		Plannar	Natural	30-49	Ukn	648	486
788	788	Best CEG	1984	Photos	Stream Bank Failure		Plannar	Natural	30-49	Ukn	6,519	4,888
1396	1396	Haschak	1984	Field	Stream Bank Failure	Inner Gorge	Plannar	Natural	50-64	II	194	174
1397	1397	Haschak	1984	Field	Stream Bank Failure	Inner Gorge	Plannar	Natural	50-64	II	46	41
1398	1398	Haschak	1984	Field	Stream Bank Failure	Inner Gorge	Plannar	Natural	65-74	II	30	27
1399	1399	Haschak	1984	Field	Stream Bank Failure	Inner Gorge	Plannar	Natural	50-64	III	56	49
1497	1497	Heath	1970	Field	Hill Slope			Natural	65-74	II	0	0
1498	1498	Heath	1959	Field	Hill Slope			Natural	30-49	II	0	0
1499	1499	Heath	1900	Field	Hill Slope			Natural	75-84	II	0	0
1500	1500	Heath	1900	Field	Hill Slope			Natural	65-74	II	833	624
1501	1501	Heath	1900	Field	Hill Slope			Natural	65-74	II	556	277
1502	1502	Heath	1998	Field	Hill Slope			Natural	65-74	II	1,250	937
1503	1503	Heath	1984	Field	Hill Slope			Natural	75-84	II	0	0
1504	1504	Heath	1984	Field	Hill Slope			Natural	65-74	II	89	17
1505	1505	Heath	1984	Field	Skid Trail			Mgt. Relate	50-64	II	292	218
1506	1506	Heath	1984	Field	Hill Slope			Natural	50-64	II	1,111	555
1507	1507	Heath	1984	Field	Skid Trail			Mgt. Relate	50-64	II	833	624
1508	1508	Heath	1984	Field	Skid Trail			Mgt. Relate	50-64	II	833	624
1509	1509	Heath	1900	Field	Hill Slope			Natural	50-64	II	1,250	937
1510	1510	Heath	1998	Field	Hill Slope			Natural	50-64	II	1,389	694
1511	1511	Heath	1984	Field	Skid Trail			Mgt. Relate	50-64	II	0	0
1512	1512	Heath	1984	Field	Skid Trail			Mgt. Relate	50-64	II	0	0
1513	1513	Heath	1984	Field	Road			Mgt. Relate	50-64	II	148	111
1514	1514	Heath	1984	Field	Road			Mgt. Relate	50-64	II	74	55
1515	1515	Heath	1900	Field	Hill Slope			Natural	50-64	II	694	173
1516	1516	Heath	1984	Field	Hill Slope			Natural	50-64	II	833	208
1517	1517	Haschak	1984	Field	Hill Slope			Natural	50-64	II	1,111	555
1518	1518	Haschak	1959	Field	Hill Slope		Plannar	Natural	50-64	II	296	148
1519	1519	Haschak	1984	Field	Hill Slope			Natural	50-64	II	69	34
1520	1520	Haschak	1959	Field	Hill Slope			Natural	50-64	II	296	148
1521	1521	Haschak	1984	Field	Skid Trail			Mgt. Relate	75-84	II	333	83
788	1522	Haschak	1984	Field	Skid Trail		Convergent	Mgt. Relate	50-64	II	926	462
787	1523	Haschak	1984	Field	Hill Slope			Natural	65-74	II	1,296	648
1524	1524	Haschak	1984	Field	Hill Slope			Natural	50-64	II	67	16
1525	1525	Haschak	1984	Field	Skid Trail			Mgt. Relate	75-84	II	167	41
1688	1688	Haschak	0		THP Site, no data			No Info.			0	0
1689	1689	Haschak	0		THP Site, no data			No Info.			0	0
1690	1690	Haschak	0		THP Site, no data			No Info.			0	0
1691	1691	Haschak	0		THP Site, no data			No Info.			0	0
1692	1692	Haschak	0		THP Site, no data			No Info.			0	0
1693	1693	Haschak	0		THP Site, no data			No Info.			0	0
1897	1897	Haschak	1901	Field	Hill Slope	Inner Gorge	Convergent	Natural	75-84	II	208	208
1898	1898	Haschak	1998	Field	Hill Slope	Inner Gorge	Plannar	Natural	50-64	II	162	130
1899	1899	Haschak	1998	Field	Hill Slope	Inner Gorge	Plannar	Natural	65-74	II	93	74
1900	1900	Haschak	1998	Field	Hill Slope	Inner Gorge	Divergent	Natural	50-64	II	296	119

PART OF PLAN

Planning Watershed Black Point

Map#	ID #	Inspector	Year**	Source	Slide Type	Slope Type	Slope Form	Association	Slope	Stream	Total Yds	Delivered		
Summary for 'PW Name' = Black Point (48 detail records)														
						Delivery	Avg	311	Min	0	Max	4,888	Sum	14,944

*Landslide information for this report comes from two main sources, aerial photo analysis or field observations. Information about a landslide is entered into a database and the Slide ID number is entered into GIS and appears on the maps. Information about landslides entered by professionals other than a licensed geologist should be considered as informational until reviewed by a licensed geologist.

**Tim Best, CEG analyzed six sets of aerial photos to identify landslides (1947, 1959, 1970, 1984, 1998 and 2004). The year in this report is usually the year of the photos on which the slide was first observed. If the year is 1900 it means the slide is ancient. If the year is 1930 means the slide was old in the 1947 photos. If the year is 2010 it means the slide occurred after the most recent photos in 2004.

PART OF PLAN

Unstable Areas in the Black Point PWS

Map Sheet 1 of 4

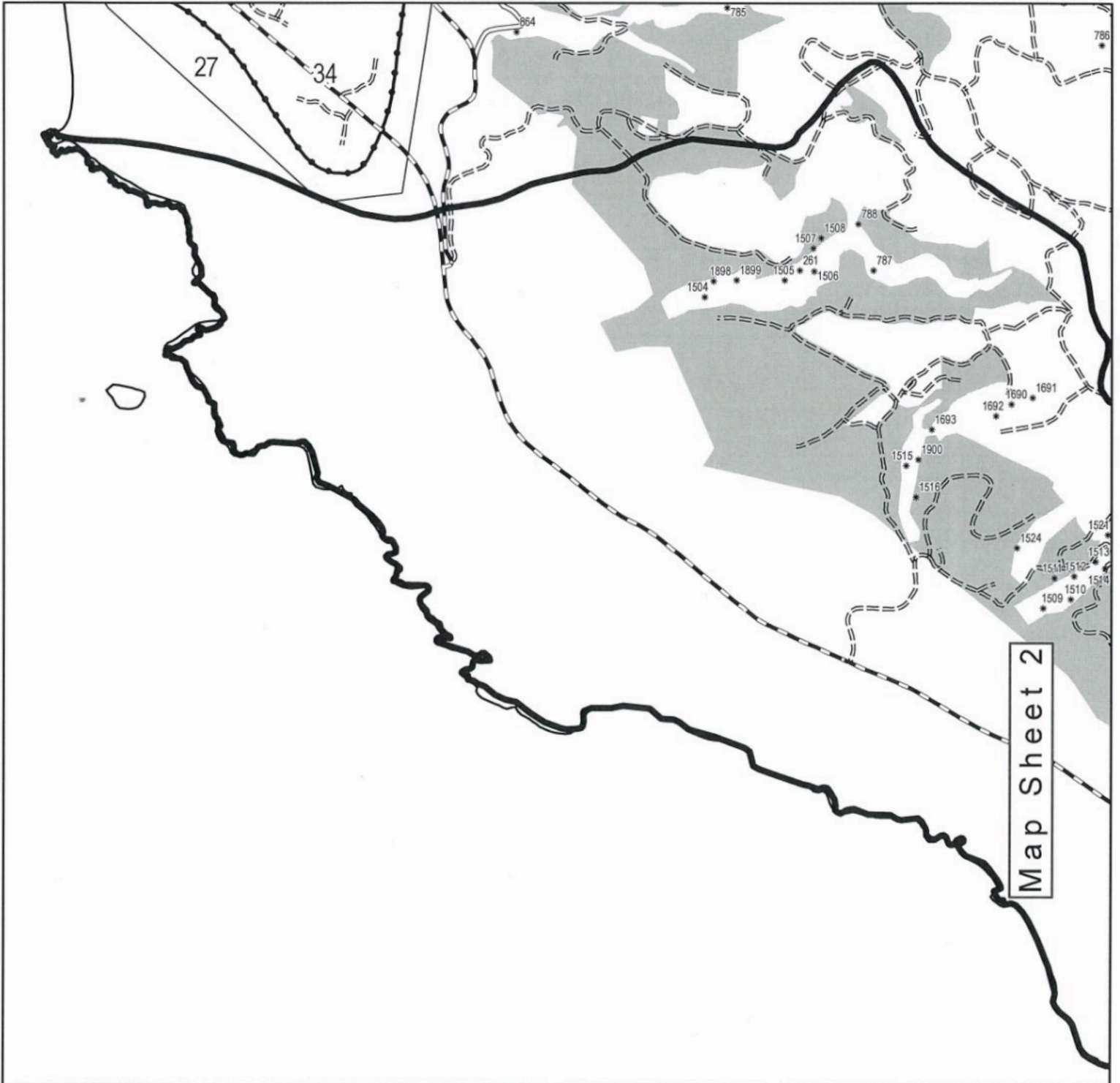
February 15, 2024



0 500 1,000 1,500 2,000 Feet

SCALE 1:20000

- * Instability
- HYDROGRAPHY
 - Class I
- TRANSPORTATION
 - EXISTING PAVED PUBLIC
 - ==== EXISTING PRIVATE PERMANENT
 - - - - EXISTING PRIVATE SEASONAL
-  Black Point Planning Watershed



Map Sheet 2

357.14

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Unstable Areas in the Black Point PWS


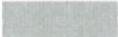
Map Sheet 2 of 4

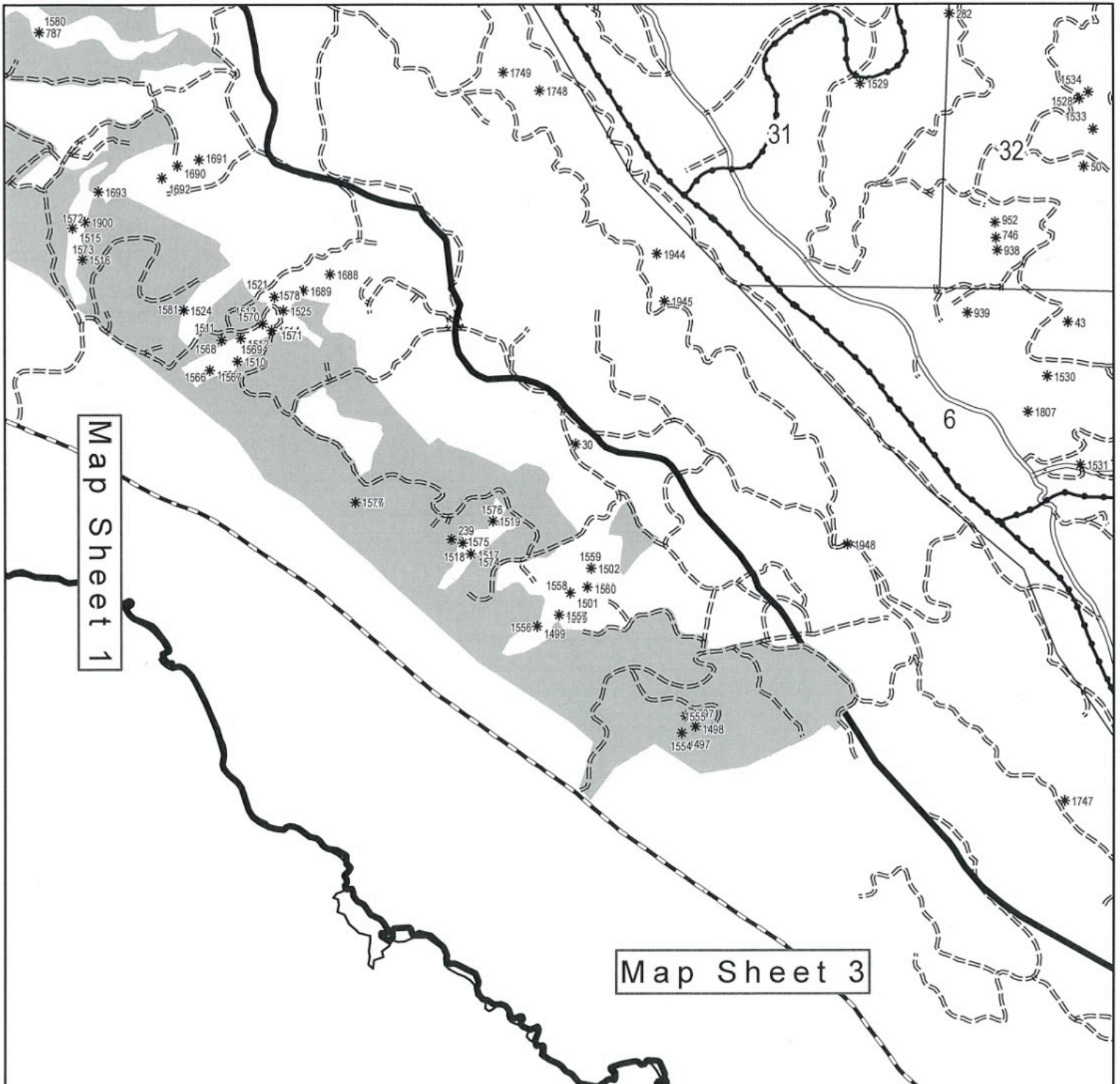
February 15, 2024



0 500 1,000 1,500 2,000 Feet

SCALE 1:20000

- * Instability
- HYDROGRAPHY
- Class I
- TRANSPORTATION
- — — — — EXISTING PAVED PUBLIC
- — — — — EXISTING PRIVATE PERMANENT
- — — — — EXISTING PRIVATE SEASONAL
-  Black Point Planning Watershed
-  THP BOUNDARY



Map Sheet 1

Map Sheet 3

357.15

PART OF PLAN

Unstable Areas in the Black Point PWS
Map Sheet 3 of 4

January 23, 2024



0 500 1,000 1,500 2,000
Feet

SCALE 1:20000

* Instability

HYDROGRAPHY

—●—●—●— Class I

TRANSPORTATION

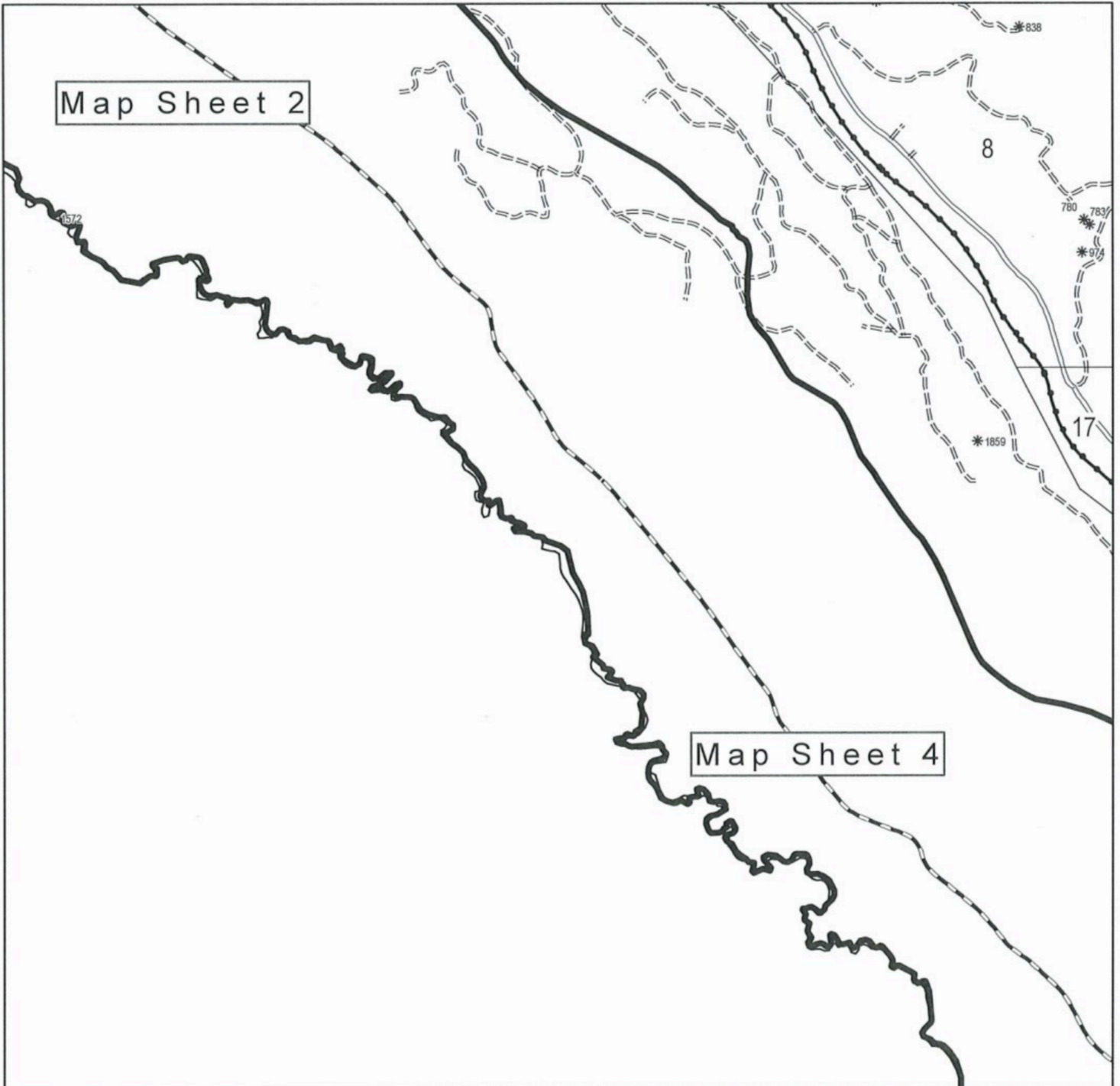
—+—+—+—+— EXISTING PAVED PUBLIC

— — — — — EXISTING PRIVATE PERMANENT

— · — · — · — · — EXISTING PRIVATE SEASONAL



Black Point Planning Watershed



Map Sheet 2

Map Sheet 4

357.16

Additional Page 2/5/2024

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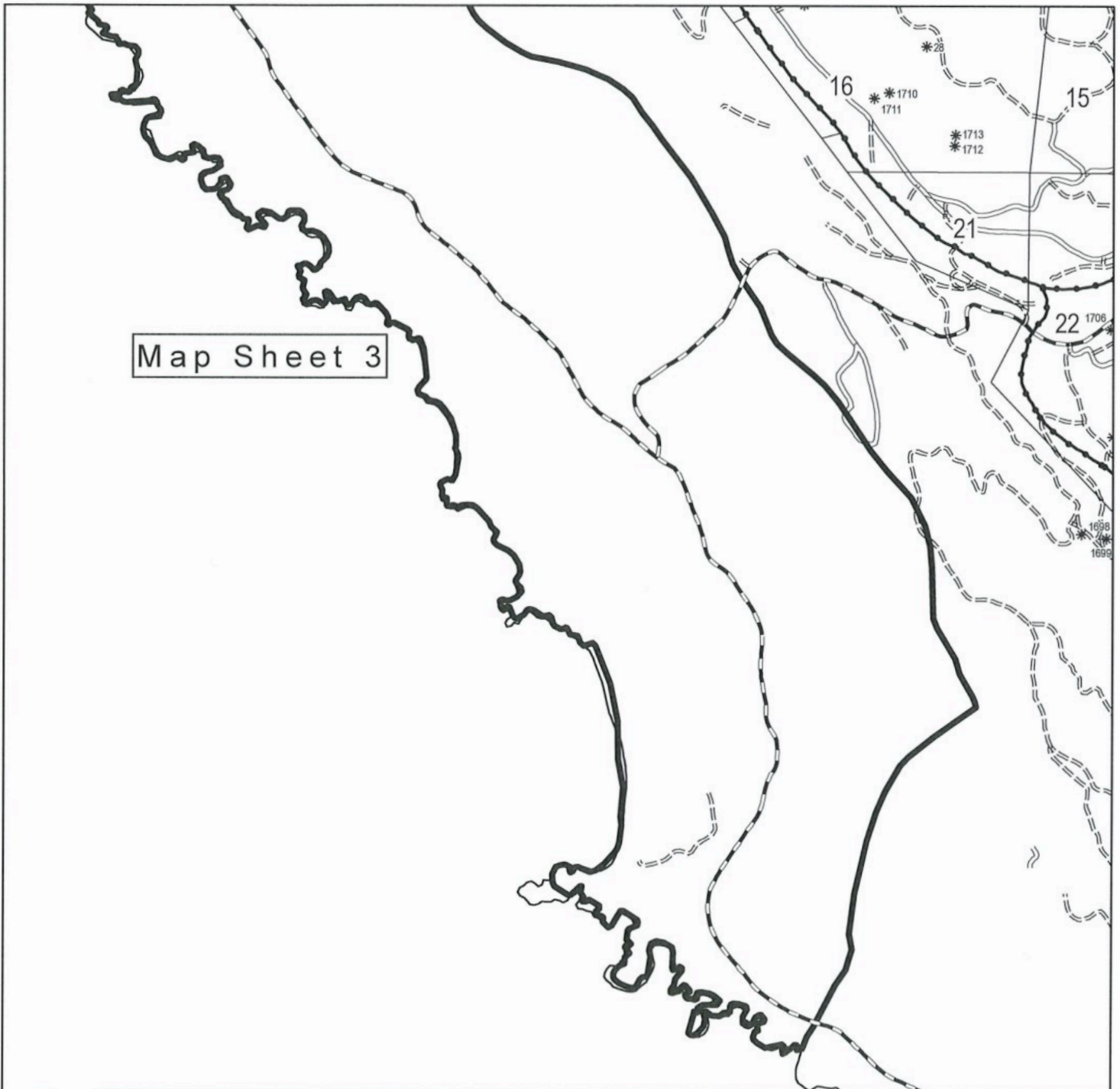
Unstable Areas in the Black Point PWS
Map Sheet 4 of 4

January 23, 2024



SCALE 1:20000

- * Instability
- HYDROGRAPHY
- Class I
- TRANSPORTATION
- — — — — EXISTING PAVED PUBLIC
- ==== EXISTING PRIVATE PERMENANT
- ===== EXISTING PRIVATE SEASONAL
-  Black Point Planning Watershed



Map Sheet 3

357.17

Additional Page 2/5/2024

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RESOURCE MANAGEMENT

PART OF PLAN

Landslides*

Planning Watershed Mouth of the Gualala River

Map#	ID #	Inspector	Year**	Source	Slide Type	Slope Type	Slope Form	Association	Slope	Stream	Total Yds	Delivered
28	28	Best CEG	1984	Photos	Road	Headwall Swale	Convergent	Mgt. Relate	50-64	NA	648	162
43	43	Best CEG	1970	Photos	Skid Trail	Headwall Swale	Convergent	Mgt. Relate	0-29	NA	222	55
44	44	Best CEG	1970	Photos	Skid Trail	Headwall Swale	Convergent	Mgt. Relate	30-49	NA	389	97
50	50	Best CEG	1970	Photos	Skid Trail	Headwall Swale	Convergent	Mgt. Relate	30-49	NA	1,481	370
65	65	Best CEG	1998	Photos	Stream Bank Failure	Headwall Swale	Convergent	Natural	75-84	NA	67	16
66	66	Best CEG	1998	Photos	Stream Bank Failure	Headwall Swale	Divergent	Natural	50-64	NA	67	16
67	67	Best CEG	1998	Photos	Stream Bank Failure	Headwall Swale	Divergent	Natural	85+	NA	222	55
93	93	Best CEG	1984	Photos	Hill Slope	Headwall Swale	Convergent	Natural	30-49	NA	648	324
127	127	Best CEG	1984	Photos	Skid Trail	Headwall Swale	Convergent	Mgt. Relate	65-74	NA	648	324
250	250	Best CEG	1959	Photos	Hill Slope	Inner Gorge	Convergent	Natural	30-49	Ukn	648	486
251	251	Best CEG	1959	Photos	Hill Slope	Inner Gorge	Convergent	Natural	65-74	Ukn	648	486
253	253	Best CEG	1984	Photos	Hill Slope	Inner Gorge	Divergent	Natural	50-64	NA	67	16
290	290	Best CEG	1984	Photos	Hill Slope	Inner Gorge	Plannar	Natural	30-49	Ukn	1,481	1,110
746	746	Best CEG	1959	Photos	Skid Trail		Divergent	Mgt. Relate	30-49	NA	222	55
759	759	Best CEG	1984	Photos	Hill Slope		Convergent	Natural	50-64	NA	67	16
780	780	Best CEG	1959	Photos	Hill Slope		Divergent	Natural	50-64	NA	389	194
783	783	Best CEG	1970	Photos	Hill Slope		Divergent	Natural	85+	NA	648	486
792	792	Best CEG	1998	Photos	Hill Slope		Plannar	Natural	50-64	NA	648	324
799	799	Best CEG	1970	Photos	Hill Slope		Plannar	Natural	30-49	NA	4,074	1,018
838	838	Best CEG	1984	Photos	Road		Divergent	Mgt. Relate	0-29	NA	2,370	592
849	849	Best CEG	1984	Photos	Road		Divergent	Mgt. Relate	50-64	NA	648	324
918	918	Best CEG	1970	Photos	Skid Trail		Convergent	Mgt. Relate	30-49	NA	222	111
919	919	Best CEG	1970	Photos	Skid Trail		Convergent	Mgt. Relate	50-64	Ukn	389	292
922	922	Best CEG	1984	Photos	Skid Trail		Convergent	Mgt. Relate	0-29	NA	222	55
938	938	Best CEG	1984	Photos	Skid Trail		Convergent	Mgt. Relate	65-74	NA	648	486
939	939	Best CEG	1984	Photos	Skid Trail		Convergent	Mgt. Relate	85+	NA	648	324
952	952	Best CEG	1984	Photos	Skid Trail		Divergent	Mgt. Relate	30-49	NA	67	33
974	974	Best CEG	1998	Photos	Skid Trail		Divergent	Mgt. Relate	50-64	NA	222	166
979	979	Best CEG	1970	Photos	Skid Trail		Divergent	Mgt. Relate	50-64	NA	389	97
980	980	Best CEG	1970	Photos	Skid Trail		Divergent	Mgt. Relate	75-84	NA	222	111
986	986	Best CEG	1984	Photos	Skid Trail		Divergent	Mgt. Relate	0-29	NA	222	55
987	987	Best CEG	1984	Photos	Skid Trail		Divergent	Mgt. Relate	75-84	NA	222	55
988	988	Best CEG	1984	Photos	Skid Trail		Divergent	Mgt. Relate	65-74	NA	222	111
989	989	Best CEG	1984	Photos	Skid Trail		Divergent	Mgt. Relate	50-64	NA	389	97
1000	1000	Best CEG	1970	Photos	Skid Trail		Divergent	Mgt. Relate	50-64	Ukn	648	486
1003	1003	Best CEG	1984	Photos	Skid Trail		Divergent	Mgt. Relate	65-74	NA	1,481	370
1020	1020	Best CEG	1984	Photos	Skid Trail		Plannar	Mgt. Relate	30-49	NA	222	55
1065	1065	Best CEG	1984	Photos	Hill Slope		Divergent	Natural	30-49	NA	648	324
1099	1099	Best CEG	1900	Photos	Translational Slide		N/A	Natural		NA	28,885,683	0
1200	1200	Best CEG	1900	Photos	Translational Slide		N/A	Natural		NA	3,999,571	0
1219	1219	Best CEG	1900	Photos	Translational Slide		N/A	Natural		NA	2,625,584	0
1220	1220	Best CEG	1900	Photos	Translational Slide		N/A	Natural		NA	1,240,194	0
1221	1221	Best CEG	1900	Photos	Translational Slide		N/A	Natural		NA	271,840	0
1224	1224	Best CEG	1900	Photos	Translational Slide		N/A	Natural		NA	643,376	0
1225	1225	Best CEG	1900	Photos	Translational Slide		N/A	Natural		NA	1,432,993	0
1235	1235	Best CEG	1900	Photos	Translational Slide		N/A	Natural		NA	1,795,857	0
1236	1236	Best CEG	1900	Photos	Translational Slide		N/A	Natural		NA	2,428,156	0
1291	1291	Best CEG	1984	Photos	Stream Bank Failure		Plannar	Natural		NA	33	8
1371	1371	Best CEG	1900	Photos	Translational Slide		N/A	Natural		NA	41,994,496	0

PART OF PLAN

Planning Watershed Mouth of the Gualala River

Map#	ID #	Inspector	Year**	Source	Slide Type	Slope Type	Slope Form	Association	Slope	Stream	Total Yds	Delivered
1372	1372	Best CEG	1900	Photos	Translational Slide		N/A	Natural		NA	3,339,083	0
1375	1375	Best CEG	1900	Photos	Translational Slide		N/A	Natural		NA	5,709,893	0
1376	1376	Best CEG	1900	Photos	Translational Slide		N/A	Natural		NA	32,694,094	0
1384	1384	Haschak	1984	Field	Hill Slope		Plannar	Natural	50-64	NA	139	0
1392	1392	Haschak	1984	Field	Stream Bank Failure	Inner Gorge	Convergent	Natural	65-74	III	833	749
1393	1393	Haschak	1984	Field	Landing		Convergent	Mgt. Relate	50-64	II	556	416
1394	1394	Haschak	1984	Field	Road		Plannar	Mgt. Relate	65-74	II	1,111	555
1395	1395	Haschak	1984	Field	Road	Inner Gorge	Convergent	Mgt. Relate	50-64	III	278	0
1443	1443	Haschak	1970	Field	Road	Inner Gorge	Convergent	Mgt. Relate	30-49	III	1,111	277
1444	1444	Haschak	1984	Field	Stream Bank Failure	Inner Gorge	Plannar	Natural	50-64	II	667	667
1445	1445	Haschak	1900	Field	Hill Slope		Convergent	Natural	50-64	NA	741	74
1530	1530	Haschak	1998	Field	Hill Slope	Inner Gorge	Convergent	Natural	75-84	III	694	347
1577	1577	Best CEG	2004	Photos	Hill Slope		Convergent	Natural			256	63
1578	1578	Best CEG	2004	Photos	Hill Slope		Convergent	Natural			1,185	296
1654	1654		0		THP Site, no data			No Info.			0	0
1655	1655		0		THP Site, no data			No Info.			0	0
1656	1656		0		THP Site, no data			No Info.			0	0
1657	1657		0		THP Site, no data			No Info.			0	0
1698	1698		0		THP Site, no data			No Info.			0	0
1699	1699		0		THP Site, no data			No Info.			0	0
1700	1700		0		THP Site, no data			No Info.			0	0
1701	1701		0		THP Site, no data			No Info.			0	0
1709	1709		0		THP Site, no data			No Info.			0	0
1710	1710		0		THP Site, no data			No Info.			0	0
1711	1711		0		THP Site, no data			No Info.			0	0
1712	1712		0		THP Site, no data			No Info.			0	0
1713	1713		0		THP Site, no data			No Info.			0	0
1747	1747		0		THP Site, no data			No Info.			0	0
1751	1751		0		THP Site, no data			No Info.			0	0
1767	1767		0		THP Site, no data			No Info.			0	0
1768	1768		1998	Field	Road	Headwall Swale	Convergent	Mgt. Relate	65-74	III	667	333
1769	1769		0		THP Site, no data			No Info.			0	0
1770	1770		0		THP Site, no data			No Info.			0	0
1807	1807	Haschak	1998	Field	Stream Bank Failure	Inner Gorge	Plannar	Natural	65-74	III	15	15
1820	1820	Haschak		Field	THP Site, no data			No Info.		I	0	0
1821	1821	Haschak		Field	THP Site, no data			No Info.			0	0
1822	1822	Haschak		Field	THP Site, no data			No Info.			0	0
1823	1823	Haschak		Field	THP Site, no data			No Info.			0	0
1824	1824	Haschak		Field	THP Site, no data			No Info.			0	0
1825	1825	Haschak		Field	THP Site, no data			No Info.			0	0
1826	1826	Haschak		Field	THP Site, no data			No Info.			0	0
1827	1827	Haschak		Field	THP Site, no data			No Info.			0	0
1828	1828	Haschak		Field	THP Site, no data			No Info.			0	0
1839	1839	Haschak	1959	Field	Road	Inner Gorge	Plannar	Mgt. Relate	75-84	I	333	100
1840	1840	Haschak	1959	Field	Hill Slope		Convergent	Natural	65-74	III	333	267
1841	1841	Haschak	1930	Field	Hill Slope	Inner Gorge	Plannar	Natural	65-74	II	167	150
1843	1843	Haschak	1959	Field	Hill Slope	Inner Gorge	Convergent	Natural	75-84	II	125	125
1844	1844	Haschak	1930	Field	Hill Slope	Inner Gorge	Convergent	Natural	65-74	II	2,222	2,222
1845	1845	Haschak	1970	Field	Hill Slope		Convergent	Natural	65-74	I	74	0
1846	1846	Haschak	1998	Field	Stream Bank Failure	Inner Gorge	Plannar	Natural	50-64	II	556	389
1847	1847	Haschak	1901	Field	Stream Bank Failure		Plannar	Natural	30-49	II	278	250
1848	1848	Haschak	1901	Field	Hill Slope		Plannar	Natural	75-84	NA	1,111	0
1849	1849	Haschak	1930	Field	Hill Slope	Inner Gorge	Plannar	Natural	75-84	II	56	56
1850	1850	Haschak	1930	Field	Hill Slope	Inner Gorge	Plannar	Natural	75-84	II	111	111

PART OF PLAN

Planning Watershed Mouth of the Gualala River

Map#	ID #	Inspector	Year**	Source	Slide Type	Slope Type	Slope Form	Association	Slope	Stream	Total Yds	Delivered
1851	1851	Haschak	1930	Field	Hill Slope	Inner Gorge	Plannar	Natural	75-84	II	116	116
1852	1852	Haschak	1930	Field	Hill Slope	Inner Gorge	Plannar	Natural	65-74	II	222	222
1853	1853	Haschak	1959	Field	Hill Slope	Inner Gorge	Plannar	Natural	65-74	II	33	30
1854	1854	Haschak	1900	Field	Hill Slope	Inner Gorge	Plannar	Natural	65-74	II	583	583
1855	1855	Haschak	1901	Field	Hill Slope	Inner Gorge	Plannar	Natural	65-74	II	389	389
1859	1859	Haschak	1900	Field	Unknown	Inner Gorge	Convergent	Natural	65-74	II	778	622
1878	1878	Haschak	1970	Field	Road	Headwall Swale	Convergent	Mgt. Relate	50-64	III	1,111	556
1894	1894	Haschak	1998	Field	Skid Trail		Convergent	Mgt. Relate	65-74	III	67	50
1944	1944	Haschak	1998	Field	Hill Slope		Plannar	Natural	50-64	II	133	0
1945	1945	Haschak	1998	Field	Stream Bank Failure	Inner Gorge	Convergent	Natural	75-84	II	167	83
1948	1948	Haschak	1930	Field	Stream Bank Failure	Inner Gorge	Convergent	Natural	65-74	II	1,250	1,125
1968	1968	Haschak	1998	Field	Skid Trail	Inner Gorge	Plannar	Mgt. Relate	75-84	II	1,667	1,333
1970	1970	Haschak	1998	Field	Stream Bank Failure	Inner Gorge	Convergent	Natural	65-74	II	1,111	1,000
1971	1971	Haschak	1970	Field	Unknown	Inner Gorge	Plannar	Natural	85+	II	111	56
1972	1972	Haschak	2010	Field	Unknown	Inner Gorge	Convergent	Natural	65-74	II	356	249
1973	1973	Haschak	1901	Field	Unknown	Inner Gorge	Plannar	Natural	85+	II	2,222	2,222
1974	1974	Haschak	1998	Field	Translational Slide		Plannar	Natural	30-49	II	20,000	1,000
1975	1975	Haschak	1984	Field	Unknown	Inner Gorge	Plannar	Natural	65-74	II	556	111
1977	1977	Haschak	1998	Field	Unknown		Plannar	Natural	50-64	NA	167	0
1978	1978	Haschak	1984	Field	Unknown	Inner Gorge	Convergent	Natural	65-74	II	222	111
1979	1979	Haschak	1984	Field	Stream Bank Failure	Inner Gorge	Plannar	Natural	75-84	II	500	500
1980	1980	Haschak	1984	Field	Stream Bank Failure	Inner Gorge	Plannar	Natural	75-84	II	200	200
1981	1981	Haschak	1998	Field	Stream Bank Failure	Inner Gorge	Convergent	Natural	65-74	II	278	278
1982	1982	Haschak	1984	Field	Hill Slope		Plannar	Natural	65-74	NA	278	0
1983	1983	Haschak	1970	Field	Unknown	Inner Gorge	Plannar	Natural	65-74	I	278	0
1984	1984	Haschak	1998	Field	Road	Inner Gorge	Plannar	Mgt. Relate	65-74	I	556	278
1985	1985	Haschak	1901	Field	Unknown	Inner Gorge	Plannar	Natural	30-49	I	625	188
1986	1986	Haschak	1901	Field	Unknown	Inner Gorge	Plannar	Natural	75-84	I	1,667	1,667
1987	1987	Haschak	1959	Field	Stream Bank Failure	Inner Gorge	Plannar	Natural	75-84	I	370	370

Summary for 'PW Name' = Mouth of the Gualala River (132 detail records)

Delivery Avg 249 Min 0 Max 2,222 Sum 30,568

*Landslide information for this report comes from two main sources, aerial photo analysis or field observations. Information about a landslide is entered into a database and the Slide ID number is entered into GIS and appears on the maps. Information about landslides entered by professionals other than a licensed geologist should be considered as informational until reviewed by a licensed geologist.

**Tim Best, CEG analyzed six sets of aerial photos to identify landslides (1947, 1959, 1970, 1984, 1998 and 2004). The year in this report is usually the year of the photos on which the slide was first observed. If the year is 1900 it means the slide is ancient. If the year is 1930 means the slide was old in the 1947 photos. If the year is 2010 it means the slide occurred after the most recent photos in 2004.

PART OF PLAN

Unstable Areas in the Mouth of the Gualala PWS

Map Sheet 1 of 4

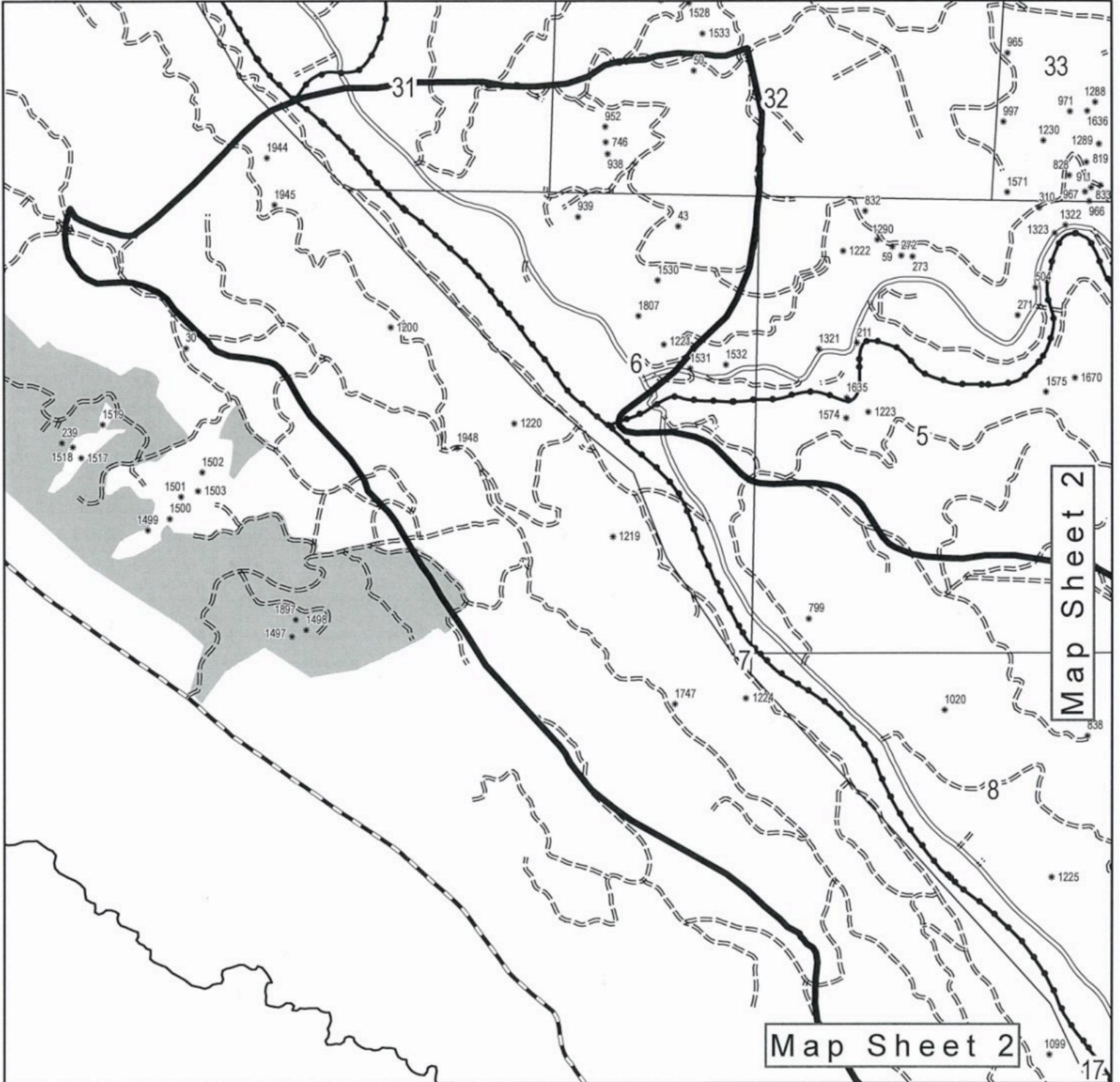
February 15, 2024



0 500 1,000 1,500 2,000 Feet

SCALE 1:20000

- Instability
- HYDROGRAPHY
- Class I
- TRANSPORTATION
- — — — — EXISTING PAVED PUBLIC
- — — — — EXISTING PRIVATE PERMANENT
- — — — — EXISTING PRIVATE SEASONAL
- ▭ Mouth of the Gualala PWS
- ▭ THP BOUNDARY



357.21

Map Sheet 2

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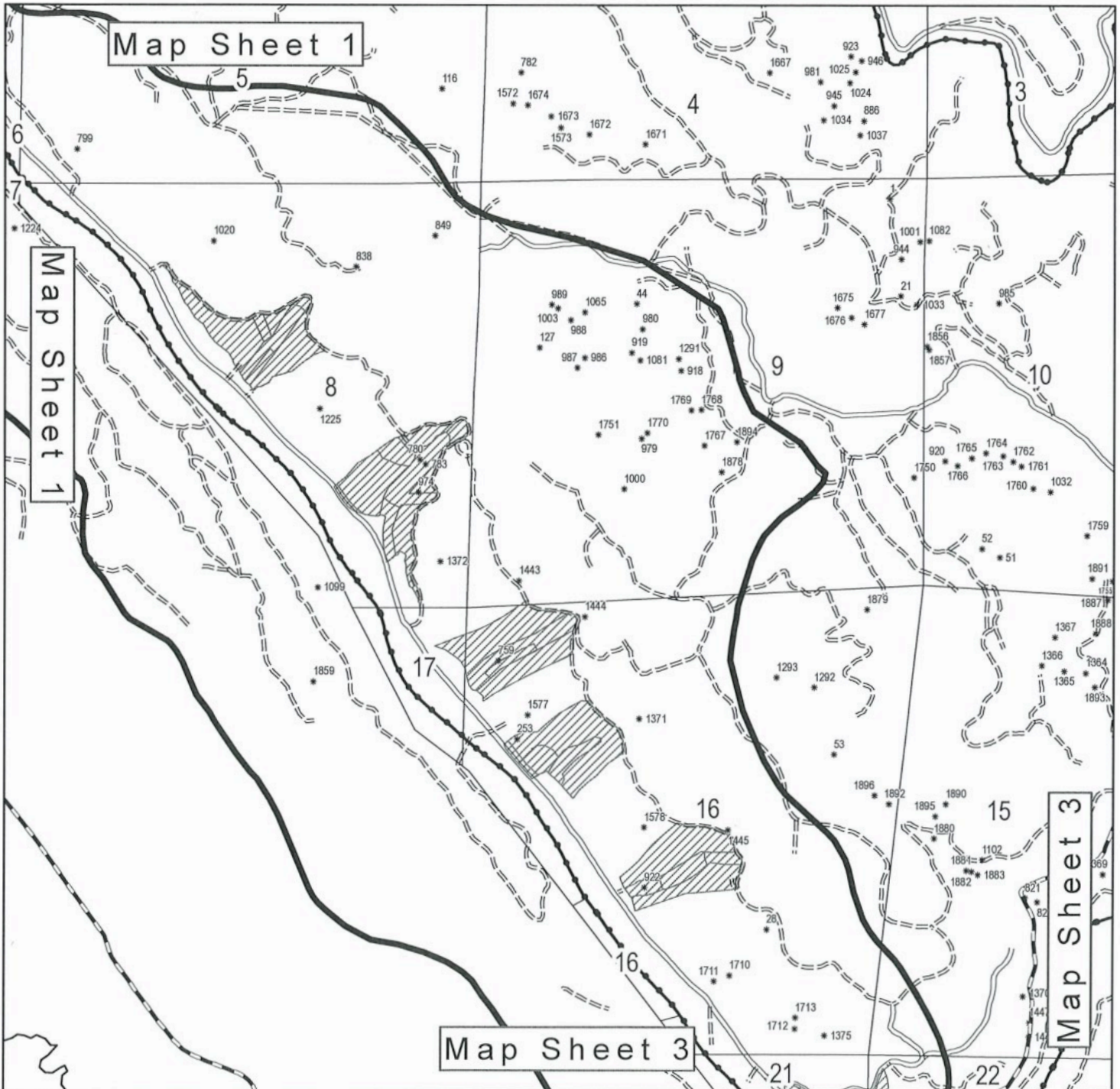
Unstable Areas in the Mouth of the Gualala PWS
Map Sheet 2 of 4

January 23, 2024



0 500 1,000 1,500 2,000 Feet
SCALE 1:20000

- * Instability
- HYDROGRAPHY
 - Class I
- TRANSPORTATION
 - — — — — EXISTING PAVED PUBLIC
 - — — — — EXISTING PRIVATE PERMANENT
 - — — — — EXISTING PRIVATE SEASONAL
 - ▭ Mouth of the Gualala PWS



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Unstable Areas in the Mouth of the Gualala PWS
Map Sheet 3 of 4

January 23, 2024



0 500 1,000 1,500 2,000 Feet
SCALE 1:20000

HYDROGRAPHY

—•—•—•— Class I

* Instability

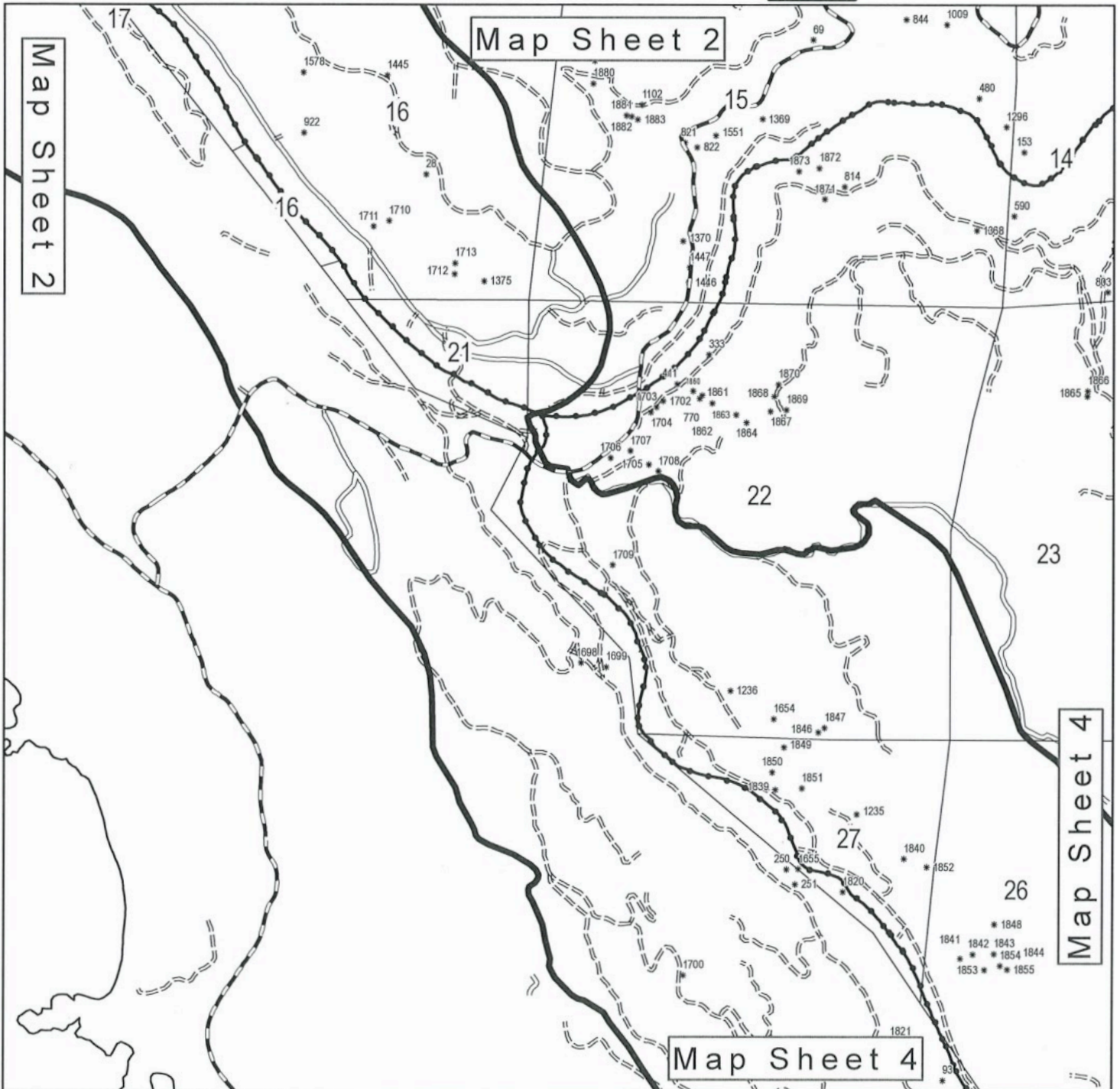
TRANSPORTATION

—+—+—+— EXISTING PAVED PUBLIC

— — — — — EXISTING PRIVATE PERMANENT

- - - - - EXISTING PRIVATE SEASONAL

▭ Mouth of the Gualala PWS



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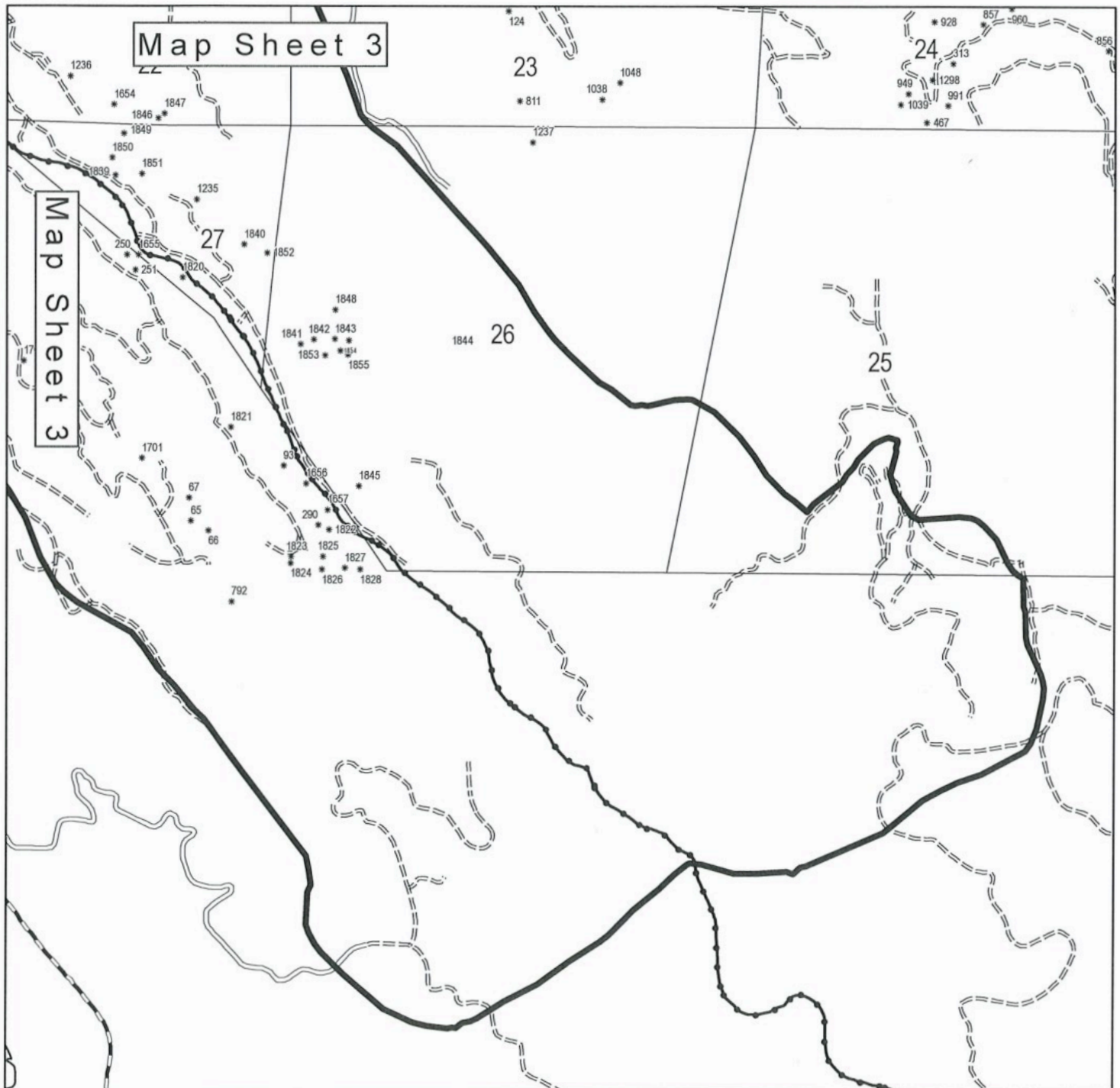
Unstable Areas in the Mouth of the Gualala PWS
Map Sheet 4 of 4

January 23, 2024



0 500 1,000 1,500 2,000 Feet
SCALE 1:20000

- * Instability
- HYDROGRAPHY
 - Class I
- TRANSPORTATION
 - — — — — EXISTING PAVED PUBLIC
 - ===== EXISTING PRIVATE PERMANENT
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 - ▭ Mouth of the Gualala PWS



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Gualala Redwood Timber LLC (GRT) and Gualala Community Services District (GCSD)

Storm Proofing the Sewer Treatment Plant Access Road 2017 Action Plan

The above parties plan to take corrective action to repair minor storm damage that occurred during the 2016-2017 winter period to GCSD's sewer treatment access road where it crosses over Gualala Redwood Timber holding. Said work is to be completed prior to October 15th, 2017.

Scope of Work:

Work involves a general reshaping of the road running surface to facilitate better drainage and to hydrologically disconnect road from watercourses in the area to the degree feasible; see attached map and road point table. Work consists of 1) placing rolling dips across the road surface to break long runs of collected surface runoff, 2) replacement of worn ditch relief pipes and watercourse crossing culverts where called for, 3) restoring road drainage to established inboard ditch lines as necessary, 4) conduct standard road maintenance, and 5) resurface the road with rock to allow all season access.

Prepared by Gualala Redwood Timber LLC

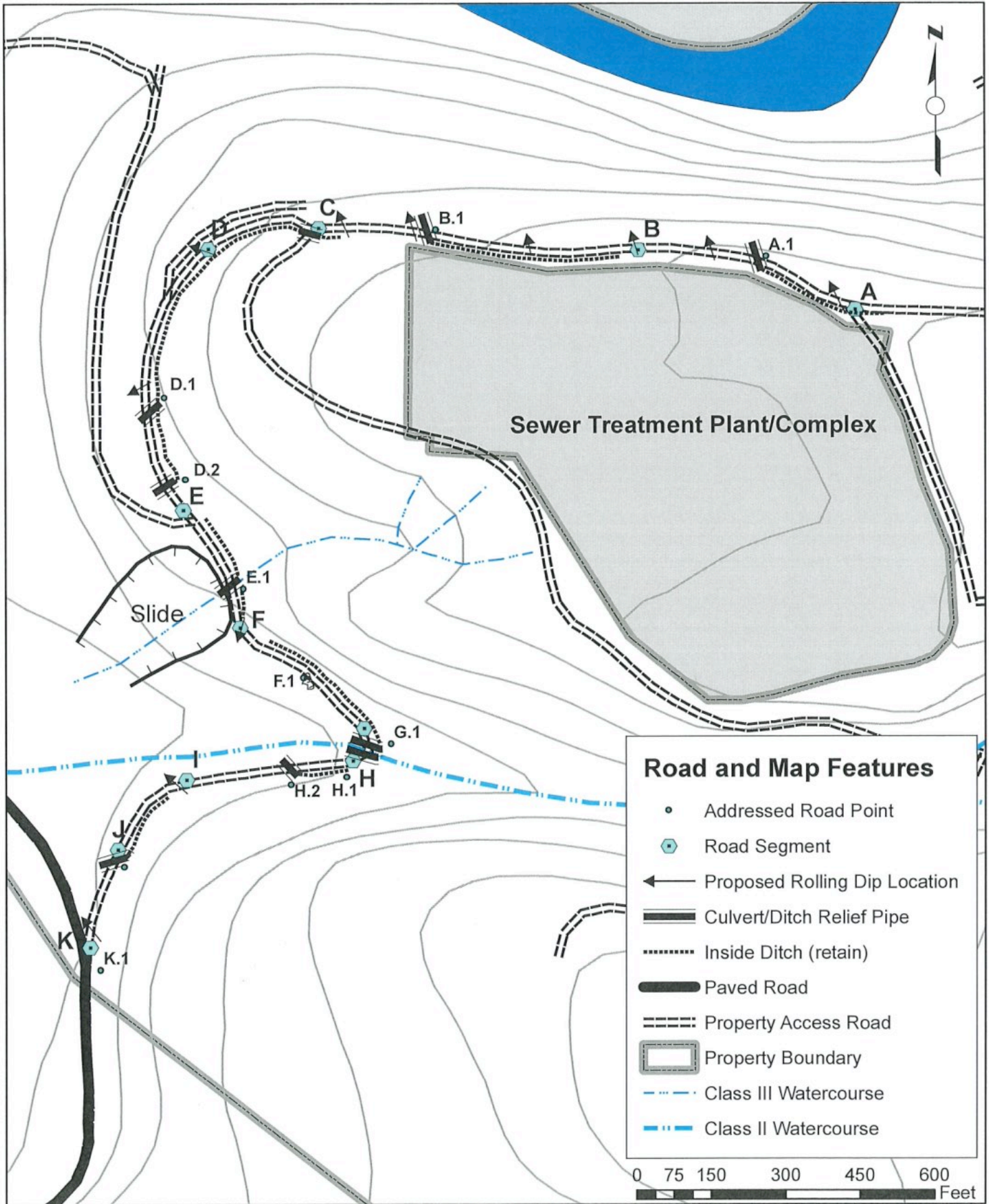
Charll K Stoneman, RPF#2375

June 27, 2017

357.25

Additional Page 2/5/2024

GRT & GCSD Sewer Treatment Road Storm Proofing



MAP POINT (MP) Identifier	SITE DESCRIPTION (SD) (See Key)	Watercourse CLASS (WC) or feature	EXISTING Culvert Diameter Size (EC)	PROPOSED Culvert Diameter Size (PC)	Geologist used? Yes or No	1600? Yes or No	Potential Sediment Discharge (PSD) in cu. yds. (See Key)	Implementation Priority (IP) (See Key)
MITIGATION AND/OR MANAGEMENT MEASURES: If needed, provide additional details of site; and/or describe proposed treatment								

*NOTE: Write "NA" or "---" if a box is not applicable to the map point

MP: A to B	SD: Tip & Dip Out	WC: NA	EC: NA	PC: NA	Geo Used? NA	1600? NA	PSD: Incidental Road Runoff	IP: Low
Management Measures: Starting from the flat above the entrance to the sewer treatment facility "tip and dip" road running surface out from the road cutbank and/or from the established inboard ditch line. Install rolling dips at or near designated locations as flagged in the field. Inboard Ditch Line- Where present maintain the existing inboard ditch in an ungraded, vegetated, condition.								
MP: A.1	SD: Ditch Relief Culvert	WC: NA	EC: 18"	PC: NA	Geo Used? NA	1600? NA	PSD: NA	IP: NA
Management Measures: Existing, functional 18" X 40' CMP cross-drain with downspout. Leave intact and maintain as necessary.								
MP: B to C	SD: Tip & Dip Out	WC: NA	EC: NA	PC: NA	Geo Used? NA	1600? NA	PSD: Incidental Road Runoff	IP: Low
357.27	Management Measures: The road transitions back with an established inboard ditch line. "Tip and dip" road running surface out from the road cutbank and/or the established inboard ditch line as feasible. Install rolling dips at or near designated locations as flagged in the field. Inboard Ditch Line- Where present maintain the existing inboard ditch in an ungraded, vegetated, condition.							
MP: B.1	SD: Ditch Relief Culvert	WC: NA	EC: 18"	PC: NA	Geo Used? NA	1600? NA	PSD: NA	IP: NA
Management Measures: Worn out 18" X 40' CMP ditch relief cross-drain. Replace with new culvert of same size and length. Set culvert to grade, and down spout or rock armor outfall as needed. Berm or block downslope side of culvert opening to direct ditch flow through pipe. Install rolling dip across the road surface from cut bank immediately below (downgrade) of pipe entrance as feasible.								
MP: C to D	SD: Tip & Dip In or Crown Road Surface	WC: NA	EC: 18"	PC: NA	Geo Used? NA	1600? NA	PSD: NA	IP: NA
Management Measures: Maintain inboard ditch line and existing 18" cross drain culvert at road junction entrance. Between map points C and D transition road drainage as a "tip-in" to the ditch line or as a crowned road surface.								
MP: D to E	SD: Tip & Dip Out	WC: NA	EC: NA	PC: NA	Geo Used? NA	1600? NA	PSD: NA	IP: NA

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MAP POINT (MP) Identifier	SITE DESCRIPTION (SD) (See Key)	Watercourse CLASS (WC) or feature	EXISTING Culvert Diameter Size (EC)	PROPOSED Culvert Diameter Size (PC)	Geologist used? Yes or No	1600? Yes or No	Potential Sediment Discharge (PSD) in cu. yds. (See Key)	Implementation Priority (IP) (See Key)
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MITIGATION AND/OR MANAGEMENT MEASURES: If needed, provide additional details of site; and/or describe proposed treatment

*NOTE: Write "NA" or "---" if a box is not applicable to the map point

	<p>Management Measures: "Tip and dip" road running surface out from the established inboard ditch line as feasible. Install rolling dips from the road crest at the ditch line as marked by the map and in the field. Inboard Ditch Line- Maintain the existing inboard ditch in an ungraded, vegetated, condition.</p>							
MP: D.1	SD: Worn Out Ditch Relief Culvert	WC: NA	EC: 18"	PC: NA	Geo Used? NA	1600? NA	PSD: NA	IP: NA
	<p>Management Measures: Remove or abandon existing 18" ditch relief culvert at this location in favor of new installation at Point D.2.</p>							
MP: D.2	SD: New Ditch Relief Culvert	WC: NA	EC: 18"	PC: 18"	Geo Used? NA	1600? NA	PSD: NA	IP: NA
	<p>Management Measures: Install new minimum 18" by 40' ditch relief pipe at designated location roughly 50 feet above road junction as shown on map.</p>							
MP: E to F	SD: Tip & Dip In	WC: NA	EC: NA	PC: NA	Geo Used? NA	1600? NA	PSD: NA	IP: NA
357.28	<p>Management Measures: Existing road grade needs be transitioned from a flat running surface to a slight inslope condition as the road skirts around the headwall of the slide. Road runoff along this section of road is to be tilted in and directed to the inboard ditch line. A berm is to be constructed and maintained along the outboard edge of the road to prevent overland flow discharge from the road surface onto the slide.</p>							
MP: E.1	SD: Minor Class II Watercourse Crossing	WC: Class II	EC: 18"	PC: 30"	Geo Used? No	1600? No	PSD: 2 to 3 cu yds if culvert were blocked	IP: Medium
	<p>Management Measures: The existing 18' CMP is to be replaced by a minimum 30" x 40' culvert set to grade as near as feasible. Any outfall drop greater than 8 inches in height shall be rock armored or down-spouted to channel grade. Rock armor size is to be 12-inch plus, if needed. Resume inboard ditch line immediately down grade of the culvert inlet to direct flow to the next rolling dip installation at the bend in road. If flow is present at the time of installation it will be necessary to temporarily divert it around the installation site during pipe removal and new pipe placement.</p> <p>Caution: Utilities that service the sewer treatment plant are buried just below the existing pipe's inlet. Due caution will need to be exercised with pipe removal and installation. Since pipe replacement is only expected to alter the road grade no DFW 1600 permit is anticipated.</p>							
MP: F to G	SD: Tip & Dip Out	WC: NA	EC: NA	PC: NA	Geo Used? NA	1600? NA	PSD: NA	IP: NA
	<p>Management Measures: Install rolling dip diagonally across bend in road at Point F to drain road runoff collected below culvert installation at Point E.1. "Tip and dip" road running surface out from the established inboard ditch line as feasible. Inboard Ditch Line- Restore a proper ditch line as necessary, but maintain the existing inboard ditch in an ungraded, vegetated, condition where feasible. Exposed bare mineral soil within the ditch line shall be treated for erosion control, and to prevent ditch downcutting, by rock lining the ditch or installing straw waddle check dams.</p>							

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MAP POINT (MP) Identifier	SITE DESCRIPTION (SD) (See Key)	Watercourse CLASS (WC) or feature	EXISTING Culvert Diameter Size (EC)	PROPOSED Culvert Diameter Size (PC)	Geologist used? Yes or No	1600? Yes or No	Potential Sediment Discharge (PSD) in cu. yds. (See Key)	Implementation Priority (IP) (See Key)
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MITIGATION AND/OR MANAGEMENT MEASURES: If needed, provide additional details of site; and/or describe proposed treatment

*NOTE: Write "NA" or "---" if a box is not applicable to the map point

MP: F.1	SD: Gully Erosion of Road Fill	WC: NA	EC: NA	PC: NA	Geo Used? NA	1600? NA	PSD: 2 to 3 cu yds	IP: Low
<p>Management Measures: Two (2) to three (3) cubic yard gully erosion site off the outer road fill due to culvert blockage and diversion of stream flow from Point E.1 during the winter of 2017. It is evident that this diversion has occurred in years past as the slope from the road to a flat at the Class II stream channel has been periodically channelized. The gully is to be filled with 12-inch plus rock to fill the hole and stabilize the outer road edge. The road is to be tipped out at this point to facilitate any minor road runoff to be directed to the low spot at and over the rock fill, and to provide a backup discharge location in the event of culvert failure at Point E.1.</p>								
MP: G.1	SD: Existing Permanent Crossing	WC: Class II	EC: Two 30" Steel Pipes	PC: NA	Geo Used? NA	1600? NA	PSD: NA	IP: High; Clear Pipe Inlet
357.29	<p>Management Measures: Pipe inlets are partially blocked with sticks and woody debris. Fine gravels have been caught and built up behind the blockage. Clear pipe inlets of debris and remove as much stored gravels and fines from in front of the pipe inlets as feasible with a backhoe or excavator. Excavated materials shall be removed from the site or stored at a stable location outside the stream channel zones.</p> <p>Critical Dip Installation: Construct a critical dip on the down grade side of the Class II crossing. Hinge top (i.e., the berm) of the dip on the downslope side of the crossing from the cutbank to the bottom end of the culvert outlet as marked in the field. The critical dip is to be built on the down grade side of the crossing (near the stream crossing hinge line) and not along the centerline where the fill is the deepest. A critical dip installed along the stream crossing hinge line at this location would result in a smaller amount of gully erosion if the crossing pipes were to become plugged.</p>							
	MP: H to I	SD: Tip & Dip Out	WC: NA	EC: NA	PC: NA	Geo Used? NA	1600? NA	PSD: NA
<p>Management Measures: Tip and dip" road running surface out as feasible from the established inboard ditch line. Install rolling dips as marked in the field. Inboard Ditch Line- Restore a proper ditch line where necessary, but maintain the existing inboard ditch in an ungraded, vegetated, condition as feasible.</p>								
MP: H.1	SD: Ditch Line Start-Up	WC: Seeps	EC: NA	PC: NA	Geo Used? NA	1600? NA	PSD: Incidental	IP: NA
<p>Management Measures: Maintain inboard ditch line to pick up cutbank seep and direct collected flow to the ditch relief pipe at Point H.2.</p>								
MP: H.2	SD: Ditch Relief Culvert	WC: NA	EC: 18"	PC: NA	Geo Used? NA	1600? NA	PSD: NA	IP: NA
Additional Page 2/5/2024	<p>Management Measures: Existing functional 18" CMP cross-drain. Pipe outlet is shot-gunned. Down spout or rock armor pipe outfall as needed to prevent any further erosion of the road fill slope.</p>							

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MAP POINT (MP) Identifier	SITE DESCRIPTION (SD) (See Key)	Watercourse CLASS (WC) or feature	EXISTING Culvert Diameter Size (EC)	PROPOSED Culvert Diameter Size (PC)	Geologist used? Yes or No	1600? Yes or No	Potential Sediment Discharge (PSD) in cu. yds. (See Key)	Implementation Priority (IP) (See Key)
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MITIGATION AND/OR MANAGEMENT MEASURES: If needed, provide additional details of site; and/or describe proposed treatment

*NOTE: Write "NA" or "---" if a box is not applicable to the map point

MP: I to J	SD: Crown or Tip & Dip Road In	WC: NA	EC: NA	PC: NA	Geo Used? NA	1600? NA	PSD: NA	IP: NA
Management Measures: Crown road through this section or "tip and dip" road in. In either case road runoff along the inboard section of the road surface is to be directed to the existing, functional, ditch relief culvert at Point J.1.								
MP: J.1	SD: Ditch Relief Culvert	WC: NA	EC: 18"	PC: NA	Geo Used? NA	1600? NA	PSD: NA	IP: NA
Management Measures: Existing functional 18" CMP cross-drain.								
MP: J to K	SD: Tip & Dip Out	WC: NA	EC: NA	PC: NA	Geo Used? NA	1600? NA	PSD: NA	IP: NA
Management Measures: Tip and dip the road running surface out as feasible.								
MP: K.1	SD: Rolling Dip	WC: NA	EC: NA	PC: NA	Geo Used? NA	1600? NA	PSD: NA	IP: NA
Management Measures: End of project area and bottom of sewer treatment access service road where it intersects with the paved Regional County Park road. Install a shallow rolling dip to capture runoff from both directions and discharge runoff off at the service road entrance.								

357.30

ADDITIONAL INFORMATION:

1. Length/distance of storm proofing road work is 0.6 miles.
2. Once road reshaping is complete, the road is to be surfaced with ¾ inch crush or angular surface rock to a minimum 4-inch depth.
3. The project requires two culvert installations that are to be included in the work bid, with culvert purchasing included. Those pipe installations are as follows:
 - 18" X 40' CMP Ditch Relief Pipe
 - 30" X 40' CMP Replacement Culvert at Point E.1; a minor Class II Watercourse. The RPF and/or the sewer treatment plant staff are to be present on-site during pipe removal, and initial excavation and placement of the new pipe, to oversee installation due to the pipe's inlet proximity to buried utilities.

Additional Page

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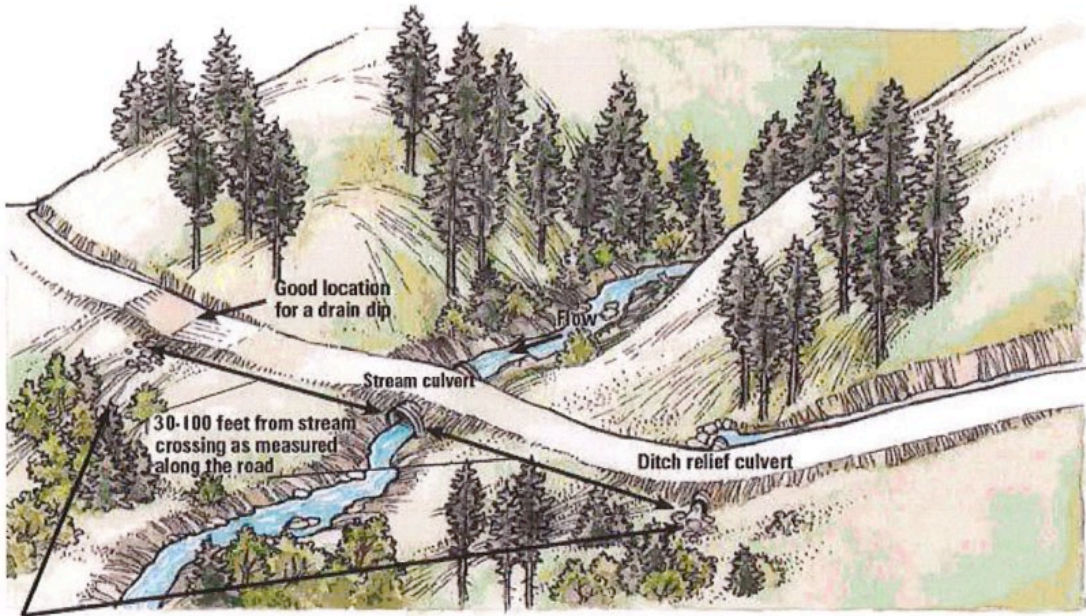
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Storm Proofing Plan Appendix

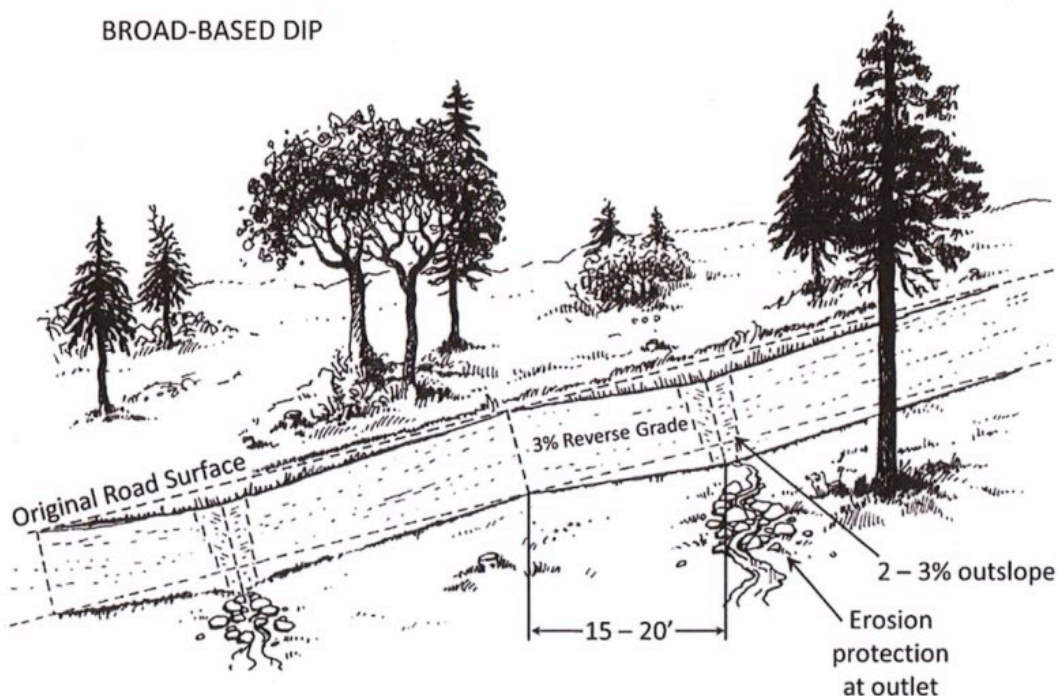
Best Management Practices in Road Reshaping, Rolling Dip Construction and Crossing Critical Dip Installations



Ditch drainage should be directed into vegetation and undisturbed soil filter, and not allowed to continue flowing down the ditch and into the stream.

Figure 1. Diagram showing implementation of road drainage disconnection facilities/structures to limit sediment delivery into a watercourse. Note the absence of an apparent critical dip at the crossing. (modified from Oregon Forest Resources Institute 2011, 2nd Ed., used with permission).

BROAD-BASED DIP



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Point G.1 Critical Dip Installation

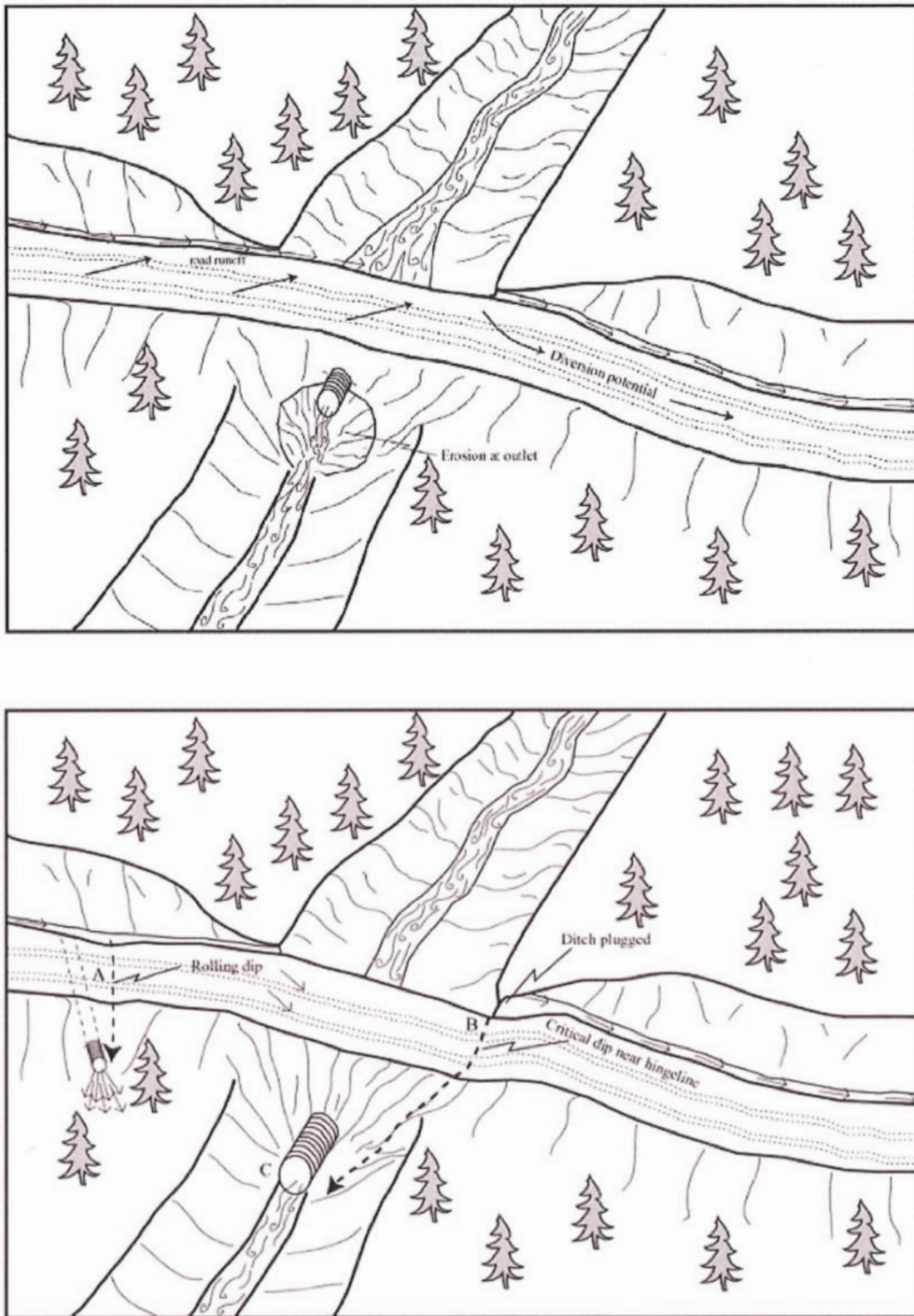
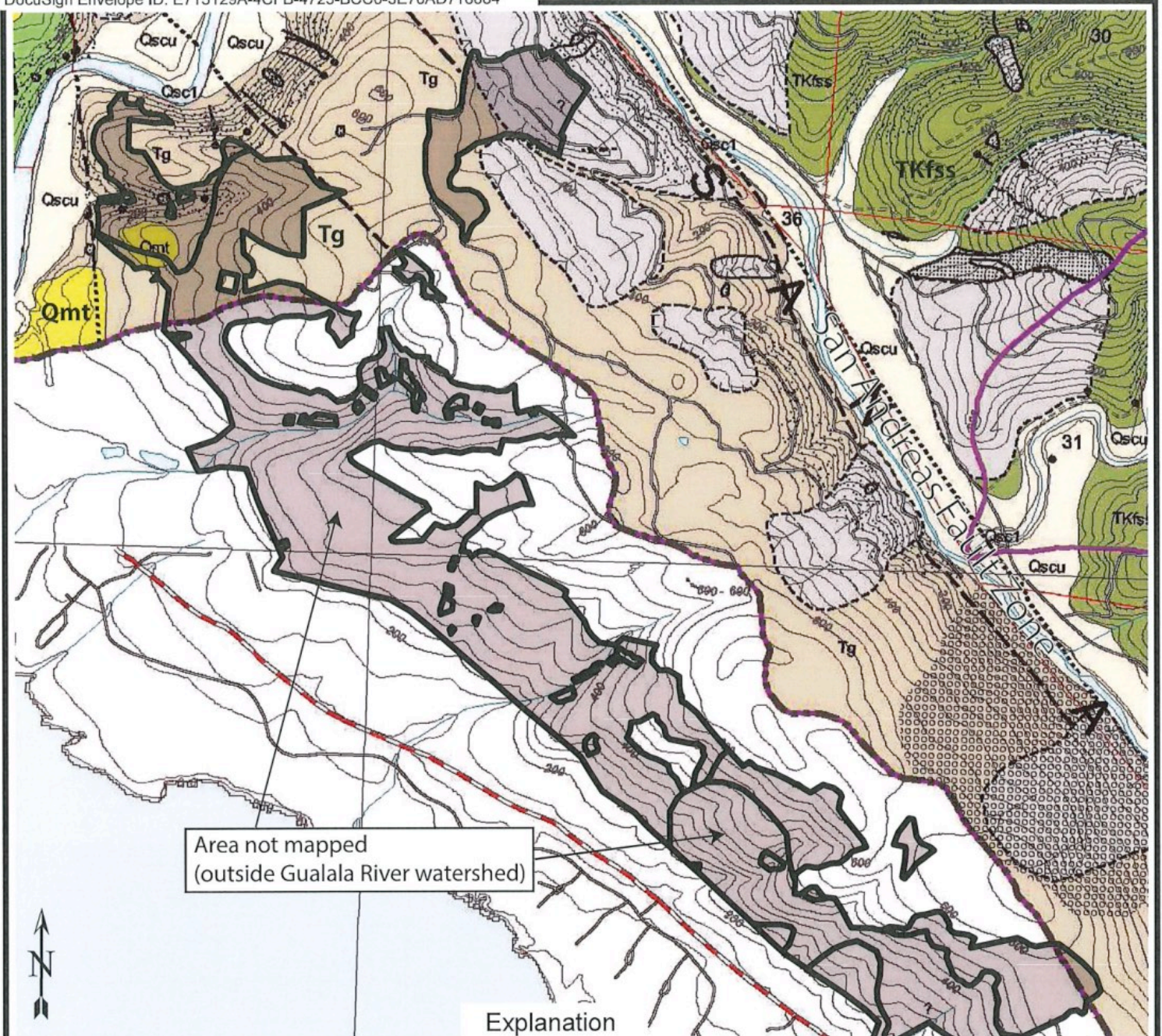


Figure 2. Illustration of a critical dip installed at a watercourse crossing to remove diversion potential (from DFG 2006). The critical dip should be constructed at the point where the potential for erosion and the loss of fill is minimized.

Source: Weaver, W.E., Weppner, E.M. and Hagans, D.K., 2015, Handbook for Forest, Ranch and Rural Roads.

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Area not mapped
(outside Gualala River watershed)



Explanation

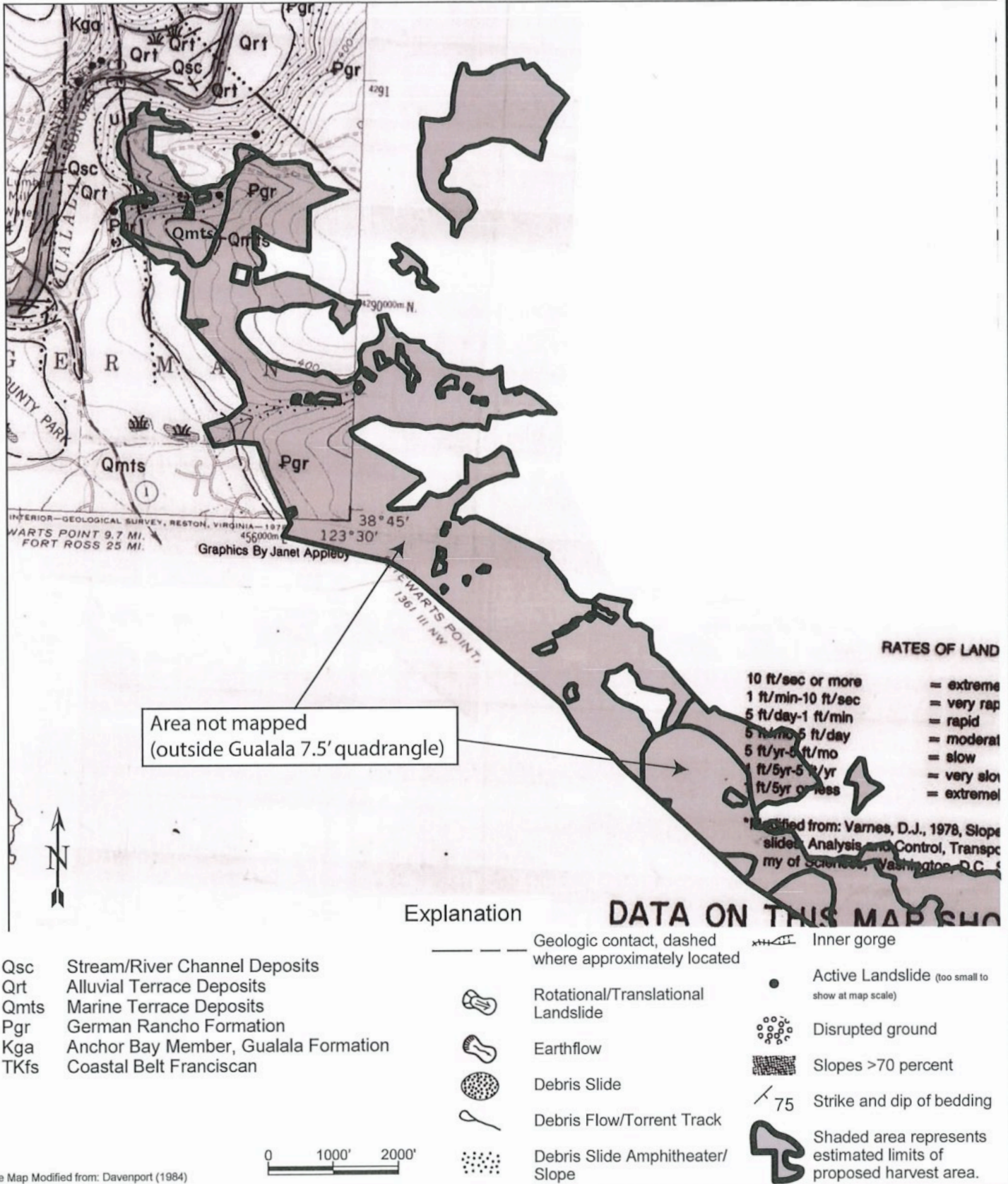
- | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Qmt Marine terrace deposits</p> <p>Qscu Undifferentiated stream channel deposits</p> <p>Qsc1 Stream channel deposits</p> <p>Tg German Rancho Formation</p> <p>TKfss Coastal Belt Franciscan - marine sandstone</p> | <p>Watershed sub-basin boundary</p> <p>Geologic contact, dashed where approximately located</p> <p>Rotational/Translational Landslide</p> <p>Earthflow</p> <p>Debris Slide</p> <p>Debris Flow/Torrent Track</p> <p>Debris Slide Amphitheater/Slope</p> | <p>Inner gorge</p> <p>Active Landslide (too small to show at map scale)</p> <p>Disrupted ground</p> <p>Slopes >70 percent</p> <p>Strike and dip of bedding 75</p> <p>Shaded area represents estimated limits of proposed harvest area.</p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Base Map Modified from: Fuller and others (2002)

Date: 1/2024	Regional Geologic Map To Accompany Engineering Geologic Review of THP 1-23-00099 SON	Figure: 2
Scale: 1" = 2000'	357.33 Additional Page 2/5/2024	

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Date: 1/2024

Scale: 1" = 2000'

Regional Geologic Map
To Accompany
Engineering Geologic Review of
1-23-00099 SON 357.34

Figure:

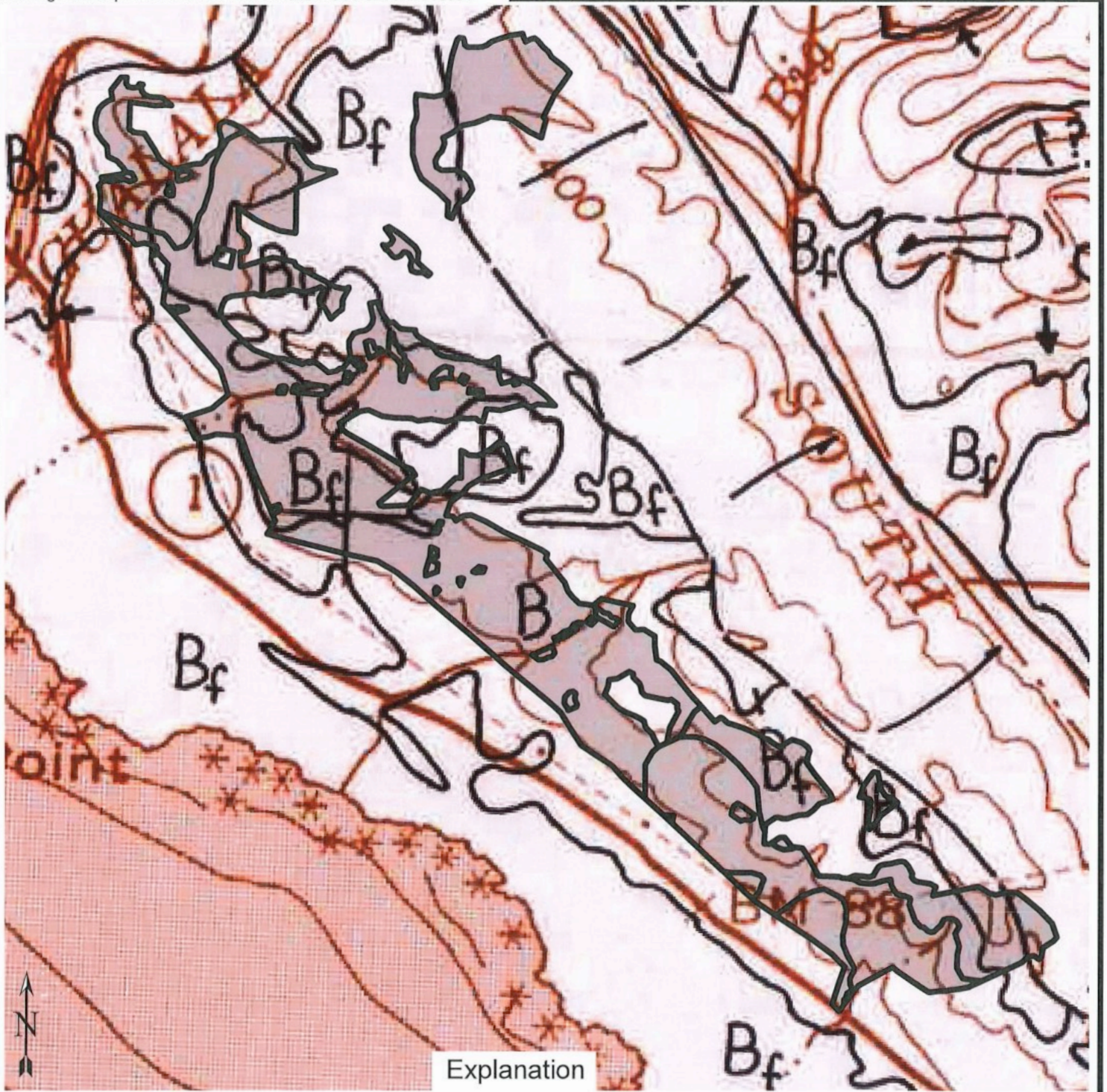
3

Additional Page 215/2024





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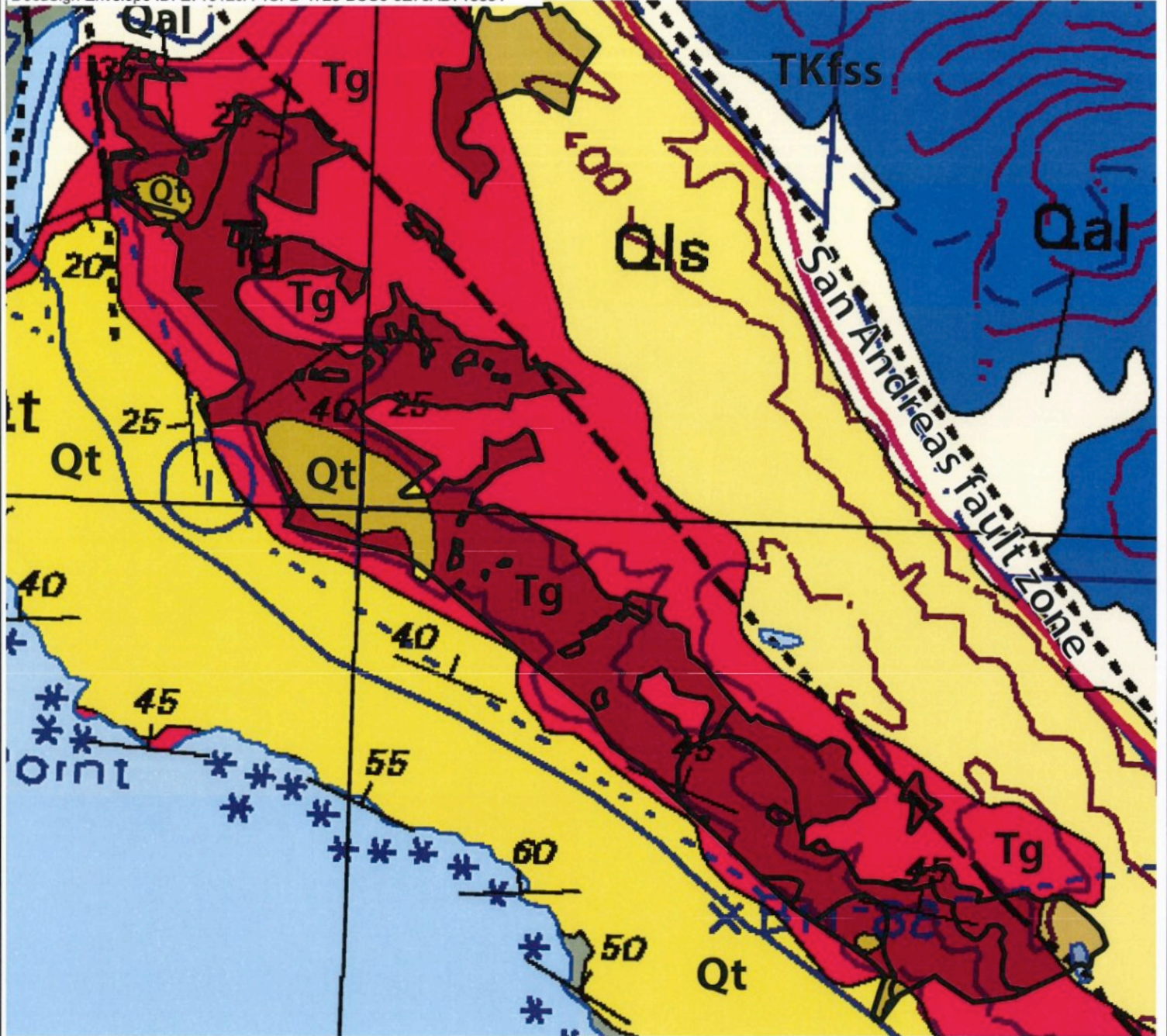
Explanation

-  Shaded area represents estimated limits of proposed harvest area.
-  Landslide
-  Questionable Landslide
-  Landslide or severe soil creep too small to be outlined at map scale
- Bf = locally level areas within hilly terrain; may be underlain or bounded by unstable or potentially unstable rock materials
- B = areas of relatively stable rock and soil units, on slopes greater than 15%, containing few landslides

0 1000' 2000'
Base Map: Huffman and Armstrong, 1980

Date: 1/2024	Regional Landslide Map	Figure:
Scale: 1" = 2000'	To Accompany	4
	Engineering Geologic Review of THP 1-23-00099 SON 357.35	RECEIVED 02/05/2024 COAST AREA OFFICE RESOURCE MANAGEMENT

Additional Page 215/2024



Explanation

- Qal Alluvial fan and fluvial deposits
- Qls Landslide deposits
- Qt Alluvial and marine terrace deposits
- Tg German Rancho Formation
- TKfss Franciscan Complex - Coastal Belt Sandstone

- — — Geologic contact, dashed where approximately located
- — — Fault, dashed where approximately located
- — — magenta is Quaternary active fault, dashed where approx. located

- 75 Strike and dip of bedding
- Shaded area represents estimated limits of proposed harvest area.

Base Map: Modified from Blake and others (2002)

0 1000' 2000'



Date: 1/2024

Scale: 1" = 2000'

Regional Geologic Map
 To Accompany
 Engineering Geologic Review of
 THP 1-23-00099 SON 357.36

Figure:

1

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Unstable Area Research Process- Steam Donkey THP

During THP preparation, the RPF examined the following past THPs for previous unstable areas:

1-00-360SON, 1-00-443SON, 1-05-146 SON, 1-10-007SON, 1-15-042SON and 1-17-049SON.

The past plan maps all had multiple landslide features mapped as represented by points, with the majority being in the WLPZ of a watercourse. Some landslide features were also mapped just outside of and adjacent to the THP boundary.

The GRT watershed landslide inventory and database also included points within the plan area of previously identified features, including aerial analysis by Tim Best, CEG.

LiDAR imagery was also used to evaluate slope stability in the THP. The majority of past mapped unstable areas are very subtle or unidentifiable in the imagery. The LiDAR also revealed areas that were not previously mapped or protected.

Published geologic maps showed previous mapping of debris slide slopes and disturbed ground mainly in the northern portion of the plan area but lacks landslide information for the majority of the plan area.

357.37

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Steam Donkey THP

**GRT Watershed Stream Monitoring Information and
Completed Road Work Information**

Stream Monitoring Report

Ownerships: All
 Visit Purpose: All
 Planning Watersheds: Mouth of the Gualala River

Station Number	Miles Up Name Stream	Year	Temperature		LWD Bank Full >8 In. & >4 Ft or >10 CuFt		Substrate		Streambed (Thalweg)			Riparian Zone				Fish or Redds per Mile			Aquatic Macroinvertebrates		
			Seasonal Maximum	MWAT	CuFt/ 1000'	Pieces/ 1000'	>0.85 mm	D50	Slope	VI	A/D	Canopy % WLPZ	Basal Cr.	Tallest Area	Tree	Coho	SH	Redds (1+)	Richness Simpson	Hilsenhoff Russian R Index	% Dominant
833	033	3.56	2017													0	138				
225	SFG	4.35	1995	24.6	20.3																
225	SFG	4.35	1997	22.1	20.5																
225	SFG	4.35	2013	22.9	20.1																
225	SFG	4.36	2017	22.9	19.7																
225	SFG	4.36	2018	22.5	18.7																
16	280	5.13	2009						0.1%	22											
16	280	5.13	2012							27	0.02										
19	SFGr	5.13	2009						0.1%	28											
19	SFGr	5.13	2012						0.2%	28	0.06										
17	295	5.25	2009						0.2%	25											
17	295	5.25	2012							23	0.05										
18	310	5.87	2009						0.2%	32											
18	310	5.87	2012							29	0.09										
20	370	6.77	2009						0.3%	20											
20	370	6.77	2013							20	-0.27										
225	SFG	7.39	1995	23.4	19.9																
225	SFG	7.39	1996	22.1	19.0																
225	SFG	7.39	1997	25.6	20.5																
402	SFG	7.77	1998	22.1	19.7										0	961					
402	SFG	7.77	1999			1,473	33	16	0.3%	29		76%	25%	204	203	0	400				
402	SFG	7.77	2000	22.4	18.9										0	268					
402	SFG	7.77	2001												0	153					
402	SFG	7.77	2002												0	121					
402	SFG	7.77	2008			1,391	31	19	0.4%	31	-0.11				0	1,327					
402	SFG	7.77	2016	20.2	17.6																
402	SFG	7.77	2018	19.4	17.7																
402	SFG	7.77	2019	20.2	18.8																

352

Station Number	Miles Up Stream	Year	Temperature		LWD Bank Full >8 In & >4 Ft or >10 CuFt		Substrate		Streambed (Thalweg)			Riparian Zone			Fish or Redds per Mile			Aquatic Macroinvertebrates			
			Seasonal Maximum	MWAT	CuFt/ 1000'	Pieces/ 1000'	>0.85 mm	D50	Slope	VI	A/D	Canopy % WLPZ	Basal Cr.	Tallest Area Tree	Coho	SH	Redds (1+)	Richness Simpson	Hilsenhoff Russian R	% Dominant Index	
402	SFG	7.77	2020	19.0	18.2																
402	SFG	7.77	2021	17.5	16.9																
402	SFG	7.77	2022	19.8	18.0																
230	SFG	9.32	1995	22.9	18.9																
230	SFG	9.32	1996	21.8	18.4																
230	SFG	9.32	1997	24.4	22.3																
230	SFG	9.32	1998	22.6	19.5																
230	SFG	9.32	2009	20.6	17.6																
230	SFG	9.32	2011	20.2	17.6																
230	SFG	9.32	2012	19.4	17.0																
230	SFG	9.32	2014	18.7	17.2																
230	SFG	9.32	2017	21.0	18.2																
230	SFG	9.32	2018	19.4	17.2																
230	SFG	9.32	2019	20.2	18.3																
South Fork Gualala River			Avg	21.4	18.8	1,432	32	19	0.2%	26	-0.03	76%	26%	204	203	0	481				
Hydrologic Uni SF Gualala			Avg	21.4	18.8	1,432	32	19	0.2%	26	-0.03	76%	26%	204	203	0	481				

300

Station Number	Miles Up Stream	Year	Temperature		LWD Bank Full >6 In & >4 Ft or >10 CuFt		Substrate		Streambed (Thalweg)			Riparian Zone			Fish or Redds per Mile		Aquatic Macroinvertebrates					
			Seasonal Maximum	MWAT	CuFt/ 1000'	Pieces/ 1000'	>0.85 mm	D50	Slope	VI	A/D	Canopy % WLPZ	Basal Cr.	Tallest Tree	Coho	SH (1+)	Redds	Richness Simpson	Hilsenhoff	% Dominant Russian R Index		
			Avg	21.4	18.8	1,432	32	19	0.2%	26	-0.03	76%	26%	204	203	0	481					
			Min	17.5	16.9	1,391	31	18	0.1%	20	-0.3	76%	26%	204	203	0	121					
			Max	25.6	22.3	1,473	33	19	0.4%	32	0.09	76%	26%	204	203	0	1,327					
Old Growth Watersheds (HRSP)			18.5	16.6			21.6%	62										26.2	0.69			
Poor-Normal-Good																		26-35	.8-.89	4.5-3.1	12-17	39-15
NCWQCB Target			18.3	16.8			<14%															

<p style="text-align: center;">Temperature</p> <ul style="list-style-type: none"> Seasonal Maximum – The highest water temperature recorded during the summer. Maximum weekly average temperature (MWAT) - The highest average temperature for any seven day rolling average 	<p style="text-align: center;">Large Woody Debris (LWD)</p> <ul style="list-style-type: none"> LWD must be at least 6 inches on the small end and longer than 4 feet. Cubic Feet per 1,000 feet – The cubic volume of LWD located between the bankfull lines. Pieces per 1,000' – The number of LWD pieces per 1,000' 	<p style="text-align: center;">Stream Substrate</p> <ul style="list-style-type: none"> <0.85mm – The percent fines less than 0.85 millimeters in a McNeal sample. D50- The pebble size of the median pebble of a 100 pebble sample. Three sample sites on each reach are averaged. 	<p style="text-align: center;">Fish Surveys</p> <ul style="list-style-type: none"> Presence/absence snorkel surveys also estimate fish numbers per mile. Coho – Coho salmon any age. SH (1+) – Steelhead one year old or older. Redds - Number of salmon spawning nests found per mile during the season.
<p style="text-align: center;">Streambed (Thalweg) Survey</p> <ul style="list-style-type: none"> Slope – the slope of the channel. VI – The variation index is the [(SD of residual depth/bank full depth) * 100]. This is a way of quantifying roughness and hence suitability for fish. Greater than 20 is a good indication of recovery. A/D – The change in elevation of the channel (aggradation or degradation) relative to the first year of measurement. 	<p style="text-align: center;">Riparian Condition</p> <ul style="list-style-type: none"> Canopy Cover percent as measured with a spherical densiometer. Every 200', canopy percent is measured in the center of the channel. And at bank full and 50' into the riparian zone from bankfull on both sides of the channel. Four measurements are averaged at each point. WLPZ (Watercourse and Lake Protection Zone) – The average of all the measurements taken on either side of the channel 50' into the riparian zone. Cr. – The average of all the measurements taken in the center of the channel. Riparian inventory plots were locate both sides of the channel every 200' Basal Area – Is the average basal area in square feet of all the riparian plots Tallest Tree – Is the tallest tree measured on the riparian plots. 	<p style="text-align: center;">Macroinvertebrates</p> <ul style="list-style-type: none"> Richness - Total number of Genuses represented. Simpson Diversity Index – Measures the evenness of species diversity Hilsenhoff – This is a locally modified Hilsenhoff index. It indicates levels of organic pollution Russian River Index – A localized index that combines several standard metrics Percent Dominant Taxon – this is a species distribution index 	

Completed Road Work: Mouth GualalaPWS

Hydrologic Unit All
Planning Watershed Mouth of the Gualala River
Road # All **From Mi** All **To Mi** All
THP All **From Date** 1/1/1980 **To Date** 5/25/2023
Repair type All
Priority All
Road Class All

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
0	2912	0.000	Pehl	Pehl	04-201	Lotus	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2912	0.000	Unk	11/15/2005		1B104201SON	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Inspected THP erosion control implementation. All required measures implemented.																	
0	2420	0.000	Haschak	Pehl	04-201	Lotus	Temp. Crossing	THP Non-Road	II	0	0	0	0	0	0	\$0	0
Existing Skid	2420	0.000	AL	11/15/2005		ECP Not	Culv. Install	Medium	-	-	0	0	0	0	0	\$0	0
Install 6" or larger culvert for skid trail crossing if wet at time of operations. Pull all material, seed and mulch at close of operations.																	
0	2391	0.000	Haschak	Pehl	04-201	Lotus	Temp. Crossing	THP Non-Road	II	0	0	0	0	0	0	\$0	0
Existing Skid	2391	0.000	AL	11/15/2005		ECP Not	Culv. Install	Medium	-	-	0	0	0	0	0	\$0	0
Install 6" or larger culvert for skid trail crossing if wet at time of operations. Pull all material, seed and mulch at close of operations.																	
0	2738	0.000	Pehl	Pehl	02-174	Huckleberry	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2738	0.000	Unk	1/3/2006		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Roads overlap with Lotus. Inspected concurrently. No problems.																	
0	2737	0.000	Pehl	Pehl	03-098	Miller Ridge	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Perm.	2737	0.000	Unk	1/6/2006		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Roads overlap Redbud and Lotus. Inspected concurrently. No problems.																	
0	2911	0.000	Pehl	Pehl	04-201	Lotus	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2911	0.000	Unk	6/14/2006		1B104201SON	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Wet weather road inspection. Inspected roads appurtenant to Lotus THP. Roads in the South Fork Drainage are drivable and in good condition. Windthrown tanoaks and small associated bank slumps (not associated with watercourses) on the Wheatfield Fork roads.																	
0	4314	0.000	Pehl	Pehl	06-009	Ivy	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4314	0.000	Unk	10/12/2006		1B106009SON	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Inspected erosion control on Stanley Ridge. No problems.																	
0	2513	0.000	Haschak	Pehl	04-275	Redbud	Surface Drainage	Maintenance	N/A	0	0	0	0	0	0	\$78	0
Existing Skid	2513	0.000	AL	10/15/2006		ECP Not	Waterbar	Medium	-	-	0	0	1	2	0	\$0	0
An existing skid trail between skid trail crossing #17 (see yarding map) and point #18 is starting to form a class III from erosion. This skid trail shall get a long waterbar at the top above the painted stump and the waterbar will extend far enough to direct water to adjacent draw to the south. If skid trail is used below this point it shall be slash packed between the waterbar and the crossing at #17.																	
0	2455	0.000	Haschak	Pehl	04-201	Lotus	Temp. Crossing	THP Non-Road	II	0	0	0	0	0	0	\$0	0
Existing Skid	2455	0.000	AL	11/10/2005		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Install 6" or larger culvert for skid trail crossing if wet at time of operations. Pull all material, seed and mulch at close of operations.																	
0	4316	0.000	Pehl	Pehl	04-201	Lotus	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4316	0.000	Unk	11/10/2006		1B104201SON	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads, watercourse crossings, and erosion control. No problems.																	

Road #	GIS#	Mile Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
0	4313	0.000 Pehl	Pehl	06-009	Ivy	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4313	0.000 Unk	11/15/2006		1B106009SON	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings north of Rockpile and south of Buckeye. No problems.																
0	2454	0.000 Haschak	Pehl	04-251	Lotus	Temp. Crossing	THP Non-Road	1	0	0	0	0	0	0	\$0	0
Existing Skid	2454	0.000 AL	11/15/2006		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Install 6' or larger culvert for skid trail crossing if wet at time of operations. Pull all material, seed and mulch at close of operations.																
0	2996	0.000 Pehl	Pehl	04-275	Redbud	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2996	0.000 Unk	12/29/2006		Redbud	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems. Several trees across road limited access.																
0	2995	0.000 Pehl	Pehl	02-174	Fuckleberry	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2995	0.000 Unk	12/29/2006		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems. Several trees across road limited access.																
0	2989	0.000 Pehl	Pehl	01-392	Box of Rain	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2989	0.000 Unk	12/29/2006		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems. Several trees across road limited access.																
0	2997	0.000 Pehl	Pehl	04-201	Lotus	No Problem	THP LCP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2997	0.000 Unk	12/29/2006		1B104201SON	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems. Several trees across road limited access.																
0	2998	0.000 Pehl	Pehl	06-009	Ivy	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2998	0.000 Unk	1/2/2007		1B106009SON	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings south of Buckeye Creek. No problems.																
0	2994	0.000 Pehl	Pehl	03-008	Miller ridge	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2994	0.000 Unk	1/2/2007		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems. Several trees across road limited access.																
0	2999	0.000 Pehl	Pehl	06-009	Ivy	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2999	0.000 Unk	1/3/2007		1B106009SON	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings north of Rockpile. No problems.																
0	4464	0.000 Pehl	Pehl	04-275	Redbud	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4464	0.000 Unk	1/9/2007		Redbud	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																
0	4230	0.000 Pehl	Pehl	03-008	Miller ridge	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4230	0.000 Unk	5/29/2007		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems. Roads overlap with Redbud and Lotus THPs.																
0	4222	0.000 Pehl	Pehl	04-275	Redbud	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4222	0.000 Unk	5/29/2007		Redbud	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems. Cleared trees from roads.																
0	4221	0.000 Pehl	Pehl	04-201	Lotus	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4221	0.000 Unk	5/29/2007		1B104201SON	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems. Cleared road of windfall trees.																

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
0	4228	0.000	Pehl	Pehl	06-009	Ivy	No Problem	THP ECP	N/A		0	0	0	0	0	\$0	0
Private Seasonal	4228	0.000	Unk	5/30/2007		1B105009SON	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings north of Rockpile and south of Buckeye. No problems.																	
0	4233	0.000	Pehl	Pehl	01-392	Box of Rain	No Problem	THP Maint Insp	N/A		0	0	0	0	0	\$0	0
Private Seasonal	4233	0.000	Unk	5/31/2007		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems. Cleared trees from roads.																	
0	2567	0.000	Haszhak	Pehl	06-009	Ivy	Surface Drainage	Maintenance	N/A		0	0	0	0	0	\$100	200
Existing Skid	2567	0.000	Unk	9/26/2007		1B106009SON	Waterbar	Medium	-	-	0	0	0	0	0	\$1	200
Overland flow is concentrating at this point. Below this point erosion and slope destabilization is occurring. Place extra large and extra long waterbar so that water drains to the north.																	
0	4415	0.000	Pehl	Pehl	01-392	Box of Rain	No Problem	THP Maint Insp	N/A		0	0	0	0	0	\$0	0
Private Seasonal	4415	0.000	Unk	11/8/2007		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	4394	0.000	Pehl	Pehl	04-275	Redbud	No Problem	THP ECP	N/A		0	0	0	0	0	\$0	0
Private Seasonal	4394	0.000	Unk	11/2/2007		Redbud	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	4460	0.000	Pehl	Pehl	01-392	Box of Rain	No Problem	THP Maint Insp	N/A		0	0	0	0	0	\$0	0
Private Seasonal	4460	0.000	Unk	1/9/2008		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	4882	0.000	Pehl	Pehl	07-155	Willow	No Problem	THP ECP	N/A		0	0	0	0	0	\$0	0
Private Seasonal	4882	0.000	Unk	1/14/2008		1B107155SON	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. All winterization completed. No problems.																	
0	4891	0.000	Pehl	Pehl	04-275	Redbud	No Problem	THP Maint Insp	N/A		0	0	0	0	0	\$0	0
Private Seasonal	4891	0.000	Unk	11/14/2008		Redbud	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	4903	0.000	Pehl	Pehl	01-392	Box of Rain	No Problem	THP Maint Insp	N/A		0	0	0	0	0	\$0	0
Private Seasonal	4903	0.000	Unk	11/7/2008		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	5295	0.000	Pehl	Pehl	07-155	Willow	No Problem	THP ECP	N/A		0	0	0	0	0	\$0	0
Private Seasonal	5295	0.000	Unk	2/13/2009		1B107155SON	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	5334	0.000	Pehl	Pehl	07-155	Willow	No Problem	THP ECP	N/A		0	0	0	0	0	\$0	0
Private Seasonal	5334	0.000	Unk	5/14/2009		1B107155SON	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	5376	0.000	Pehl	Pehl	07-155	Willow	No Problem	THP ECP	N/A		0	0	0	0	0	\$0	0
Private Seasonal	5376	0.000	Unk	10/14/2009		1B107155SON	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems. Significant recent rainfall, but small watercourses not yet flowing.																	
0	5384	0.000	Pehl	Pehl	04-275	Redbud	No Problem	THP Maint Insp	N/A		0	0	0	0	0	\$0	0
Private Seasonal	5384	0.000	Unk	10-21/2009		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	

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Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
0	5445	0.000	Pehl	Pehl	07-155	Willow	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5445	0.000	Unk	3/1/2010		1B107155SON	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	5447	0.000	Pehl	Pehl	07-155	Willow	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5447	0.000	Unk	4/22/2010		1B107155SON	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Completion Report Inspection with Jerry Fin of CDF. Inspected roads and watercourse crossings. No problems.																	
0	5537	0.000	Pehl	Pehl	07-155	Willow	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5537	0.000	Unk	10/29/2010		1B107155SON	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings along the SF Gualala River. No problems.																	
0	4575	0.000	Haschak	Pehl	08-090	Saker	Temp. Crossing	THP Non-Road	III	0	0	0	0	0	0	\$0	0
Existing Skid	4575	0.000	Unk	10/30/2010		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Skid trail crossing on very shallow class III. Install temporary pipe if wet at time of operations. Scrape out any fill that becomes deposited in crossing at close but don't dig it out below existing grade. (Crossing was not used.)																	
0	4574	0.000	Haschak	Pehl	08-090	Saker	Temp. Crossing	THP Non-Road	II	0	0	0	0	0	0	\$0	0
Existing Skid	4574	0.000	Unk	10/30/2010		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Skid trail crossing on very shallow class II. Install temporary pipe if wet at time of operations. Scrape out any fill that becomes deposited in crossing at close but don't dig it out below existing grade. (Crossing not used. Not feasible. No in-lieu practice addressed in plan.)																	
0	4530	0.000	Haschak	Pehl	08-090	Saker	Temp. Crossing	THP Non-Road	III	0	0	0	0	0	0	\$0	0
Existing Skid	4530	0.000	Unk	10/30/2010		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
crossing of minor class III dip out at close of operations																	
0	4609	0.000	Haschak	Pehl	08-090	Saker	Surface Drainage	THP Non-Road	N/A	0	0	0	0	0	0	\$0	0
Existing Skid	4609	0.000	Unk	10/30/2010		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
This 180' section of thru cut skid trail will have a large ber placed at the top of it and be slash packed for the length of it.																	
0	2235	0.000	Haschak	Pehl	08-090	Saker	Temp. Crossing	THP Non-Road	III	0	0	0	0	0	0	\$0	0
Existing Skid	2235	0.000	Unk	10/30/2010		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Skid crossing on class III install temp. pipe if wet at time of operations (4" pipe). Dip out at close of operations.																	
0	4534	0.000	Haschak	Pehl	08-090	Saker	Temp. Crossing	THP App. Rd.	II	0	0	0	0	0	0	\$0	0
Existing Skid	4534	0.000	Unk	10/30/2010		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Skid crossing on minor class II. If water is present at time of operations install temporary 4" pipe. Scrape off any fill to present grade at close of operations. Use flagged skid trail on south side of this crossing. (Crossing not used.)																	
0	4528	0.000	Haschak	Pehl	08-090	Saker	Surface Drainage	THP Non-Road	Spr.	0	0	0	0	0	0	\$0	0
Existing Skid	4528	0.000	Unk	10/30/2010		ECP Not	Culv. Install	Medium	-	-	0	0	0	0	0	\$0	0
small spring in skid trail. Install 4" or larger spring drain pipe if wet at time of operations. (Not used)																	
0	4523	0.000	Haschak	Pehl	08-090	Saker	Temp. Crossing	THP Non-Road	III	0	0	0	0	0	0	\$0	0
Existing Skid	4523	0.000	Unk	10/30/2010		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
During last entry many years ago dip out was placed wrong. During this entry place dip out at highest point in the watercourse where skid trail crosses and direct toward south side of large stump. Move piece of large woody debris that is diverting watercourse down skid trail.																	

Road #	GIS#	Mile Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
0	5547	0.000 Pehl	Pehl	08-090	Saker	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5547	0.000 Unk	11/14/2010		1B108090SON	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. Road surfaces soft. Erosion control and drainage are functioning. No problems.																
0	5553	0.000 Pehl	Pehl	08-090	Saker	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5553	0.000 Unk	11/30/2010		1B108090SON	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. Erosion control and drainage are functioning. No problems.																
0	5575	0.000 Pehl	Pehl	08-090	Saker	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5575	0.000 Unk	1/7/2011		1B108090SON	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. Erosion control and drainage are functioning. Outlet of culvert at RP 5 has slash over it. No other problems.																
0	5583	0.000 Pehl	Pehl	07-155	Willow	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5583	0.000 Unk	1/12/2011		1B107155SON	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																
0	5644	0.000 Pehl	Pehl	08-090	Saker	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5644	0.000 Unk	6/13/2011		1B108090SON	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. Erosion control and drainage structures are functioning. Outlet of culvert at RP 5 has slash over it. No other problems. Some minor clean up necessary prior to submitting THP completion.																
0	5769	0.000 Pehl	Pehl	08-090	Saker	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5769	0.000 Unk	10/13/2011		1B108090SON	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. Erosion control and drainage structures are functioning. Outlet of culvert at RP 5 has slash over it. No other problems. Some minor clean up necessary prior to submitting THP completion.																
0	5770	0.000 Pehl	Pehl	08-090	Saker	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5770	0.000 Unk	1/23/2012		1B108090SON	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																
0	5775	0.000 Pehl	Pehl	09-041	Cedar	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5775	0.000 Unk	3/22/2012		1B109041SON	No Action	Medium	-	-	0	0	0	0	0	\$0	0
No operations to date. Examined roads and watercourse crossings.																
0	5795	0.000 Pehl	Pehl	09-041	Cedar	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5795	0.000 Unk	6/4/2012		1B109041SON	No Action	Medium	-	-	0	0	0	0	0	\$0	0
No operations to date. Examined roads and watercourse crossings.																
0	5799	0.000 Pehl	Pehl	08-090	Saker	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5799	0.000 Unk	6/14/2012		1B108090SON	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems. Submitted Final Completion Report to CALFIRE.																
0	4932	0.000 Haschak	Pehl	09-041	Cedar	Temp. Crossing	THP Non-Road	II	0	0	0	0	0	0	\$0	0
Existing Skid	4932	0.000 Unk	10/15/2013		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Dip out any loose material. Mound up soil on south side of crossing so that class III stays in channel.																
0	4742	0.000 Haschak	Pehl	09-041	Cedar	Temp. Crossing	THP Non-Road	III	0	0	0	0	0	0	\$0	0
Existing Skid	4742	0.000 Unk	10/15/2013		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Very minor class III crossing. Dip out at close of operations.																

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Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
0	4743	0.000	Haschak Pehl	09-041	Cedar		Temp. Crossing	THP Non-Road	Spr.		0	0	0	0	0	\$0	0
Existing Skid	4743	0.000	Unk	10/15/2013		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Bank seep in skid trail. Install drain pipe if wet at time of operations.																	
0	2237	0.000	Haschak Bennett	11-087	Kestrel		Temp. Crossing	THP Non-Road	III		0	0	0	0	0	\$0	0
Existing Skid	2237	0.000	R&S	2/3/2015		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
skid crossing on class III install temp. pipe if wet at time of operations (4" pipe). This class III is barely visible and does not need to be dipped out since that would just create unnecessary soil disturbance.																	
0	2253	0.000	Haschak Bennett	11-087	Kestrel		Temp. Crossing	THP Non-Road	III		0	0	0	0	0	\$0	0
Existing Skid	2253	0.000	R&S	2/3/2015		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Skid crossing on class III install temp. pipe if wet at time of operations (4" pipe). Dip out at close of operations.																	
0	2254	0.000	Haschak Bennett	11-087	Kestrel		Temp. Crossing	THP Non-Road	III		0	0	0	0	0	\$0	0
Existing Skid	2254	0.000	R&S	2/3/2015		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Skid crossing on class III install temp. pipe if wet at time of operations (4" pipe). Dip out at close of operations.																	
0	5810	0.000	Haschak Bennett	12-087	Alder		Temp. Crossing	THP Non-Road	III		0	0	0	0	0	\$0	0
Existing Skid	5810	0.000	Unk	11/14/2015		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Install 4" or larger pipe if water is present at time of operations Dip out at close of operations. Crossing will not be used if unit is cable logged.																	
0	5811	0.000	Haschak Bennett	12-087	Alder		Temp. Crossing	THP Non-Road	III		0	0	0	0	0	\$0	0
Existing Skid	5811	0.000	Unk	11/14/2015		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Install 4" or larger pipe if water is present at time of operations. Dip out at close of operations. Crossing will not be used if unit is cable logged.																	
0	6444	0.000	Alden Alden	12-087	Alder		No Problem	THP ECP	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6444	0.000	Unk	12/16/2015		GWDR 1-12-087 SO	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads. No Problems																	
0	6444	0.000	Bennett	12-087	Alder		No Problem	THP ECP	N/A		0	0	0	0	0	\$0	0
Storm Proofed	6445	0.000		2/10/2016		GWDR 1-12-087 SO	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Inspected roads. No Problems																	
0	6444	0.000	Bennett	12-087	Alder		No Problem	THP ECP	N/A		0	0	0	0	0	\$0	0
Storm Proofed	6474	0.000		3/23/2016		GWDR 1-12-087 SO	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Inspected roads. No Problems																	
3	2584	0.000	Ghirani	Maintena	Maintenance		Surface Drainage	Maintenance	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6776	0.000	Unk	6/11/2019		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
flooding on road with no clear drainage																	
0	2634	0.000	Ghirani	Maintena	Maintenance		Culv.-EDP-Plug	Maintenance	N/A		0	0	0	0	0	\$0	0
Private Seasonal	5777	0.000	Unk	6/11/2019		ECP Not	Culv. Replace	High	-	-	0	0	0	0	0	\$0	0
pipe is completely plugged. Most water is flowing across road and into channel on the outside of the road. Erosion across road is occurring. Some water is flowing down the road and pooling.																	
0	2140	0.000	Ghirani	16-047	German South		Temp. Crossing	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6826	0.000	Unk	7/26/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
down cutting on outside edge of road.																	
0	5816	0.000	Ghirani	16-047	German South		Culv.	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	5825	0.000	Unk	7/26/2019		ECP Not	Culv. Maintenance	Medium	-	-	0	0	0	0	0	\$0	0

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Road #	GIS#	Mile	Plan	Final	HP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	RJ Pt	ECP Number	Solution	Priority/Schedule	Clid Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
0	2141	0.000		Ghirann	16-047	German South	Dip Rolling	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5827	0.000	Unk	7/26/2019		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
0	6469	0.000		Ghirann	16-047	German South	Temp. Crossing	THP Non-Road	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6823	0.000	Unk	7/26/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
0	2143	0.000		Ghirann	16-047	German South	Dip Rolling	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6830	0.000	Unk	7/26/2019		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
0	2138	0.000		Ghirann	16-047	German South	Temp. Crossing	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5822	0.000	Unk	7/26/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
0	2250	0.000		Ghirann	16-047	German South	Other	THP Non-Road	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6821	0.000	Unk	7/26/2019		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
0	2139	0.000		Ghirann	16-047	German South	Dip Rolling	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6824	0.000	Unk	7/26/2019		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
0	6465	0.000		Ghirann	16-047	German South	Temp. Crossing	THP Non-Road	N/A	0	0	0	0	0	0	\$0	0
Existing Skid	5819	0.000	Unk	7/26/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
0	2142	0.000		Ghirann	16-047	German South	Dip Rolling	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5829	0.000	Unk	7/26/2019		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
0	6466	0.000		Ghirann	16-047	German South	Temp. Crossing	THP Non-Road	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6818	0.000	Unk	7/26/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
0	2251	0.000		Ghirann	16-047	German South	Other	THP Non-Road	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6831	0.000	Unk	7/26/2019		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
0	2145	0.000		Ghirann	16-047	German South	Dip Rolling	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6832	0.000	Unk	7/26/2019		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
0	2146	0.000		Ghirann	16-047	German South	Temp. Crossing	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6833	0.000	Unk	7/26/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
0	2149	0.000		Ghirann	16-047	German South	Dip Rolling	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5834	0.000	Unk	7/26/2019		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
standing water on road																	
0	6449	0.000		Ghirann	16-047	German South	Temp. Crossing	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6835	0.000	Unk	7/26/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
0	6412	0.000		Ghirann	16-047	German South	Temp. Crossing	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6836	0.000	Unk	7/26/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
0	6411	0.000		Ghirann	16-047	German South	Temp. Crossing	THP Non-Road	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6837	0.000	Unk	7/26/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
0	6452	0.000		Ghirann	16-047	German South	No Problem	THP Non-Road	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6838	0.000	Unk	7/26/2019		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0
0	6450	0.000		Ghirann	16-047	German South	Temp. Crossing	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6839	0.000	Unk	7/26/2019		ECP Not	Bridge - Temp	Medium	-	-	0	0	0	0	0	\$0	0
0	2150	0.000		Ghirann	16-047	German South	Dip Rolling	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6840	0.000	Unk	7/26/2019		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
0	6410	0.000		Ghirann	16-047	German South	Temp. Crossing	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6841	0.000	Unk	7/26/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
0	2251	0.000		Ghirann	16-047	German South	Temp. Crossing	THP Non-Road	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6828	0.000	Unk	7/26/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
0	59	0.000		Ghirann	16-047	German South	Culv.-Plug	THP Non-Road	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6806	0.000	Unk	7/26/2019		ECP Not	Culv. Maintenance	Medium	-	-	0	0	0	0	0	\$0	0
0	2151	0.000		Ghirann	16-047	German South	Channel Scour	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6842	0.000	Unk	7/26/2019		ECP Not	Remove Crossing	Medium	-	-	0	0	0	0	0	\$0	0
0	4521	0.000		Ghirann	16-047	German South	No Problem	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6793	0.000	Unk	7/26/2019		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
0	6468	0.000		Ghirann	16-047	German South	Other	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6794	0.000	Unk	7/26/2019		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
0	6455	0.000		Ghirann	16-047	German South	Temp. Crossing	THP Non-Road	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6795	0.000	Unk	7/26/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
0	6476	0.000		Ghirann	16-047	German South	Temp. Crossing	THP Non-Road	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6796	0.000	Unk	7/26/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
0	6477	0.000		Ghirann	16-317	German South	Temp. Crossing	THP Non-Road	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6797	0.000	Unk	7/26/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
0	6456	0.000		Ghirann	16-047	German South	Temp. Crossing	THP Non-Road	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6798	0.000	Unk	7/26/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
0	6457	0.000		Ghirann	16-047	German South	Temp. Crossing	THP Non-Road	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6799	0.000	Unk	7/26/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
0	6459	0.000		Ghirann	16-047	German South	Surface Drainage	THP Non-Road	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6800	0.000	Unk	7/26/2019		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
0	6453	0.000		Ghirann	16-047	German South	Temp. Crossing	THP Non-Road	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6801	0.000	Unk	7/26/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
0	6454	0.000		Ghirann	16-047	German South	Temp. Crossing	THP Non-Road	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5802	0.000	Unk	7/26/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
0	5489	0.000		Ghirann	16-047	German South	Other	THP Non-Road	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6803	0.000	Unk	7/26/2019		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
0	6467	0.000		Ghirann	90-231	German Rancho #1	Dip Rolling	THP Non-Road	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6820	0.000	Unk	7/26/2019		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
road has slash on it and is overgrown.																	
0	6462	0.000		Ghirann	16-047	German South	Temp. Crossing	THP Non-Road	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5805	0.000	Unk	7/26/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
0	2257	0.000		Ghirann	16-047	German South	Temp. Crossing	THP Non-Road	II	0	0	0	0	0	0	\$0	0
Existing Sid	6812	0.000	Unk	7/26/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
0	6464	0.000		Ghirann	16-047	German South	Temp. Crossing	THP Non-Road	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6817	0.000	Unk	7/26/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
0	6398	0.000		Ghirann	16-047	German South	Temp. Crossing	THP Non-Road	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6816	0.000	Unk	7/26/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
0	6463	0.000		Ghirann	15-047	German South	Temp. Crossing	THP Non-Road	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6815	0.000	Unk	7/25/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
0	742	0.000		Ghirann	15-047	German South	Culv.	Storm Proofing	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6904	0.000	Unk	7/26/2019		ECP Not	Culv. Replace	Medium	-	-	0	0	0	0	0	\$0	0
0	2249	0.000		Ghirann	16-047	German South	Other	THP Non-Road	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6813	0.000	Unk	7/26/2019		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
road saturated and small pools of water on road.																	
0	2222	0.000		Ghirann	16-047	German South	Temp. Crossing	THP Non-Road	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6811	0.000	Unk	7/26/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
0	6461	0.000		Ghirann	16-047	German South	Temp. Crossing	THP Non-Road	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6810	0.000	Unk	7/26/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
0	6409	0.000		Ghirann	16-047	German South	Ful. Road	THP Non-Road	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6809	0.000	Unk	7/26/2019		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
small land slide onto road, not blocking.																	
0	6477	0.000		Ghirann	16-047	German South	Culv.	THP Non-Road	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6808	0.000	Unk	7/26/2019		ECP Not	Culv. Maintenance	Medium	-	-	0	0	0	0	0	\$0	0
0	3224	0.000		Ghirann	16-047	German South	Temp. Crossing	THP Non-Road	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6807	0.000	Unk	7/26/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
0	2225	0.000		Ghirann	16-047	German South	Temp. Crossing	THP Non-Road	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6814	0.000	Unk	7/26/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
0	6284	0.000		Ghirann	15-033	Apple	Culv.	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6869	0.000	Unk	8/21/2019		ECP Not	Dip Critical	Medium	-	-	0	0	0	0	0	\$0	0
culv replaced																	
0	6251	0.000		Ghirann	15-033	Apple	Dip Rolling	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6865	0.000	Unk	8/21/2019		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
0	6280	0.000		Ghirann	15-033	Apple	Dip Rolling	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6867	0.000	Unk	8/21/2019		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
0	6279	0.000		Ghirann	15-033	Apple	Dip Rolling	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6866	0.000	Unk	8/21/2019		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
0	1959	0.000		Ghirann	15-033	Apple	Culv.	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6848	0.000	Unk	8/21/2019		ECP Not	Culv. Replace	Medium	-	-	0	0	0	0	0	\$0	0
0	6271	0.000		Ghirann	15-033	Apple	Culv. Ditch Relief	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6851	0.000	Unk	8/21/2019		ECP Not	Culv. Ditch Relief	Medium	-	-	0	0	0	0	0	\$0	0
0	1961	0.000		Ghirann	15-033	Apple	Culv.	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6849	0.000	Unk	8/21/2019		ECP Not	Culv. Replace	Medium	-	-	0	0	0	0	0	\$0	0
0	6282	0.000		Ghirann	15-033	Apple	Dip Rolling	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6870	0.000	Unk	8/21/2019		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0

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Road #	GIS#	Mile Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Laber	Yds	S/FSD	FSD Yds
0	6254	0.000		Ghirann	15-033	Apple	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6877	0.000	Unk	8/21/2019		ECP Not	Medium	-	-	0	0	0	0	0	\$0	0
0	6101	0.000		Ghirann	15-033	Apple	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6872	0.000	Unk	8/21/2019		ECP Not	Medium	-	-	0	0	0	0	0	\$0	0
0	6278	0.000		Ghirann	15-033	Apple	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6865	0.000	Unk	8/21/2019		ECP Not	Medium	-	-	0	0	0	0	0	\$0	0
0	1963	0.000		Ghirann	15-033	Apple	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6852	0.000	Unk	8/21/2019		ECP Not	Medium	-	-	0	0	0	0	0	\$0	0
0	6270	0.000		Ghirann	15-033	Apple	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6850	0.000	Unk	8/21/2019		ECP Not	Medium	-	-	0	0	0	0	0	\$0	0
0	6265	0.000		Ghirann	15-033	Apple	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6879	0.000	Unk	8/21/2019		ECP Not	Medium	-	-	0	0	0	0	0	\$0	0
0	6267	0.000		Ghirann	15-033	Apple	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6847	0.000	Unk	8/21/2019		ECP Not	Medium	-	-	0	0	0	0	0	\$0	0
0	6249	0.000		Ghirann	15-033	Apple	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6876	0.000	Unk	8/21/2019		ECP Not	Medium	-	-	0	0	0	0	0	\$0	0
0	6026	0.000		Ghirann	15-033	Apple	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6846	0.000	Unk	8/21/2019		ECP Not	Medium	-	-	0	0	0	0	0	\$0	0
0	6058	0.000		Ghirann	15-033	Apple	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6845	0.000	Unk	8/21/2019		ECP Not	Medium	-	-	0	0	0	0	0	\$0	0
0	6250	0.000		Ghirann	15-033	Apple	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6877	0.000	Unk	8/21/2019		ECP Not	Medium	-	-	0	0	0	0	0	\$0	0
0	6057	0.000		Ghirann	15-033	Apple	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6844	0.000	Unk	8/21/2019		ECP Not	Medium	-	-	0	0	0	0	0	\$0	0
0	6285	0.000		Ghirann	15-033	Apple	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6874	0.000	Unk	8/21/2019		ECP Not	Medium	-	-	0	0	0	0	0	\$0	0
0	1970	0.000		Ghirann	15-033	Apple	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6856	0.000	Unk	8/21/2019		ECP Not	Medium	-	-	0	0	0	0	0	\$0	0
0	6257	0.000		Ghirann	15-033	Apple	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6862	0.000	Unk	8/21/2019		ECP Not	Medium	-	-	0	0	0	0	0	\$0	0
0	1968	0.000		Ghirann	15-033	Apple	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6853	0.000	Unk	8/21/2019		ECP Not	Medium	-	-	0	0	0	0	0	\$0	0
0	2483	0.000		Ghirann	15-033	Apple	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6860	0.000	Unk	8/21/2019		ECP Not	Medium	-	-	0	0	0	0	0	\$0	0
	no culv found, appears armoured															
0	6295	0.000		Ghirann	15-033	Apple	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6859	0.000	Unk	8/21/2019		ECP Not	Medium	-	-	0	0	0	0	0	\$0	0
0	6287	0.000		Ghirann	15-033	Apple	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6863	0.000	Unk	8/21/2019		ECP Not	Medium	-	-	0	0	0	0	0	\$0	0

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rc. Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
0	6295	0.000		Ghiram: 15-033		Apple	Dip Rolling	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5858	0.000	Unk	3/21/2019		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
0	6266	0.000		Ghiram: 15-033		Apple	Inside ditch	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6875	0.000	Unk	8/21/2019		ECP Not	Ditch - Clean	Medium	-	-	0	0	0	0	0	\$0	0
0	2479	0.000		Ghiram: 15-033		Apple	Culv.	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6857	0.000	Unk	8/21/2019		ECP Not	Culv. Install	Medium	-	-	0	0	0	0	0	\$0	0
0	2481	0.000		Ghiram: 15-033		Apple	Dip Rolling	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6861	0.000	Unk	8/21/2019		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
0	6275	0.000		Ghiram: 15-033		Apple	Dip Rolling	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6864	0.000	Unk	3/21/2019		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
0	6259	0.000		Ghiram: 15-033		Apple	Dip Rolling	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6855	0.000	Unk	8/21/2019		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
0	1965	0.000		Ghiram: 15-033		Apple	Culv.	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5854	0.000	Unk	8/21/2019		ECP Not	Culv. Maintenance	Medium	-	-	0	0	0	0	0	\$0	0
0	6599	0.000	Pera	Reynold 19-051		Hazel	Temp. Crossing	THP Non-Road	III	0	0	0	0	0	0	\$0	0
Existing Skid	6699	0.000	Unk	6/29/2020		GWDR-1-19-00051	Temp. Crossing	THP Low	-	-	0	0	0	0	0	\$0	0
Existing skid trail crossing anticipated to be dry at the time of use. Refer to THP item 18 for use period and treatment.																	
0	6696	0.000	Pera	Reynold 19-051		Hazel	Temp. Crossing	THP Non-Road	II	0	0	0	0	0	0	\$0	0
Existing Skid	6696	0.000	Unk	6/29/2020		GWDR-1-19-00051	Temp. Crossing	THP Med	-	-	0	0	0	0	0	\$0	0
Down slope watercourse/crossing from ID #322. This temporary crossing is an existing feature with an approximate 12 foot wide trail bed. The alignment is perpendicular to the original channel and approach is less than 3%. Being located on an alluvial flat, the channel is aggraded with an approximate 18" wide cross section and 2" depth, very shallow. Use and removal of the temporary skid trail crossing shall be limited to the non-winter period and treated per the plan.																	
6/29/20: This crossing was not used during operations.																	
0	5836	0.100	Haschak Bennett	12-087		Alder	Temp. Crossing	THP App. Rd.	III	0	0	0	0	0	0	\$0	0
THP Proposed	5836	0.000	Unk	11/14/2015		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Install 4" or larger pipe if water is present at time of operations. Dip out crossing prior to winter period. Create substantial mound or dirt on downhill side of crossing so that water goes straight across road instead of running down road as it did when this was used previously as a skid trail. Crossing will not be used if unit is cable logged.																	
0	743	0.350		Ghiram Maintena		Maintenance	Culv.	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5775	0.000	Unk	6/11/2019		ECP Not	Culv. Maintenance	Medium	-	-	0	0	0	0	0	\$0	0
down cutting at down spout.																	
0	1220	1.530		Ghiram Maintena		Maintenance	Culv-Plug	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6778	0.000	Unk	6/11/2019		ECP Not	Culv. Maintenance	Medium	-	-	0	0	0	0	0	\$0	0
inlet 90% buried, still water flowing well no build up of water.																	
0	4125	2.000	Haschak Peld	07-155		W3iew	Temp. Crossing	THP Non-Road	II	0	0	0	0	0	0	\$0	0
Existing Skid	4125	0.000	Unk	10.15/2008		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Install drain pipe large enough to handle any flow that might occur at spitter crossing. Pull all material and slope back banks at close.																	
0	5815	3.900		Ghiram: Maintena		Maintenance	Culv.	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6772	0.000	Unk	6/11/2019		ECP Not	Culv. Maintenance	Medium	-	-	0	0	0	0	0	\$0	0
projected pipe causing downcutting at outlet.																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	S/FSD	FSD Yds
0	4150	61.000	Haschak Pehl	07-155	Willow	Temp. Crossing	THP Non-Road	II		0	0	0	0	0	0	\$0	0
Existing Skid	4150	0.000	Unk	10/15/2008		ECP Not	Remove Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Pull down to channel grade. Pull banks to stable repose.																	
0	4154	62.000	Haschak Pehl	07-155	Willow	Temp. Crossing	THP Non-Road	II		0	0	0	3	0	0	\$563	0
Existing Skid	4154	0.000	R&S	8/25/2008		ECP Not	Remove Crossing	Medium	-	-	0	0	3	0	0	\$0	0
Install pipe adequate to handle anticipated flow if water is present at time of operations. Pull down to channel grade at close. Pull banks to stable repose.																	
0	4155	63.000	Haschak Pehl	07-155	Willow	Temp. Crossing	THP Non-Road	II		0	0	0	3	0	0	\$563	0
Existing Skid	4155	0.000	R&S	8/26/2008		ECP Not	Remove Crossing	Medium	-	-	0	3	3	0	0	\$0	0
Install pipe adequate to handle anticipated flow if water is present at time of operations. Pull down to channel grade. Pull banks to stable repose.																	
1.25	5815	3.900	Haschak Bennett	12-087	Alder	Surface Drainage	THP App. Rd.	N/A		0	0	0	0	0	0	\$0	0
Private Seasonal	5815	0.000	Unk	11/14/2015		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
In this area three hand dug waterbars have been draining a wet inside ditch. Install one or two rolling dips instead.																	
1.913492	1686	0.000	Pehl Pehl	Mairnena	Maintenance	Surface Drainage	Maintenance	N/A		0	0	0	0	0	0	\$232	122
Upgraded	1686	0.250	Su	7/11/2001		ECP Not	Dip Rolling	Medium	-	-	0	0	3	0	0	\$2	122
PG&E repairs.																	
1.913492	4531	0.250	Haschak Pehl	08-090	Saker	Temp. Crossing	THP App. Rd.	III		0	0	0	0	0	0	\$0	0
Private Seasonal	4531	0.000	Unk	10/30/2010		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Install temp pipe if wet at time of operations. Dip out at close of operations.																	
40.04	2038	0.000	Haschak Pehl	02-174	Huckleberry	Surface Drainage	THP Mitigation	N/A		0	0	0	0	0	0	\$0	0
Private Seasonal	2038	0.000	Unk	10/15/2003		ECP Not	Other	THP Med	-	-	0	0	0	0	0	\$0	0
if road surface is wet at time of operations install drain pipe or if you are unable to find source of water then place fabric covered by dirt or rock																	
40.05	1116	0.010	Alden Alden	Mairnena	Maintenance	No Problem	Maintenance	N/A		0	0	0	0	0	0	\$0	0
Private Seasonal	1116	0.000	Unk	12/5/2000		ECP Not	Gare	Low	-	-	0	0	0	0	0	\$0	0
40.05	1363	0.280	Lewicki Kelly	99-028	South Fork_98	Temp. Crossing	THP Mitigation	III		0	0	0	0	0	0	\$0	0
Private Seasonal	53	0.000	Unk	7/1/2000		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
Class III temporary crossing, culvert, cull logs, spitlar xing, etc.																	
40.05	1364	0.300	Haschak Pehl	07-155	Willow	Culv.	THP App. Rd.	III		0	0	0	0	0	0	\$0	0
Private Seasonal	4130	0.000	Unk	10/15/2008		ECP Not	Culv. Maintenance	Medium	-	-	0	0	0	0	0	\$0	0
Existing ford of class III. Mound up soil on south side of crossing so that water does not flow down road.																	
40.05	54	0.400	Lewicki Kelly	99-028	South Fork_98	Culv	THP... Net	III		0	0	0	0	0	0	\$0	0
Private Seasonal	54	0.000	Unk	7/1/2000		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0
WLPZ skid trail. Seed and muleh.																	
40.05	1362	0.440	McCant	Storm Pro	Storm Proofing	Culv.	Maintenance	III		0	0	0	3	2	0	\$530	0
Private Seasonal	1362	0.000	Unk	8/22/2008		ECP Not	Culv. Maintenance	Medium	24"	-	0	0	3	0	0	\$0	0
24" blow pipe on class 3 inlet and outlet over grown. 5' plunge at outlet. TREAT clean inlet and outlet rock below outlet with 1' to 3' rock																	
40.05	1362	0.440	Haschak Pehl	07-155	Willow	Culv.	THP App. Rd.	II		0	0	0	5	0	0	\$2,489	0
Private Seasonal	4124	0.000	R&S	8/22/2008		ECP Not	Culv. Replace	Medium	24"	30"	40	0	5	4	0	\$0	0
Replace culvert with 30" culvert or as an option pull crossing down to grade and slope back banks to stable repose																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
40.05	55	1.100	Lewicki Pehl	Pehl	99-028	South Fork_98	Other	THP Mitigation	II		0	0	0	0	0	\$0	0
Private Seasonal	55	0.000	Unk	7/1/2002		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
WLPZ landing; Rechanel Class II, straight across the road. Seed and mulch WLPZ landing and skid trail.																	
40.0547	4132	0.000	Haschak Pehl	Pehl	07-155	Willow	Spring	THP App. Rd.	Spr.		0	0	0	0	0	\$0	0
Private Seasonal	4132	0.000	Unk	10/5/2008		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
install drain pipe if wet at time of operations.																	
40.0547	56	0.100	Lewicki Kelly	Kelly	99-028	South Fork_98	Temp. Crossing	THP Mitigation	III		0	0	0	0	0	\$0	0
Private Seasonal	56	0.000	Unk	7/1/2000		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
Class III temporary crossing, Culvert, cull logs, etc.																	
40.0547	1365	0.120	Haschak Pehl	Pehl	07-155	Willow	Dip Rolling	THP App. Rd.	III		0	0	0	0	0	\$0	0
Private Seasonal	4129	0.000	Unk	10/5/2008		ECP Not	Excavate Soil	Medium	-	-	0	0	0	0	0	\$0	0
dipped class 3 with minor erosion dip has spoil pushed down outlet 10' remove spoil from outlet, re-construct dip																	
40.06	2043	0.300	Alden Alden	Alden	319(h)1	9-170-251-0B	Surface Drainage	Storm Proofing	N/A		0	0	0	29	0	\$6,175	244
Storm Proofed	2043	0.500	ME	7/2/2002		ECP Not	Dip Rolling	Medium	-	-	0	0	0	29	15	\$25	244
Tip and dip																	
40.06	2034	0.000	Haschak Pehl	Pehl	02-174	Huckleberry	Temp. Crossing	THP Mitigation	II		0	0	0	0	0	\$0	0
Existing Skid	2034	0.000	ME	10/15/2003		ECP Not	Temp. Crossing	THP High	-	-	0	0	0	0	0	\$0	0
During construction of this crossing do not cover adjacent riparian or wetland vegetation. If water is present at time of operations install temporary pipe adequate to handle flow. Remove fill and place in stable location prior to winter period.																	
40.06	2654	0.000	Pehl Pehl	Pehl	04-201	Lotus	No Problem	THP ECP	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2654	0.300	Unk	12/20/2005		1B104201SON	No Action	See Comments	-	-	0	0	0	0	0	\$0	0
Wet weather road inspection. No problems.																	
40.06	2655	0.300	Pehl Pehl	Pehl	02-174	Huckleberry	No Problem	THP Maint Insp	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2655	0.300	Unk	12/20/2005		ECP Not	No Action	See Comments	-	-	0	0	0	0	0	\$0	0
Wet weather road inspection. No problems.																	
40.06	2714	0.000	Pehl Pehl	Pehl	04-201	Lotus	No Problem	THP ECP	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2714	0.300	Unk	1/3/2006		1B104201SON	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Wet weather road inspection. No problems.																	
40.06	5850	0.000	Chidlaw Chidlaw	Chidlaw	Maintena	Maintenance	Other	Maintenance	N/A		0	0	0	0	0	\$553	0
Private Seasonal	5850	1.600		8/1/2012		ECP Not	Herbicides	Medium	-	-	0	0	0	0	0	\$0	0
40.06	345	0.000	Stonema Reynolds	Reynolds	19-051	Hazel	Worn Out Culvert	THP App. Rd.	II		0	0	0	0	0	\$354	0
Private Perm	6604	0.000	Unk	9/28/2020		GWDR-1-19-00051	Culv. Replace	THP Low	18'	18"	30	0	0	0	0	\$0	0
Class II: metered perennial overflow from sag pond discharge point.																	
Existing 18" CMP is rusted out along bottom. Replace with sound 18" culvert. Establish a shallow rolling dip over or as near pipe hinge point as possible.																	
40.06	1117	0.010	Alden Alden	Alden	Maintena	Maintenance	No Problem	Maintenance	N/A		0	0	0	0	0	\$0	0
Private Seasonal	1117	0.000	ME	12/5/2000		ECP Not	Gate	Low	-	-	0	0	0	0	0	\$0	0
40.06	322	0.150	McCarri Alden	Alden	319(h)1	9-170-251-0B	Culv. HDPE-Plug	Storm Proofing	III		0	0	0	9	2	\$2,716	125
Private Seasonal	322	0.000	ME	7/15/2002		ECP Not	Culv. Replace	Medium	18'	24"	50	0	8	1	150	\$24	113
18" cmp on class III undersized, replace with 24" cmp. Unnatural channel below, install pipe at steeper grade rock armouring outlet area																	

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Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Cl3 Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
40.06	322	0.150	Stonema	Reynold	19-051	Hazel	Worn Out Culvert	THP App. Rd.	II	0	0	0	0	0	0	\$754	0
Private Perm.	6633	0.000	Unk	9/24/2020		GWDR-1-19-00051	Culv. Replace	THP Low	24"	30"	30	0	0	0	0	\$0	0
Class II: metered perennial overflow from sag pond discharge point.																	
Existing 24" CMP is rusted out along bottom. Replace with 30" double wal. plastic culvert. Install critical dip over or as near pipe hinge point as possible.																	
40.06	345	0.200	McCarl	Alden	319(h) I	9-170-251-0B	Culv.	Weather Damage	II	0	0	0	0	0	0	\$50	0
Private Seasonal	345	0.000	ME	7/15/2002		ECP Not	Culv. Maintenance	Medium	18"	-	0	0	0	0	0	\$0	0
18" CMP for overflow to pond. During peak flows majority of flow goes past CMP inlet down inside ditch for 20', flow across road. Treatment: Clear inlet and outlet build up ditch below CMP inlet so CMP will carry max flow if needed, install trash rack.																	
40.06	344	0.300	McCarl	Alden	315(h) I	9-170-251-0B	Culv.	Weather Damage	II	0	0	0	22	9	0	\$7,340	550
Private Seasonal	344	0.000	ME	7/18/2002		ECP Not	Culv. Replace	Medium	24"	36"	60	0	17	17	786	\$15	495
24" CMP on class II, CMP I high in fill, with stored sediment above inlet for approximately 105', flow is on the surface but is gullyng through sediment. Channel is sediment fill below stream flow. Treatment: Excavate top to bottom install 36" CMP at grade rock armour inlet and outlet.																	
40.06	344	0.300	Stonema	Reynold	19-051	Hazel	Culv.	THP App. Rd.	II	0	0	0	0	0	0	\$1,238	0
Private Perm.	6605	0.300	Unk	9/29/2020		GWDR-1-19-00051	Culv. Replace	THP Low	36"	36"	30	0	0	0	0	\$0	0
Replace existing 36" CMP with new 35" CMP.																	
40.06	343	0.320	McCarl	Alden	315(h) I	9-170-251-0B	Fill - Road	Weather Damage	N/A	0	0	0	0	0	0	\$0	116
Private Seasonal	343	0.000	ME	7/18/2002		ECP Not	Excavate Soil	Medium	-	-	0	0	0	0	116	\$0	104
Potential roadfill failure 35' above class II 70 x 3 x 15 = 116. Treatment: excavate, push spoils to right against cutbank.																	
40.06	342	0.380	McCarl	Alden	315(h) I	9-170-251-0B	Fill - Road	Weather Damage	N/A	0	0	0	0	0	0	\$0	133
Private Seasonal	342	0.000	ME	7/18/2002		ECP Not	Excavate Soil	Medium	-	-	0	0	0	0	133	\$0	13
Potential roadfill failure, 60 x 3 x 20 = 133. Excavate, push spoil 300' to right.																	
40.06	2017	0.500	Pehl	Pehl	Maintena	Maintenance	Surface Drainage	Maintenance	N/A	0	0	0	75	0	0	\$13,800	1,320
Storm Proofed	2017	0.200	ME	5/23/2002		ECP Not	Dip Rolling	Medium	-	-	0	0	60	0	0	\$10	1,320
Road outsloped and dipped to upgrade surface drainage.																	
40.06	1333	0.550	Haschak	Pehl	02-174	Huckleberry	Culv.-EDP-Plug	THP App. Rd.	II	0	0	0	1	2	0	\$320	0
Private Seasonal	1954	0.000	ME	8/12/2002		ECP Not	Dip Critical	THP High	18"	-	0	0	1	0	0	\$0	0
cmp draining sag pond, TREAT clean inlet and outlet add critical dip, haul in spoil to construct dip																	
40.06	1333	0.550	McCarl	Pehl	Storm Pro	Storm Proofing	Culv.-EDP-Plug	Storm Proofing	II	0	0	0	7	10	0	\$2,200	0
Private Seasonal	1333	0.000	ME	8/14/2002		ECP Not	Dip Critical	High	18"	-	0	0	10	0	0	\$0	0
cmp draining sag pond, TREAT clean inlet and outlet add critical dip, haul in spoil to construct dip																	
40.06	1333	0.550	Stonema	Stonema	19-051	Hazel	No Problem	THP App. Rd.	II	0	0	0	0	0	0	\$0	0
Private Seasonal	6606	0.000	Unk	1/12/2018		ECP Not	No Action	No Action	18"	-	0	0	0	0	0	\$0	0
Existing, functional, 18" CMP. Maintain.																	
Note: this is metered out flow from a sag pond outlet. Discharge is seasonal and has been channeled down an artificially created ditch line to a discharge point at Road Point #333.																	
40.06	2049	0.600	Haschak	Pehl	02-174	Huckleberry	Other	THP Mitigation	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2049	0.000	Unk	10/15/2003		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
This WLPZ landing shall only be used between May 1 and October 15 during the year of operation. Mulch and seed at close of operation. Place log berm a minimum of twenty feet from and parallel to class II prior to start of operations on the landing. Wlpz landing soil stabilization measures and routing of drainage away from the class II shall be in place by October 15 of any year in which the landing is used for timber operations.																	

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Road #	GIS#	Mile	Plan	Final	TH-#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
40.05	2049	0.600	Stonema	Reynold	19-051	Hazel	Other	THP Mitigation	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6607	0.000	Unk	6/29/2020		CWDR-1-15-00051	Other	THP Med	-	-	0	0	0	0	0	\$0	0
<p>This WLPZ landing shall only be used between May 1 and October 15 during the year of operation. Mulch and seed at close of operation. A undisturbed vegetative buffer of at least 30 feet shall be maintained from and parallel to Class II channel during landing use. Flagging and/or use of brow logs are to be placed along this demarcation protection line so as to prevent equipment entry into the vegetation retention zone. WLPZ landing soil stabilization measures and routing of drainage away from the Class II shall be in place by October 15 of any year in which the landing is used for timber operations.</p> <p>6/29/20: The WLPZ landing was not used.</p>																	
40.06	1332	0.650	Hasehak	Pehl	02-174	Huckleberry	Culv.-HDP	THP App. Rd.	II	0	0	0	0	0	0	\$80	0
Private Seasonal	1332	0.000	ME	8/1/2002		ECP Not	Dip Critical	Medium	24"	-	0	0	1	0	0	\$0	0
add critical dip right hinge																	
40.06	1332	0.650	Stonema	Stonema	19-051	Hazel	No Problem	THP App. Rd.	II	0	0	0	0	0	0	\$0	0
Private Seasonal	6608	0.000	Unk	1/12/2018		ECP Not	No Action	No Action	24"	-	0	0	0	0	0	\$0	0
Existing, functional, 24' CMP. Maintain.																	
40.06	2039	0.750	Hasehak	Pehl	02-174	Huckleberry	Fill - Road	THP Mitigation	N/A	0	0	0	0	0	0	\$0	0
Existing Skid	2039	0.000	ME	10/15/2003		ECP Not	Excavate Soil	Medium	-	-	0	0	0	0	0	\$0	0
An existing skid trail on steep slopes has an area of potentially failing fill and inadequate waterbars. Pull fill where cracks exist, outslope and waterbar skid trail at high erosion hazard standards																	
40.06	1331	0.880	McCanl	Pehl	Storm Pro	Storm Proofing	Fill - Road	THP App. Rd.	N/A	0	0	0	3	0	0	\$600	282
Private Seasonal	1331	0.840	ME	10/15/2002		ECP Not	Excavate Soil	THP Low	-	-	0	0	3	0	282	\$4	141
excavate fill incorporate into road																	
40.06	1330	0.900	Hasehak	Pehl	02-174	Huckleberry	Dip Critical	THP App. Rd.	II	0	0	0	0	0	0	\$80	0
Private Seasonal	1955	0.000	ME	8/1/2002		ECP Not	Dip Critical	Medium	-	-	0	0	1	0	0	\$0	0
add critical dip																	
40.06	1330	0.900	McCanl	Alden	Storm Pro	Storm Proofing	Culv.-HDP	Storm Proofing	III	0	0	0	17	10	0	\$6,978	1,050
Private Seasonal	1330	0.000	ME	8/14/2002		ECP Not	Culv. Replace	High	24"	36"	70	0	19	0	2,139	\$7	1,050
cmp shallow and low gradient lots of organics in fill 2 streams join at road TREAT excavate top to bot, grade up both channels to form good grade install cmp to grade endhaul spoils to right skid below road																	
40.06	1329	0.920	McCanl	Pehl	Storm Pro	Storm Proofing	Fill - Landing	Storm Proofing	N/A	0	0	0	13	6	0	\$2,060	1,260
Private Seasonal	1329	0.980	ME	10/15/2002		ECP Not	Excavate Soil	High	-	-	0	0	13	0	1,260	\$6	504
excavate fill from landing to left hinge of crossing #12 endhaul 560 yards to landing push remaining																	
40.06	1328	1.000	Hasehak	Pehl	02-174	Huckleberry	Fill - Road	THP App. Rd.	N/A	0	0	0	1	0	0	\$200	50
Private Seasonal	2029	0.000	ME	8/1/2002		ECP Not	Excavate Soil	THP High	-	-	0	0	1	0	50	\$8	25
perched fill around head of swale, excavate fill store on landing, maintain rolling critical dip at swale location																	
40.06	1328	1.000	McCanl	Pehl	Storm Pro	Storm Proofing	Fill - Road	THP App. Rd.	N/A	0	0	0	5	0	0	\$1,000	444
Private Seasonal	1328	0.000	ME	10/15/2002		ECP Not	Excavate Soil	THP Low	-	-	0	0	5	0	444	\$5	222
perched fill around head of class 3 no channel evident above TREAT excavate fill store on landing, install rolling dip at swale location																	
40.06	2040	1.000	Hasehak	Pehl	02-174	Huckleberry	Surface Drainage	THP Mitigation	N/A	0	0	0	0	0	0	\$0	0
Existing Skid	2040	0.000	ME	10/15/2003		ECP Not	Waterbar	Medium	-	-	0	0	0	0	0	\$0	0
Through cut skid trail should have extra large waterbar placed at top of thru cut and if possible breach thru cut halfway down with another large waterbar. If breaching isn't practical, then inslope skid trail and seed and mulch skid trail surface to item 18 standards.																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Lev. D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
40.06	2050	1.400	Haschak Pehl	02-174	Huckleberry	Other	THP Mitigation	II			0	0	0	0	0	\$0	0
Private Seasonal	2050	0.000	Unk	10/15/2003		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
This WPLZ skid trail will be out sloped away from the class II water course. Waterbars will be installed so they drain away from the class II and stabilized by either slash packing or seeding and mulching skid trail after usage.																	
40.06	2055	1.580	Haschak Pehl	02-174	Huckleberry	Other	THP Mitigation	N/A			0	0	0	0	0	\$0	0
Private Seasonal	2055	0.000	Unk	10/15/2003		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
North West third of landing falls into WPLZ STAY OUT.																	
40.06	1327	2.080	Haschak Alden	02-174	Huckleberry	Humboldt	THP App. Rd.	Spr.			0	0	0	4	3	0	\$3,856
Private Seasonal	1327	0.000	ME	8/16/2002		ECP Not	Culv. Install	Medium	-	24"	50	0	13	3	167	\$771	5
shallow humboldt crossing, excavate soil and install 24" to grade, make sure wet area all drains toward inlet of culvert																	
40.06	1326	2.110	Haschak Pehl	02-174	Huckleberry	Culv.-Plug	THP App. Rd.	III			0	0	0	1	0	0	\$200
Private Seasonal	1326	0.000	ME	8/12/02		ECP Not	Culv. Maintenance	THP High	-	-	0	0	1	0	0	\$0	0
clean inlet area inslope road towards inlet																	
40.06	1324	2.480	McCart Alden	Storm Pro	Storm Proofing	Inside ditch	THP App. Rd.	II			0	0	1	4	0	0	\$1,482
Private Seasonal	1324	0.000	ME	8/21/2002		ECP Not	Culv. Ditch Relief	THP Low	-	18"	40	0	6	2	0	\$0	0
sag pond draining down inside ditch TREAT install 18" DRC																	
40.06	1324	2.480	Haschak Pehl	02-174	Huckleberry	Inside ditch	THP App. Rd.	Spr.			0	0	0	0	0	0	\$25
Private Seasonal	2028	0.000	ME	10/15/2003		ECP Not	Temp. Crossing	THP Med	-	-	0	0	0	1	0	\$0	0
install temporary 4" pipe on inside ditch in order to allow use of skid trail, remove at close of operations or prior to winter period (Note: Currently has new 24" CMP should be amended in as permanent KP 3/13/03)																	
40.06	1322	2.650	Haschak Pehl	02-174	Huckleberry	Culv.	THP App. Rd.	III			0	0	0	0	0	0	\$50
Private Seasonal	1322	0.000	ME	10/15/2003		ECP Not	Other	THP Low	-	-	0	0	0	2	0	\$0	0
add rock dissipator at downspout area																	
40.06	1321	2.790	McCart Pehl	02-174	Huckleberry	Humboldt	THP App. Rd.	III			0	0	0	4	0	0	\$1,721
Private Seasonal	1321	0.000	ME	8/20/2002		ECP Not	Excavate Soil	THP Low	-	24"	40	0	5	0	167	\$26	57
excavate remaining fill from downstream edge of crossing, install 24" cmp at grade																	
40.06	1320	2.820	Haschak Pehl	02-174	Huckleberry	Culv.-HDP-Plug	Maintenance	III			0	0	0	1	0	0	\$200
Private Seasonal	1953	0.000	ME	10/15/2003		ECP Not	Dip Critical	THP Low	18"	-	0	0	1	0	0	\$0	0
clean inlet, add critical dip right hinge, rock armor outlet with competent rock (Note: existing pipe may need further evaluation with regards to SP protocol. KP 3/13/03)																	
40.06	1319	2.830	McCart Pehl	Storm Pro	Storm Proofing	Fill - Road	Storm Proofing	N/A			0	0	0	2	0	0	\$400
Abandoned Fixed	1319	0.000	ME	10/15/2002		ECP Not	Excavate Soil	Medium	-	-	0	0	2	0	155	\$3	124
excavate fill incorporate into road prism																	
40.06	2048	2.830	Haschak Pehl	02-174	Huckleberry	Other	THP Mitigation	III			0	0	0	0	0	0	\$0
Private Seasonal	2048	0.000	Unk	10/15/2003		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
The class III watercourse located below the road at map point 1320 will receive a twenty five foot EEZ on each side of the water course. Within this EEZ at least 50% of the total canopy covering the ground shall be left in a well distributed multi-story stand configuration composed of a diversity of species similar to that found before the start of operations. The residual overstory canopy shall be composed of at least 25% of the existing overstory conifers. The exposed soil on outside edge of road will be stabilized by planting conifer seedlings. Leave trees in this area will be marked with an L or a NO at breast height and below stump height.																	

ST

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
40.05	1320	2.840	McCarl	Alden	Storm Pro	Storm Proofing	Culv-EDP-Plug	Maintenance	III	0	0	0	4	0	0	\$985	0
Private Seasonal	1320	0.000	ME	8/20/2002		ECP Not	Dip Critical	Medium	18"	-	0	0	6	1	0	\$0	0
clean inlet and outlet area add critical dip right hinge																	
40.0615	2044	0.000	Alden	Alden	319(h) 1	9-170-251-0B	Surface Drainage	Storm Proofing	N/A	0	0	0	35	0	0	\$7,000	782
Storm Proofed	2044	1.600	ME	7/9/2002		ECP Not	Dip Rolling	Medium	-	-	0	0	35	0	0	\$9	782
Tip and dip																	
40.0615	333	0.000	McCarl	Alden	319(h) 1	9-170-251-0B	Inside ditch	Weather Damage	III	0	0	0	5	17	0	\$2,730	50
Private Seasonal	333	0.100	ME	8/7/2002		ECP Not	Other	High	-	-	0	0	8	20	0	\$55	50
A class III entering inside ditch flow 300' to 18" CMP. No determined channel below road, heavily tractorod. Where flow exits CMP has eroded a gully 121 x 70 which is now a class III. Treatment: Rock armour 300' of inside ditch to prevent future down cutting.																	
40.0615	2657	0.000	Pehl	Pehl	02-174	Huckleberry	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2657	1.500	Unk	12/20/2005		ECP Not	No Action	See Comments	-	-	0	0	0	0	0	\$0	0
Wet weather road inspection. No problems.																	
40.0615	2656	0.000	Pehl	Pehl	04-201	Lotus	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2656	1.500	Unk	12/20/2005		IB104201SON	No Action	See Comments	-	-	0	0	0	0	0	\$0	0
Wet weather road inspection. No problems.																	
40.0515	2715	0.000	Pehl	Pehl	04-201	Lotus	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2715	1.500	Unk	1/3/2006		IB104201SON	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Wet weather road inspection. No problems.																	
40.0615	5851	0.000	Chidlaw	Chidlaw	Maintena	Maintenance	Other	Maintenance	N/A	0	0	0	0	0	0	\$507	0
Private Seasonal	5851	1.500		8/1/2012		ECP Not	Herbicides	Medium	-	-	0	0	0	0	0	\$0	0
40.0615	333	0.000	Stonema	Stonema	19-051	Hazel	No Problem	THP App. Rd.	III	0	0	0	0	0	0	\$0	0
Private Perm	6659	0.000	Unk	1/12/2018		ECP Not	No Action	No Action	18"	-	0	0	0	0	0	\$0	0
Existing, functional, 18" aluminum pipe. Maintain.																	
40.0515	2051	0.100	Hasehak	Pehl	02-174	Huckleberry	Surface Drainage	THP Mitigation	II	0	0	0	0	0	0	\$0	0
Private Seasonal	2051	0.150	ME	10/15/2003		ECP Not	Rock Surface	Medium	-	-	0	0	0	0	0	\$0	0
Place 6" of rock on section of road from where class II hits inside ditch to culvert where class II crosses under road.																	
40.0615	332	0.250	McCarl	Alden	319(h) 1	9-170-251-0B	Other	Weather Damage	N/A	0	0	0	5	20	0	\$3,100	0
Private Seasonal	332	0.000	ME	7/30/2002		ECP Not	Dip Rolling	Medium	-	-	0	0	10	20	0	\$0	0
Pond above road , flow across road during peak flow. Treatment: Install rocked rolling dip at flagged location. This is at a wide portion of the road, will need approximately 4 tons of rock.																	
40.0615	324	0.380	McCarl	Alden	271 LNF	LNF P01330405A	Culv-Plug	Storm Proofing	II	0	0	0	2	1	0	\$450	0
Private Seasonal	324	0.000	ME	7/30/2002		ECP Not	Culv. Maintenance	Medium	-	-	0	0	2	0	0	\$0	0
treatment: clear inlet install trash rack clear outlet area and rock armour. Dump truck needed for rip-rap for armouring																	
40.0615	323	0.400	McCarl	Alden	319(h) 1	9-170-251-0B	Fill - Road	Storm Proofing	N/A	0	0	0	0	0	0	\$0	550
Private Seasonal	323	0.000	ME	7/30/2002		ECP Not	Excavate Soil	Medium	-	-	0	0	0	0	550	\$0	165
Potential roadfill failure 530X3x15=550 excavate store spoil against outbank																	
40.0515	331	0.480	McCarl	Alden	319(h) 1	9-170-251-0B	Fill - Landing	Weather Damage	N/A	0	0	0	5	8	0	\$1,480	256
Private Seasonal	331	0.000	ME	7/19/2002		ECP Not	Excavate Soil	Medium	-	-	0	0	5	0	265	\$29	51
Potential landing fill failure 120 x 3 x 20 = 266 Excavate store spoils agains: catback.																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds	
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds	
40.0615	329	0.500	McCarl	Alden	319(h) 1	9-170-251-0B	Inside ditch	Storm Proofing	II		0	0	0	5	0	0	\$1,417	0
Private Seasonal	329	0.000	ME	7/19/2002		ECP Not	Culv. Replace	Medium	-	18"	40'	0	4	1	0	\$0	0	
40.0615	328	0.550	McCarl	Alden	319(h) 1	9-170-251-0B	Culv.-Plug	Storm Proofing	II		0	0	0	14	4	0	\$5,295	170
Private Seasonal	328	0.000	ME	7/24/2002		ECP Not	Culv. Replace	High	-	36'	60'	0	12	0	286	\$31	170	
A 24" CMP on a class II stream. CMP has plugged in past. Excavate top to bottom, install 36" CMP at grade. Install C.D. Endhaul spoil to																		
40.0615	327	0.700	McCarl	Alden	319(h) 1	9-170-251-0B	Inside ditch	Storm Proofing	N/A		0	0	0	5	0	0	\$1,472	0
Private Seasonal	327	0.000	ML	7/23/2002		ECP Not	Culv. Ditch Relief	Medium	-	18'	40'	0	5	0	0	\$0	0	
Clean ditch from site #1008.1 to #1009 at #1009 (install 18" x 40' DRC drain into redwoods below road.																		
40.0615	327	0.700	Hasenak	Pehl	04-201	Lotus	Culv.-Plug	Maintenance	N/A		0	80	0	0	7	0	\$525	130
Private Seasonal	2366	0.700	R&S	7/25/2006		1B104201SON	Culv. Maintenance	THP Low	18"	-	0	0	3	10	0	\$40	15	
The LTO will install a subsurface drain at map point 21. See attached diagram at the end of this work order for instructions on how to construct this drain.																		
40.0615	327	0.700	Alden	Alden	04-201	Lotus	Culv.-Ditch Relief	THP ECP	N/A		0	0	0	0	0	0	\$0	0
Private Seasonal	4183	0.000	Urk	5/21/2007		1B104201SON	Culv. Maintenance	Medium	-	-	0	0	0	0	0	\$0	0	
Small bank failure plugged the DRC. Dug out inlet. There was no sign of overflowing. The French drain and outsliping makes this DRC unnecessary.																		
40.0615	327	0.700	Pehl	Pehl	04-201	Lotus	No Problem	THP ECP	N/A		0	0	0	0	0	0	\$0	0
Storm Proofed	4223	0.000	Urk	5/30/2007		1B104201SON	No Action	No Action	-	-	0	0	0	0	0	\$0	0	
Cut remainder of windthrown tree off site.																		
40.0615	326	0.750	McCarl	Alden	319(h) 1	9-170-251-0B	Surface Drainage	Storm Proofing	N/A		0	0	0	3	3	0	\$900	0
Private Seasonal	326	0.000	ME	7/30/2002		ECP Not	Dip Rolling	Medium	-	-	0	0	3	0	0	\$0	0	
Install rocked rolling dip.																		
40.0615	325	0.800	McCarl	Alden	319(h) 1	9-170-251-0B	Surface Drainage	Storm Proofing	N/A		0	0	0	4	5	0	\$1,130	0
Private Seasonal	325	0.000	ME	7/30/2002		ECP Not	Dip Rolling	Low	-	-	0	0	3	4	0	\$0	0	
Install rocked rolling dip.																		
40.0615	341	0.900	McCarl	Alden	319(h) 1	9-170-251-0B	Culv.	Weather Damage	III		0	0	0	0	0	0	\$0	0
Private Seasonal	341	0.000	ME	7/30/2002		ECP Not	Culv. Maintenance	Medium	24"	-	0	0	0	0	0	\$0	0	
A 24" CMP with DS DS needs replace and added to clean inlet and install downspout.																		
40.0615	340	1.170	McCarl	Alden	319(h) 1	9-170-251-0B	Culv.-Plug	Weather Damage	II		0	0	0	23	7	0	\$4,328	755
Private Seasonal	340	0.000	ME	7/26/2002		ECP Not	Culv. Replace	High	-	48'	0	0	9	20	755	\$6	683	
A 24" CMP on a class II stream. CMP plugged and overtopped and eroded fill at OBR approximate 40 yds. Stream flow goes subsurface 90' above inlet this will be top of the excavation. Bottom flag is 60' below road. Remove CMP excavate top to bottom down to original grade. Install 48" at grade clear inlet area to the left, a small swale with evidence of flow located here.																		
40.0615	339	1.250	McCarl	Alden	319(h) 1	9-170-251-0B	Slide - Deep	Weather Damage	N/A		0	0	0	0	0	0	\$0	0
Private Seasonal	339	0.000	ME	7/26/2002		ECP Not	Excavate Soil	Medium	-	-	0	0	0	0	0	\$0	0	
Large landslide below road, need to pull back outer edge of road approximately 100 x 2 x 20 =179. Widen road by cutting into cutbank using spoil for fill on crossing # 1006.																		
40.0615	338	1.350	McCarl	Alden	319(h) 1	9-170-251-0B	Surface Drainage	Weather Damage	N/A		0	0	0	0	0	0	\$140	0
Private Seasonal	338	0.000	ME	7/31/2002		ECP Not	Dip Rolling	Low	-	-	0	0	1	0	0	\$0	0	
Install rocked rolling dip to drain area above.																		
40.0615	337	1.400	McCarl	Alden	319(h) 1	9-170-251-0B	Culv.	Weather Damage	III		0	0	0	10	8	0	\$3,285	60
Private Seasonal	337	0.000	ME	7/29/2002		ECP Not	Culv. Replace	High	18"	24"	60'	0	3	12	350	\$55	60	
A 18" CMP on a class III stream. Fill was placed in crossing and CMP install high in fill. A skip crosses channel 60' above CMP inlet. This needs to be excavated. Top to crossing is above skip. Crossing is shallow w/large redwood stump below to indicated depth. Excavate top to bottom push spoils to right up skip, install 24" CMP at grade 120 x 4 x 20.																		

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
40.0615	336	1.420	McCanl	Alden	319(h) 1	9-170-251-0B	Fill - Landing	Weather Damage	N/A		0	0	0	0	0	\$0	190
Private Seasonal	336	0.000	ME	7/29/2002		ECP Not	Excavate Soil	High	-	-	0	0	0	0	0	\$0	190
42 x 4 x 30 = 190 Excavate landing failure push spoils to right up skip beginning of this site will connect with site #1003.																	
40.0615	335	1.430	McCanl	Alden	319(h) 1	9-170-251-0B	Humboldt	Weather Damage	II		0	0	0	6	3	\$1,380	50
Private Seasonal	335	0.000	ME	7/29/2002		ECP Not	Excavate Soil	Medium	-	-	0	0	6	0	500	\$28	50
A fill crossing draining tow small swales from above road below road well define swale. Right side of swale below road has been restricted from landing slash being push over landing edge. Excavate top to bottom reconstructing swale, install rocked rolling dip. Also pull back landing to right of swale 40 x 4 x 20.																	
40.0615	334	1.480	McCanl	Alden	319(h) 1	9-170-251-0B	Fill - Road	Weather Damage	N/A		0	0	0	5	0	\$1,000	600
Private Seasonal	334	0.000	ME	7/29/2002		ECP Not	Excavate Soil	Medium	-	-	0	0	5	0	600	\$0	0
270 x 3 x 20 potential road fill failure delivery is unlikely. If entire failure fails at once delivery could be approximately 10%, excavate store spoils against cutbank.																	
40.061565	2045	0.000	Alden	Pehl	Maintenance	Maintenance	Surface Drainage	Storm Proofing	N/A		0	0	0	7	0	\$1,913	185
Upgraded	2045	0.380	Unk	7/4/2002		ECP Not	Dip Rolling	Medium	-	-	0	0	11	0	0	\$10	185
40.061565	1356	0.080	McCanl	Pehl	Storm Pro	Storm Proofing	Culv -HDP	Storm Proofing	III		0	0	0	0	0	\$80	0
Private Seasonal	1356	0.000	ME	10/15/2002		ECP Not	Dip Critical	Low	-	-	0	0	1	0	0	\$0	0
add critical dip left hinge																	
40.061566	2365	0.170	Haschak	Pehl	04-201	Lotus	Temp. Crossing	Maintenance	III		0	0	0	0	1	\$165	5
Private Seasonal	2365	0.170	R&S	7/25/2006		IB104201SON	Armored Ford	THP Low	-	-	0	0	1	0	0	\$0	0
Install rock ford crossing. See attached diagram at the end of this work order.																	
40.061566	1334	0.310	McCanl	Pehl	Storm Pro	Storm Proofing	Culv -HDP-Plug	Storm Proofing	III		0	0	0	33	56	\$10,685	620
Private Seasonal	1334	0.000	ME	10/15/2002		ECP Not	Remove Crossing	Medium	24"	Pull	80	0	33	5	1,333	\$17	620
flow going sub-surface 20' above inlet emerging 10' below outlet of cmp. TREAT excavate crossing top to bot install 36" cmp to grade endhaul 50% of spoil to left the to the right to road junction -Crossing pulled.																	
40.061566	1335	2.800	McCanl	Pehl	Storm Pro	Storm Proofing	Fill - Landing	Storm Proofing	N/A		0	0	0	3	6	\$560	311
Private Seasonal	1335	0.000	ME	10/15/2002		ECP Not	Excavate Soil	High	-	-	0	0	3	0	311	\$10	93
excavate fill endhaul to left to landing																	
40.0643	2018	0.000	Pehl	Pehl	Maintena	Maintenance	Surface Drainage	Maintenance	N/A		0	0	0	0	11	\$600	196
Upgraded	2018	0.400	ME	5/23/2002		ECP Not	Dip Rolling	Medium	-	-	0	0	8	0	0	\$3	196
Road outsloted and dipped to upgrade surface drainage.																	
40.0643	1342	0.170	McCanl	Pehl	Storm Pro	Storm Proofing	Humboldt	Storm Proofing	III		0	0	0	6	0	\$1,300	53
Private Seasonal	1342	0.000	ME	10/15/2002		ECP Not	Culv. Replace	High	36"	60"	0	0	6	4	213	\$25	53
partially pulled crossing logs and organics visible in remaining crossing TREAT excavate top to bot install cmp to grade remove logging slash from at right of inlet																	
40.0643	1342	0.170	Haschak	Pehl	02-174	Blackberry	Temp. Crossing	THP App. Rd	III		0	0	0	1	0	\$275	0
Private Seasonal	2032	0.000	Unk	12/15/2005		ECP Not	Temp. Crossing	THP High	-	-	0	0	1	1	0	\$0	0
springy area on class III, install temporary pipe adequate to handle flow, remove at close of operations or prior to winter period																	
40.0643	1341	0.180	McCanl	Pehl	Storm Pro	Storm Proofing	Fill - Landing	Storm Proofing	N/A		0	0	0	2	0	\$400	237
Private Seasonal	1341	0.190	ME	10/15/2002		ECP Not	Excavate Soil	High	-	-	0	0	2	0	237	\$6	71
excavate fill incorporate into road																	

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Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
40.0643	1340	0.220	McCarl	PeH	Storm Pro	Storm Proofing	Humboldt	Storm Proofing	III	0	0	0	5	0	0	\$1,075	70
Private Seasonal	1340	0.000	ME	10/15/2002		FCP Not	Excavate Soil	High	-	-	60	0	5	3	191	\$15	70
partially excavated crossing currently flowing minor erosion present spring flow from right to inlet TREAT excavate top to bot install cmp to grade, inslope road over crossing to inlet, clean ditch SO' to right - No pipe installed, left dipped as part of Huckleberry THP.																	
40.0643	1340	0.220	Haschak	PeH	02-174	Huckleberry	Temp. Crossing	THP App. Rd.	III	0	0	0	5	0	0	\$1,275	0
Private Seasonal	2033	0.000	Unk	10/15/2003		ECP Not	Temp. Crossing	THP High	-	-	0	0	5	3	0	\$0	0
springy area on class III, install temporary pipe adequate to handle flow, remove at close of operations or prior to winter period																	
40.0643	1339	0.250	McCarl	PeH	Storm Pro	Storm Proofing	Fill - Landing	Storm Proofing	N/A	0	0	0	6	0	0	\$1,200	567
Private Seasonal	1339	0.280	ME	10/15/2002		ECP Not	Excavate Soil	High	-	-	0	0	6	0	567	\$7	170
excavate landing fill store against outbank entire landing edge																	
40.0643	1338	0.280	McCarl	PeH	Storm Pre	Storm Proofing	Cur Bank Failure	Maintenance	N/A	0	0	0	1	0	0	\$200	0
Private Seasonal	1338	0.000	ME	10/15/2002		ECP Not	Excavate Soil	Medium	-	-	0	0	1	0	0	\$0	0
remove organics from failure, pish spoil to left incorporate into road																	
40.0643	1337	0.380	Haschak	PeH	02-174	Huckleberry	FEI - Road	THP Mitigation	II	0	0	0	0	0	0	\$0	0
Private Seasonal	2063	0.000	Unk	10/15/2003		ECP Not	Excavate Soil	THP Low	-	-	0	0	0	0	0	\$0	0
The roadside loose fill downstream of the culvert will be pulled back. This site is near the osprey nest so no equipment should be used until after the osprey nesting season. March 1 to August 1 for occupied nests. Add competent rock disapter.																	
40.0656	2019	0.000	PeH	PeH	Maintena	Maintenance	Surface Drainage	Maintenance	N/A	0	0	0	0	0	11	\$600	196
Upgraded	2019	0.400	ME	5/23/2002		ECP Not	Dip Rolling	Medium	-	-	0	0	8	0	0	\$3	196
Road outsloped and dipped to upgrade surface drainage.																	
40.0683	2020	0.000	PeH	PeH	Maintena	Maintenance	Surface Drainage	Maintenance	N/A	0	0	0	11	0	0	\$1,808	196
Upgraded	2020	0.400	ME	5/23/2002		FCP Not	Dip Rolling	Medium	-	-	0	0	8	0	0	\$9	196
Road outsloped and dipped to upgrade surface drainage.																	
40.0683	2035	0.100	Haschak	PeH	02-174	Huckleberry	Temp. Crossing	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2035	0.000	Unk	10/15/2003		ECP Not	Temp. Crossing	THP High	-	-	0	0	0	0	0	\$0	0
Dip out at close of operations																	
40.0683	2035	0.150	Haschak	PeH	04-201	Lotus	Temp. Crossing	THP App. Rd.	III	0	0	0	0	0	0	\$0	0
Private Seasonal	2412	0.150	AL	11/10/2006		ECP Not	Remove Crossing	Medium	-	-	0	0	1	0	0	\$0	0
Dip out at close to natural grade.																	
40.0683	1318	0.200	McCarl	Storm Pro	Storm Pro	Storm Proofing	Temp. Crossing	Storm Proofing	III	0	0	0	1	0	0	\$225	10
Abandoned Fixed	1318	0.000	Unk	10/15/2003		ECP Not	Excavate Soil	Low	-	-	0	0	1	0	56	\$23	10
excavate remaining fill store locally after harvesting is completed																	
40.0683	1318	0.200	Haschak	PeH	02-174	Huckleberry	Temp. Crossing	THP App. Rd.	II	0	0	0	1	0	0	\$225	10
Private Seasonal	2037	0.000	Unk	10/15/2003		ECP Not	Temp. Crossing	THP High	-	-	0	0	1	0	56	\$23	10
if flow present at time of operations install temporary pipe adequate to handle flow, excavate remaining fill store locally after harvesting is completed																	
40.0683	1318	0.200	Haschak	PeH	04-201	Lotus	Temp. Crossing	THP App. Rd.	III	0	0	0	0	0	0	\$0	0
Private Seasonal	2413	0.000	AL	11/10/2006		ECP Not	Remove Crossing	Medium	-	-	0	0	1	0	0	\$0	0
Dip out at close to natural grade.																	

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Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Rght D	Cat	Labor	Yds	\$/FSD	FSD Yds
40.0683	1317	0.300	MacCarr	Alden	Storm Pro	Storm Proofing	Temp. Crossing	Storm Proofing	II		0	0	4	0	0	\$985	37
Abandoned Fixed	1317	0.000	ME	8/28/2002		ECP Not	Excavate Soil	Medium	-	-	0	0	6	1	88	\$27	37
excavate remaining fill store locally after completion of harvesting																	
40.0683	1317	0.300	Haschak Pehl	02-174	Huckleberry		Temp. Crossing	THP App. Rd.	III		0	0	1	0	0	\$225	0
Private Seasonal	2030	0.000	Unk	10/15/2003		ECP Not	Temp. Crossing	THP High	-	-	0	0	1	0	0	\$0	0
if flow present at time of operations install temporary pipe adequate to handle flow, excavate remaining fill store locally after harvesting is completed																	
40.0683	1317	0.300	Haschak Pehl	04-201	Lotus		Temp. Crossing	THP App. Rd.	III		0	0	0	0	0	\$0	0
Private Seasonal	2474	0.000	AL	11/10/2006		ECP Not	Remove Crossing	Medium	-	-	0	0	1	0	0	\$0	0
Dip out at close to natural grade.																	
40.068311	2411	0.050	Haschak Pehl	04-201	Lotus		Temp. Crossing	THP App. Rd.	III		0	0	0	0	0	\$0	0
Private Seasonal	2411	0.050	AL	11/10/2006		ECP Not	Remove Crossing	Medium	-	-	0	0	1	0	0	\$0	0
Dip out at close to natural grade. (Not used)																	
40.068338	2037	0.100	Haschak Pehl	02-174	Huckleberry		Temp. Crossing	THP App. Rd.	III		0	0	0	0	0	\$0	0
Private Seasonal	2037	0.000	Unk	10/15/2003		ECP Not	Temp. Crossing	THP High	-	-	0	0	0	0	0	\$0	0
Dip out crossing at close of operations																	
40.0693	2021	0.000	Pehl	Pehl	Maintena	Maintenance	Surface Drainage	Maintenance	N/A		0	0	2	0	0	\$343	54
Upgraded	2021	0.110	ME	5/23/2002		ECP Not	Dip Rolling	Medium	-	-	0	0	2	0	0	\$6	54
Road outloped and dipped to upgrade surface drainage.																	
40.09	2232	0.010	Alden	Alden	Maintena	Maintenance	No Problem	Maintenance	N/A		0	0	0	0	0	\$0	0
Private Perm.	2232	0.000	Unk	9/8/2003		ECP Not	Gate	No Action	-	-	0	0	0	0	0	\$0	0
Gravel Gate																	
40.09	2121	0.100	Alden	Alden	Maintena	Maintenance	No Problem	Maintenance	I		0	0	0	0	0	\$0	0
Private Seasonal	2121	0.000	Unk	3/10/2003		ECP Not	Rock Pit	No Action	-	-	0	0	0	0	0	\$0	0
This is the location for water drafting. See water drafting mitigations contained in the THP and 1603 permit.																	
40.09	5512	0.200	Alden	Alden	02-174	Huckleberry	No Problem	Maintenance	I		0	0	0	0	0	\$0	0
Water Rights	5512	0.000	Unk	10/15/2003		ECP Not	Water Hole	Annual Water Use	-	-	0	0	0	0	0	\$0	0
S021354																	
This is a sump well - 5512 S021354 (598557) for water for Bed Rock's processing plant. Diversions are infrequent. Consumption is based on usage per day. Bed Rock Uses about 12% of what they divert. The remainder goes to the settling pond and back into the river.																	
40.09	2061	0.250	Haschak Pehl	02-174	Huckleberry		No Problem	THP App. Rd.	I		0	0	0	0	0	\$0	0
Water Rights	2061	0.000	Unk	10/15/2003		ECP Not	Water Hole	No Action	-	-	0	0	0	0	0	\$0	0
Bed Rock VC Pool-2061 S018686 This is the location for water drafting. See water drafting mitigations contained in the THP and 1603 permit. This is the Valley Crossing site Bed Rock uses for gravel processing.																	
40.09	2061	0.250	Haschak		Maintena	Maintenance	No Problem	THP App. Rd.	I		0	0	0	0	0	\$0	0
Water Rights	5420	0.000	Unk	10/15/2003		ECP Not	Water Hole	Important 1603	-	-	0	0	0	0	0	\$0	0
S018686																	
Bed Rock VC Pool-2061 S018686 (651976) This is the Valley Crossing site Bed Rock uses for gravel processing. It is an in channel water drafting site. Diversions are infrequent. Consumption is based on usage per day.																	
40.12	2055	0.000	Alden	Alden	Maintena	Maintenance	Surface Drainage	Maintenance	N/A		0	0	19	0	0	\$3,980	656
Upgraded	2056	1.300	ME	8/14/2002		ECP Not	Dip Rolling	Medium	-	-	0	0	20	8	0	\$6	656

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
40.12	2107	0.000	Alden	Alden	99-028	South Fork_98	No Problem	THP Maint Insp	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2107	1.400	Unk	11/1/2002		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0
40.12	1118	0.020	Alden	Alden	Maintena	Maintenance	No Problem	Maintenance	N/A		0	0	0	0	0	\$0	0
Private Seasonal	1118	0.000	Unk	12/5/2000		ECP Not	Gate	Low	-	-	0	0	0	0	0	\$0	0
40.12	57	0.300	Haschak	Alden	02-174	Huckleberry	Surface Drainage	THP Mitigation	I		0	0	0	0	0	\$0	0
Private Seasonal	2052	0.330	ME	8/14/2002		ECP Not	Rock Surface	Medium	-	-	0	0	0	0	0	\$0	0
Rock WLPZ section of road between point 503 and the second spur road to landing. Second spur road to landing shall be tractor packed with slash or seeded and mulched to the specifications listed in item 18 upon completion of operations.																	
40.12	57	0.300	Haschak	Alden	02-174	Huckleberry	Temp. Crossing	THP Mitigation	II		0	0	0	0	0	\$0	0
Private Seasonal	2002	0.000	ME	8/14/2002		ECP Not	Temp. Crossing	THP High	-	-	0	0	0	0	0	\$0	0
Dip out crossing at close of operations. Rock armor dip.																	
40.12	57	0.600	Lewicki	Alden	99-028	South Fork_98	Temp. Crossing	THP Mitigation	III		0	0	0	0	0	\$0	0
Private Seasonal	57	0.600	ME	8/14/2002		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
Class III temporary crossing. Upon completion a rolling dip will be placed at this point.																	
40.12	57	0.300	McCarl	Alden	Storm Pro	Storm Proofing	Temp. Crossing	Storm Proofing	II		0	0	0	0	0	\$0	0
Private Seasonal	1352	0.000	ME	8/14/2002		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
dipped crossing on class 3 flow coming down inside ditch from spur																	
40.12	57	0.300	Stonema	Reynold	19-051	Hazel	Temp. Crossing	THP App. Rd.	II		0	0	0	0	0	\$0	0
Private Perm.	5612	0.000	Unk	6/29/2020		GWDR-1-19-00051	Dip Rolling	THP Med	-	-	0	0	0	0	0	\$0	0
Road cross drainage of an ephemeral Class III watercourse. Existing rock armored rolling dip is in place to direct flow across road from up slope ditch line. Maintain rolling dip cross drain.																	
40.12	58	0.400	Lewicki	Alden	99-028	South Fork_98	Fill - Road	THP Mitigation	N/A		0	0	0	0	0	\$0	0
Private Seasonal	58	0.000	Unk	8/14/2001		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
40.12	59	0.420	Lewicki	Alden	99-028	South Fork_98	Fill - Road	THP Mitigation	N/A		0	0	0	0	0	\$0	0
Private Seasonal	59	0.000	Unk	8/14/2001		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
Widen road; stabilize fill with coarse rock or blocks.																	
40.12	60	0.470	Lewicki	Alden	99-028	South Fork_98	Culv.	THP Mitigation	III		0	0	0	0	0	\$0	0
Private Seasonal	60	0.000	Unk	8/14/2001		ECP Not	Culv. Replace	Medium	24"	24"	0	0	0	0	0	\$0	0
Replace rusted pipe. Reinforce the upstream and downstream portions of the fill with coarse rock or cured cement blocks.																	
40.12	60	0.470	McCarl	Alden	Storm Pro	Storm Proofing	Culv	Maintenance	III		0	0	0	0	0	\$100	0
Private Seasonal	1351	0.000	Unk	8/14/2001		ECP Not	Culv. Maintenance	Low	30"	-	0	0	0	2	0	\$0	0
add trash rack																	
40.12	1350	0.850	Haschak	Peld	07-155	W/Low	Culv.	THP App. Rd.	II		0	0	0	6	6	\$4,445	40
Private Seasonal	4141	0.000	R&S	10/12/2009		1B1071555SON	Culv. Replace	Medium	30"	48"	30	0	0	0	0	\$111	40
Replace with 48" pipe at grade or replace this culvert with a rocked ford. The pile of fill on northwest side of crossing will be removed and placed in a stable location.																	
40.12	1349	0.920	McCarl	Alden	Storm Pro	Storm Proofing	Culv.-HDP	Storm Proofing	II		0	0	0	1	4	\$585	0
Private Seasonal	1349	0.000	Unk	8/14/2001		ECP Not	Dip Critical	Medium	30"	-	0	0	1	0	0	\$0	0
cmp flat and shallow 4' plunge at outlet DP to right TREAT clean inlet outlet, rock below outlet, add CD right hinge import material for dip																	
40.12	61	0.350	Lewicki	Alden	99-028	South Fork_98	Culv.	THP Mitigation	II		0	0	0	0	0	\$0	0
Private Seasonal	61	0.000	Unk	8/14/2001		ECP Not	Culv. Maintenance	Medium	-	-	0	0	0	0	0	\$0	0
Install energy dissipator or downspout.																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Ycs
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
40.12	61	0.950	McCarl	Alden	Storm Pro	Storm Proofing	Curb-Plug	Storm Proofing	II	0	0	0	12	21	0	\$7,315	222
Private Seasonal	1347	0.000	Unk	8/14/2000		ECP Not	Curb. Replace	High	30"	36"	60	0	12	5	445	\$33	222
cmp outlet directed to right has been armoured but showing erosion inlet has trash rack partially plugged TREAT replace cmp re-direct outlet to channel, clear channel above install cmp at steeper grade rock armour below outlet																	
40.12	62	1.120	Lewicki	Alden	99-028	South Fork_98	Temp. Crossing	THP Mitigation	I	0	0	0	0	0	0	\$0	0
Private Seasonal	52	0.000	Unk	7/1/2000		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
Class II temporary crossing. Upon completion grass seed and mulch with straw to a depth of 2 inches.																	
40.12	63	1.120	McCarl	Alden	Storm Pro	Storm Proofing	Temp. Crossing	Storm Proofing	II	0	0	0	0	0	0	\$0	0
Private Seasonal	1346	0.000	Unk	7/1/2000		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
dipped crossing no action																	
40.12	62	1.120	Hasechak	Pehl	07-155	Willow	Other	THP App. Rd.	II	0	0	0	4	3	0	\$1,720	28
Private Seasonal	4144	0.000	R&S	8/28/2008		1B107155SON	Other	Mediarc	-	-	0	0	2	5	0	\$44	25
Ford has jumped out of channel and caused erosion 60 feet to the northwest of the crossing where a rail has been exposed. This rail and eroded channel will be covered with rock.																	
At the crossing itself a rockford will be created. The outlet will be armored. Place large rolling mound on north side of watercourse to keep water in channel in the future. See supplemental instructions for road work order for specifics on building the rock ford and outlet armoring.																	
40.12	53	1.130	Lewicki	Alden	99-028	South Fork_98	FBI - Road	THP Mitigation	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	53	0.000	Unk	3/1/2009		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
Widen road																	
40.12	64	1.200	Lewicki	Alden	99-028	South Fork_98	Surface Drainage	THP Mitigation	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	64	0.000	Unk	7/1/2000		ECP Not	Rock Surface	Mediarc	-	-	0	0	0	0	0	\$0	0
Fabric and rock.																	
40.12	65	1.260	McCarl	Alden	Storm Pro	Storm Proofing	Temp. Crossing	Storm Proofing	II	0	0	0	0	0	0	\$0	0
Private Seasonal	1345	0.000	Unk	7/1/2000		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
dipped class 3 crossing no action																	
40.12	65	1.260	Lewicki	Alden	99-028	South Fork_98	Temp. Crossing	THP Mitigation	III	0	0	0	0	0	0	\$0	0
Private Seasonal	65	0.000	Unk	8/14/2000		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
Class III temporary crossing. Culvert, etc.																	
40.12	67	1.290	Lewicki	Alden	99-028	South Fork_98	No Problem	THP Mitigation	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	67	0.000	Unk	7/1/2000		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0
WLPZ landing. Upon completion of operations, grass seed and straw mulch.																	
40.12	66	1.300	McCarl	Alden	Storm Pro	Storm Proofing	Temp. Crossing	Storm Proofing	I	0	0	0	2	4	0	\$618	0
Private Seasonal	1344	0.000	Unk	7/1/2000		ECP Not	Rock Surface	Medium	-	-	0	0	0	0	0	\$0	0
dipped crossing with outlet erosion TREAT lay sides back 2 to 1 below outlet rock channel																	
40.12	66	1.300	Lewicki	Alden	99-028	South Fork_98	Temp. Crossing	THP Mitigation	II	0	0	0	0	0	0	\$0	0
Private Seasonal	66	0.000	Unk	7/1/2000		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
Class II temporary crossing. Culvert, etc. The rails and tracks from the railroad logging era are exposed at this point. The site has been recorded as a historical site because the tracks are intact. The class II crossing will be dipped out by hand upon completion of operations to ensure that the tracks are not damaged by heavy equipment. The road surface within the WLPZ will be grass seeded at a rate of 25 pounds per acre and mulched with straw to a depth of 2 inches.																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
40.12	4143	1.300	Haschak Pehl		07-155	Willow	Other	THP App. Rd.	III	0	0	0	4	4	0	\$933	0
Private Seasonal	4143	0.000	R&S	8/28/2008		ECP Not	Other	Medium	-	-	0	0	2	0	0	\$0	0
Build up road on both sides with small rolling mounds so that watercourse stays in channel.																	
40.12	4176	1.590	Haschak Pehl		07-155	Willow	Other	THP App. Rd.	II	0	0	0	0	0	0	\$0	0
Private Seasonal	4176	0.000	Unk	10/15/2008		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
Rails exposed at this site. At the crossing a rockford with underlying fabric will be created. If necessary place mound on north side of watercourse to keep water in channel in the future. See supplemental instructions for road work order for specifics on building the rock ford.																	
40.12	68	1.470	Haschak Pehl		07-155	Willow	Other	THP App. Rd.	II	0	0	0	0	0	0	\$0	0
Private Seasonal	4146	0.000	Unk	10/15/2008		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
Create rock ford. Armor outlet. See supplemental instructions for road work order for specifics on building the rock ford and outlet armoring.																	
40.12	68	1.480	Lewicki Alden		99-028	South Fork_98	Temp. Crossing	THP Mitigation	II	0	0	0	0	0	0	\$0	0
Private Seasonal	68	0.000	Unk	8/14/2000		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
Class II temporary crossing. Culvert, etc. Grass seed and straw mulch.																	
40.12	69	1.700	Lewicki Alden		99-028	South Fork_98	Temp. Crossing	THP Mitigation	II	0	0	0	0	0	0	\$0	0
Private Seasonal	69	0.000	Unk	8/14/2000		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
Class II temporary crossing. Culvert, etc. Grass seed and straw mulch.																	
40.12	4177	1.700	Haschak Pehl		07-155	Willow	Surface Drainage	THP App. Rd.	I	0	0	0	0	0	0	\$0	0
Private Seasonal	4177	0.000	Unk	10/15/2008		ECP Not	Tip and Dip	Medium	-	-	0	0	0	0	0	\$0	0
Remove outside berm so that road drains. If necessary install drain pipe.																	
40.12	70	1.800	Lewicki Alden		99-028	South Fork_98	No Problem	THP Mitigation	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	70	0.000	Unk	7/1/2000		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0
WLPZ landing. Grass seed and straw mulch.																	
40.12	69	1.800	Haschak Pehl		07-155	Willow	Temp. Crossing	THP App. Rd.	II	0	0	0	0	0	0	\$0	0
Private Seasonal	4147	0.000	Unk	10/15/2008		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
Create rock ford. Armor outlet. See supplemental instructions for road work order for specifics on building the rock ford and outlet armoring. If necessary place mounds on both sides of watercourse to keep water in channel in the future.																	
40.1202	1119	0.020	Alden Alden	Maintena	Maintenance		No Problem	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	1119	0.000	Unk	12/5/2000		ECP Not	Gate	Low	-	-	0	0	0	0	0	\$0	0
40.1202	2054	0.070	Haschak Pehl		02-174	Hickcherry	Inside ditch	THP Mitigation	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2054	0.000	GE	11/15/2005		ECP Not	Rock Surface	Medium	-	-	0	0	0	0	0	\$0	0
Rock armour inside ditch at point where main road and spur road meet in order to stop down cutting.																	
40.1202	321	0.200	Kelly Kelly		98-259	Wheatfield 98	Other	THP Clean Up	N/A	0	0	0	0	20	0	\$1,775	0
Private Seasonal	321	0.500	GE	4/29/1999		ECP Not	Rock Surface	Low	-	-	0	0	9	0	0	\$0	0
Rocked parks road to get along																	
40.120211	1360	0.050	McCani		Storm Pro	Storm Proofing	Culv. HDP	Storm Proofing	II	0	0	0	1	2	0	\$505	0
Private Seasonal	1360	0.000	Unk	10/15/2008		ECP Not	Dip Critical	Medium	30"	-	0	0	1	2	0	\$0	0
class 2 with DP to left plunge pool below outlet of DS TREAT add critical dip left hinge add trash rack, rip-rap below DS																	

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Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
40.120211	1360	0.050	Haschak Pehl	02-174	Huckleberry	Culv.	Maintenance		II		0	0	0	0	0	\$0	0
Private Seasonal	2047	0.000	Unk	10/15/2003		ECP Not	Culv. Maintenance	Medium	30"	-	0	0	0	0	0	\$0	0
The culvert will be inspected in five years from the approval date of the THP, also prior to October 15th following the first year of operation, this point will be inspected for the presence of a critical dip. If one is not present, it shall be installed prior to October 15th following the first year of operations.																	
40.120211	1360	0.050	Stonema Reynold	19-051	Hazel	Other	THP App. Rd.		II		0	0	0	0	0	\$0	0
Private Seasonal	6611	0.000	Unk	10/2/2020		GWDR-1-19-00051	Remove Crossing	THP Low	30"	-	0	0	0	0	0	\$0	0
Remove culvert and associated fill to original channel grade. Lay banks to stable repose. Spoils may be incorporated into the road surface outside of the WLPZ. Install waterbars both sides of pulled crossing.																	
40.120228	4292	0.700	Haschak Pehl	07-155	Willow	Temp. Crossing	THP Non-Road		III		0	0	0	0	0	\$0	0
Private Seasonal	4292	0.000	Unk	10/15/2008		ECP Not	Remove Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Dip out at close of operations																	
40.1208	2036	0.700	Haschak Pehl	02-174	Huckleberry	Temp. Crossing	THP App. Rd.		N/A		0	0	0	0	0	\$0	0
Private Seasonal	2036	0.000	Unk	10/15/2003		ECP Not	Temp. Crossing	THP Low	-	-	0	0	0	0	0	\$0	0
install spring drain, remove and dip out at close.																	
Crossing not used.																	
40.1208	2036	0.100	Stonema Reynold	19-051	Hazel	Surface Drainage	THP App. Rd.		N/A		0	0	0	0	0	\$0	0
Private Seasonal	6610	0.000	Unk	6/29/2020		GWDR-1-19-00051	Dip Rolling	THP Low	-	-	0	0	0	0	0	\$0	0
Seasonal seep: maintain and reestablish existing rolling dip following seasonal road use. If flow is present during the use period, a minimum 4" temporary drain pipe shall be installed. Current and expected post road use overland flow is discharged onto a gentle slope that is well vegetated.																	
40.1208	6698	0.200	Pera Reynold	19-051	Hazel	No Problem	THP App. Rd.		N/A		0	0	0	0	0	\$0	0
Private Seasonal	5698	0.000	Unk	6/29/2020		GWDR-1-19-00051	Plant Trees	THP Low	-	-	0	0	0	0	0	\$0	0
Reuse of existing landing as designated on the plan map and in the field shall be reestablished to the minimum size necessary while giving consideration to prevent unreasonable damage to reproduction (conifer and hardwood) and riparian vegetation. Such consideration shall also be carried through the period of use. Pursuant to 14 CCR 916.9(n)(2), replanting is listed as a soil stabilization treatment measure.																	
40.121	2053	0.000	Haschak Pehl	02-174	Huckleberry	Other	THP Mitigation		III		0	0	0	0	0	\$0	0
Private Seasonal	2053	0.000	Unk	10/15/2003		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
Don't use this spur road, use the next spur road to the south in order to get to landing.																	
40.121	6613	0.000	Stonema Reynold	19-051	Hazel	Inside ditch	THP App. Rd.		III		0	0	0	0	0	\$0	0
Private Seasonal	6613	0.000	Unk	6/29/2020		GWDR-1-19-00051	Ditch - Clean	THP Med	-	-	0	0	0	0	0	\$0	0
An ephemeral Class III watercourse is diverted 140 feet from Point 58 to Point 57 along an inboard ditch of a road approach to a landing. The LTO has the following options: 1) Not use this spur road approach, leave it as is, and use the landing spur road approach to the south; If road is to be used, the LTO shall either: 1) rock the road approach to the landing and reestablish a rock lined ditch from Point 58 to Point 57; or 2) Treat the exposed road surface with grass seed and rock line the ditch as described above upon completion of seasonal road use, and prior to Oct 15, which ever date is earlier. 6/29/20: Road surface and ditch were rocked.																	
40.121	5514	0.100	Stonema Reynold	19-051	Hazel	Dip Rolling	THP App. Rd.		III		0	0	0	0	0	\$0	0
Private Seasonal	5514	0.000	Unk	6/29/2020		GWDR-1-19-00051	Dip Rolling	THP Med	-	-	0	0	0	0	0	\$0	0
Ephemeral Class III watercourse enters onto an old landing approach spur road where it junctions with an existing skid approach onto the landing. An existing rolling dip is in place and shall be maintained.																	

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Road #	GIS#	Mill	Plan	Final	T-HP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
40.121	6615	0.330	Stonema Reynold	19-051		Hazel	Other	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6615	0.000	Unk	6/25/2020		GWDR-1-19-00051	Dip Rolling	THP Med	-	-	0	0	0	0	0	\$0	0
Road alignment is just above head of an ephemeral Class III watercourse. Maintain existing rolling dip at low spot in road grade. Upon completion of seasonal road use install waterbar(s) within 30 feet of low point in road to reduce overland flow delivery directly into the head of the Class III watercourse.																	
40.121	2000	0.350	Haschak Pehl	02-154		Huckleberry	Temp. Crossing	THP Mitigation	III	0	0	0	0	0	0	\$0	0
Private Seasonal	2000	0.000	Unk	10/15/2003		ECP Not	Temp. Crossing	THP High	-	-	0	0	0	0	0	\$0	0
Dip out crossing at close of operations																	
40.121	2000	0.350	Stonema Reynold	19-051		Hazel	Temp. Crossing	THP App. Rd.	III	0	0	0	0	0	0	\$0	0
Private Seasonal	6616	0.000	Unk	5/29/2020		GWDR-1-19-00051	Dip Rolling	THP Med	-	-	0	0	0	0	0	\$0	0
Ephemeral Class III watercourse. Existing rolling dip to convey waters across the seasonal road is to be reestablished and maintained upon completion of seasonal road use. Crossing and bare mineral soil road approaches shall either be grass seeded or rock armored for erosion control following completion of seasonal road use or by Oct 15, whichever is later.																	
40.121	6617	0.370	Stonema Reynold	19-051		Hazel	Surface Drainage	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6617	0.000	Unk	6/29/2020		GWDR-1-19-00051	Dip Rolling	THP Med	-	-	0	0	0	0	0	\$0	0
Existing and appropriate road cross drain location to convey accumulated overland flow from hillslope and landing across the seasonal road. Reestablish landing drainage to this point with a substantial waterbar or rolling dip placed across the road surface.																	
40.12103	1356	0.000	McCarl		Storm Pro	Storm Proofing	No Problem	Storm Proofing	III	0	0	0	0	0	0	\$0	0
Private Seasonal	1356	0.000	Unk	7/1/2000		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
dipped class 3 crossing 2 stream joining at OBR both OK																	
40.12103	71	0.000	Lewicki Kelly	99-028		South Fork_98	Temp. Crossing	THP Mitigation	I	0	0	0	0	0	0	\$0	0
Private Seasonal	71	0.000	Unk	7/1/2000		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
Class III temporary crossing. Culvert, etc.																	
40.12103	4136	0.010	Haschak Pehl	07-155		W:Low	Temp. Crossing	THP App. Rd.	II	0	0	0	4	0	0	\$488	0
Private Seasonal	4136	0.000	R&S	8/25/2008		ECP Not	Remove Crossing	Medium	-	-	0	0	0	1	0	\$0	0
Install temporary pipe adequate to handle any flows anticipated. Spittler crossing (choked logs covered by hay covered by dirt) may be used to reduce fill in crossing. Pull crossing down to grade and pull back banks to stable repose at close of operations. Also a ditched springy area 25' to the north will need a pipe adequate to handle anticipated flow if water is present at time of operations. Pull pipe at close of operations and remove any fill.																	
40.12103	72	0.100	Lewicki Kelly	99-028		South Fork_98	Temp. Crossing	THP Mitigation	III	0	0	0	0	0	0	\$0	0
Private Seasonal	72	0.000	Unk	7/1/2000		LCP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
Class III temporary crossing. Culvert, etc.																	
40.12103	4137	0.150	Haschak Pehl	07-155		W:Low	Temp. Crossing	THP App. Rd.	II	0	0	0	4	0	0	\$488	0
Private Seasonal	4137	0.000	R&S	8/25/2008		ECP Not	Remove Crossing	Medium	-	-	0	0	0	1	0	\$0	0
Install temporary pipe adequate to handle any flows anticipated. Spittler crossing (choked logs covered by hay covered by dirt) may be used to reduce fill in crossing. Pull crossing down to grade and pull back banks to stable repose at close of operations.																	
40.12103	1355	0.190	McCarl		Storm Pro	Storm Proofing	No Problem	Storm Proofing	III	0	0	0	0	0	0	\$0	0
Deactivated	1355	0.000	Unk	7/1/2000		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
pulled crossing on class 3 no treat																	
40.12103	73	0.200	Lewicki Kelly	99-028		South Fork_98	No Problem	THP New Con.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	73	0.000	Unk	7/1/2000		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Start new road construction.																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Lr	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
40.1215	4134	0.050	Haschak Pehl		07-155	Willow	Fill - Road	THP App. Rd.	N/A		0	0	0	2	0	\$488	0
Private Seasonal	4134	0.000	R&S	5/25/2008		ECP Not	Excavate Soil	Medium	-	-	0	0	2	2	0	\$0	0
Reconstruct road around this point. Drain water away from this point. Pull any unstable fill at top of slide. Put in safety log along edge of road. As an alternative there is a road segment just to the east that could be used instead to get around this point.																	
40.1251	1354	0.040	Haschak Pehl		07-155	Willow	Temp. Crossing	THP App. Rd.	III		0	0	0	0	0	\$0	0
Private Seasonal	4148	0.000	Unk	10/15/2008		ECP Not	Remove Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Dip out at close.																	
40.1261	1354	0.050	McCanl Alder		Storm Pro	Storm Proofing	Temp. Crossing	Storm Proofing	III		0	0	0	3	4	\$610	0
Private Seasonal	1354	0.000	Unk	8/20/2002		ECP Not	Remove Crossing	Low	-	Pull	0	0	0	0	0	\$0	0
dipped crossing minor erosion TREAT lay sides back 2 to 1 rock channel low priority																	
40.1261	1354	0.050	Lewicki Alder		99-028	South Fork 98	Temp. Crossing	THP Mitigation	III		0	0	0	0	0	\$0	0
Private Seasonal	74	0.000	Unk	5/20/2002		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
Class III temporary crossing. Culvert, etc.																	
40.1261	75	0.100	Lewicki Kelly		99-028	South Fork 98	Surface Drainage	THP Mitigation	N/A		0	0	0	0	0	\$0	0
Private Seasonal	75	0.000	Unk	7/1/2000		ECP Not	Rock Surface	Medium	-	-	0	0	0	0	0	\$0	0
Fabric and rock.																	
40.1261	76	0.200	Lewicki Alder		99-028	South Fork 98	Temp. Crossing	THP Mitigation	III		0	0	0	0	0	\$0	0
Private Seasonal	76	0.000	Unk	8/20/2002		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
Class II temporary crossing. Culvert, etc. Grass seed and straw mulch.																	
40.1261	76	0.220	McCanl		Storm Pro	Storm Proofing	Temp. Crossing	Storm Proofing	III		0	0	0	0	0	\$0	0
Deactivated	1353	0.000	Unk	7/1/2000		ECP Not	No Action	Low	-	-	0	0	0	0	0	\$0	0
pulled crossing side slopes steep channel to grade no treat																	
40.1261	76	0.220	Haschak Pehl		07-155	Willow	Temp. Crossing	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	4149	0.000	Unk	10/15/2008		ECP Not	Remove Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Install temporary pipe adequate to handle any flows anticipated. Spitfler crossing (choked logs covered by hay covered by dirt) may be used to reduce fill in crossing. Pull crossing down to grade and pull back banks to stable repose at close of operations.																	
40.16	987	1.200	Alden Alder		Maintena	Maintenance	Inside ditch	Maintenance	N/A		0	0	0	0	0	\$855	0
Private Seasonal	987	0.000	WL	7/24/2000		ECP Not	Culv. Ditch Relief	Medium	-	18"	0	0	0	0	0	\$0	0
40.16	2070	1.250	Pehl		03-108	Miller ridge	Fill - Road	THP Mitigation	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2070	0.000	Unk	11/15/2003		ECP Not	Dip Rolling	THP Low	-	-	0	0	0	0	0	\$0	0
Appurtenant road to Unit 1. The 24" plastic culvert will be left intact. The section of road that crosses this point shall be either crowned or out-sloped, and additional rock will be place on this section of road.																	
40.161655	2069	0.180	Pehl		03-008	Miller ridge	Dip Rolling	THP Mitigation	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2069	0.000	GE	9/15/2004		ECP Not	Armored Ford	THP Low	-	-	0	0	0	0	0	\$0	0
Unit 1, existing road crossing on a Class III. Dip and install a rock-armored ford crossing to prevent downcutting of water during periods of flow.																	
40.19	2016	0.000	Pehl Pehl		Maintena	Maintenance	No Problem	Maintenance	N/A		0	0	0	0	11	\$825	0
Private Perm.	2016	3.800	WL	5/2/2002		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
River road grading Annapolis Road to Buckeye Creek.																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Car.	Labor	Yds	S/FSD	FSD Yds
40.19	2736	0.000	Pebl	Pebl	99-445	Flats South	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Perm.	2736	3.750	Unk	1/6/2006		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Wet weather inspection. One culvert needs a backhoe to unplug.																	
40.19	2740	0.000	Pebl	Pebl	99-445	Flats South	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Perm.	2740	3.750	Unk	1/6/2006		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
One plugged culvert. Watercourse not diverting. Arranging replacement. Road passable.																	
40.19	2315	0.040	Alden	Alden	Maintena	Maintenance	No Problem	Maintenance	N/A	0	0	0	0	0	0	\$4,000	0
Private Seasonal	2315	0.000	GB	11/1/2003		ECP Not	Gate	Low	-	-	0	0	0	0	0	\$0	0
40.19	1992	0.150	Pebl	Pebl	Storm Pro	Storm Proofing	Other	Storm Proofing	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	1992	0.000	ME	4/29/2002		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
Unnecessary road. Cross drain with waterbars/ditches. Block both ends to 4X4 traffic.																	
40.19	1122	0.200	Alden	Alden	Maintena	Maintenance	No Problem	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	1122	0.000	Unk	12/5/2000		ECP Not	Gate	Low	-	-	0	0	0	0	0	\$0	0
40.19	5460	0.240	Pebl	Pebl	04-275	Redbud	Surface Drainage	THP App. Rd.	N/A	0	0	0	9	9	0	\$2,380	0
Private Seasonal	5460	0.000	R&S	11/14/2005		ECP Not	Rock Surface	Medium	-	-	0	0	5	0	0	\$0	0
Reshape and rock road surface at points 1994, 1995, 1996.																	
40.19	1994	0.250	Pebl	Pebl	04-275	Redbud	Inside ditch	THP App. Rd.	II	0	0	0	6	0	0	\$3,546	0
Private Perm.	1994	0.000	R&S	11/14/2005		ECP Not	Culv. Install	THP Low	-	30"	60	0	7	5	0	\$0	0
Draw intersects road and runs into inside ditch. Install 30" culvert at grade. The work on this culvert should be done when the crossing is dry, however if it isn't dry the water will be piped around the site while work is in progress. Any excess soil that remains at this crossing shall be placed in a stable location and at a stable angle of repose and will be mulched to prevent soil movement.																	
40.19	1995	0.270	Pebl	Pebl	04-275	Redbud	Fill - Road	THP App. Rd.	N/A	0	0	0	7	0	0	\$3,215	0
Private Seasonal	1995	0.000	R&S	11/14/2005		Redbud	Culv. Replace	THP Low	18"	24"	80	0	0	12	0	\$0	0
Shotgunned culvert with failed fill edge. Rebuild fill edge. Armor culvert outlet. The work on this culvert should be done when the crossing is dry, however if it isn't dry the water will be piped around the site while work is in progress. Any excess soil that remains at this crossing shall be placed in a stable location and at a stable angle of repose and will be mulched to prevent soil movement.																	
40.19	1996	0.280	Pebl	Pebl	04-275	Redbud	Inside ditch	THP App. Rd.	III	0	0	0	0	0	0	\$2,697	0
Private Seasonal	1996	0.000	R&S	11/14/2005		ECP Not	Culv. Install	THP Low	-	24"	60	0	3	11	0	\$0	0
Small watercourse intersects road. Install 24" culvert at grade. The work on this culvert should be done when the crossing is dry, however if it isn't dry the water will be piped around the site while work is in progress. Any excess soil that remains at this crossing shall be placed in a stable location and at a stable angle of repose and will be mulched to prevent soil movement.																	
40.19	2010	0.500	Pebl	Pebl	Maintena	Maintenance	Surface Drainage	Maintenance	N/A	0	0	0	32	57	0	\$9,570	0
Private Seasonal	2010	3.750	ME	4/14/2012		ECP Not	Other	Medium	-	-	0	0	35	0	0	\$0	0
Improved surface drainage and cross drainage of the river road by dipping and filling low spots.																	
40.19	1927	0.470	Pebl	Pebl	Maintena	Maintenance	Surface Drainage	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Perm.	1927	0.000	ME	4/29/2002		ECP Not	Excavate Soil	Medium	-	-	0	0	0	0	0	\$0	0
Landing inslopes to road. Excavate ditch across NW edge of landing to drain away from road. Make ditch deep enough and wide enough to be able to be swept with a grader.																	
40.19	1926	0.500	Pebl	Pebl	Maintena	Maintenance	Culv.	Storm Proofing	III	0	0	0	0	0	0	\$1,238	0
Private Perm.	1926	0.000	ME	4/29/2002		ECP Not	Culv. Replace	Medium	24"	36"	30	0	0	0	0	\$0	0
Upsize pipe to match pipe upstream (Site 824) when it is upgraded. Remove outside berm and build up road surface to reduce diversion potential.																	

6/8/12

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
40.19	1918	0.500	Pehl	Pehl	Maintena	Maintenance	Surface Drainage	Maintenance	N/A	0	0	0	133	14	0	\$20,110	0
Private Seasonal	1918	3.750	ME	11/15/2002		ECP Not	Other	THP Low	-	-	0	0	12	98	0	\$0	0
Drain and fill puddles on the river road. Also work in the Shepard's Opening Pit.																	
40.19	1925	0.540	Pehl	Pehl	Maintena	Maintenance	Surface Drainage	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Perm.	1925	0.000	ME	4/30/2002		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
Outslope and dip road to drain towards ditch.																	
40.19	17	1.000	Kelly	Kelly	95-485	North Stanley	No Problem	THP New Con.	N/A	0	0	0	0	0	0	\$358	0
Private Seasonal	17	0.000	RR	8/14/1998		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
40.19	551	2.530	Haschak	Pehl	99-445	Flats South	Other	THP Mitigation	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	551	0.000	Unk	10/15/2001		ECP Not	Other	THP Med	-	-	0	0	0	0	0	\$0	0
At this point the existing road just barely enters the WLPZ of a class II. Widen the road and realign the road a few feet to the north in order to stay out of the WLPZ. The WLPZ boundary is painted on the ground so that you can see where the road needs to be.																	
40.19	1140	6.900			Maintena	Maintenance	No Problem	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	1140	0.000	Unk	7/1/2000		ECP Not	Gate	Low	-	-	0	0	0	0	0	\$0	0
40.1908	2012	0.000	Pehl	Pehl	Maintena	Maintenance	Surface Drainage	Storm Proofing	N/A	0	0	0	44	23	0	\$9,770	435
Storm Proofed	2012	0.830	ME	5/4/2002		ECP Not	Other	Medium	-	-	0	0	40	0	0	\$24	435
40.1908	5713	0.000	Chidlaw	Chidlaw	Maintena	Maintenance	Other	Maintenance	N/A	0	0	0	0	0	0	\$333	0
Private Seasonal	5713	0.600		8/1/2011		ECP Not	Herbicides	Medium	-	-	0	0	0	9	0	\$0	0
40.1905	824	0.020	McCam	Pehl	Storm Pro	Storm Proofing	Culv.	Storm Proofing	II	0	0	0	3	0	0	\$2,350	15
Private Perm	824	0.000	ME	4/29/2002		ECP Not	Culv. Replace	Medium	24"	36"	40	0	3	4	100	\$157	15
A 24" cmp on a class 2 stream channel was constructed above inlet for 45' and below outlet for 60'. Both channel have vertical side slopes. Cmp appears undersized. Treat: replace with 36" cmp to grade, lay sides back 2 to 1 above and below cmp, add critical dip to right hinge point.																	
40.1908	1928	0.100	Pehl	Pehl	Maintena	Maintenance	Inside ditch	Storm Proofing	N/A	0	0	0	0	0	0	\$472	0
Private Perm.	1928	0.000	ME	4/29/2002		ECP Not	Culv. Ditch Relief	Medium	-	18	40	0	0	0	0	\$0	0
Install additional cross drain to disconnect watercourse/seep below from road drainage. Install pipe at 45 degree angle to road. Outslope and mildly dip road near pipe.																	
40.1908	1929	0.120	Pehl	Pehl	Maintena	Maintenance	Surface Drainage	Storm Proofing	N/A	0	0	0	0	0	0	\$0	0
Private Perm.	1929	0.000	ME	4/29/2002		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
Outslope and dip road to shed surface drainage.																	
40.1908	1930	0.200	Pehl	Pehl	Maintena	Maintenance	Culv.-HDP	Storm Proofing	N/A	0	0	0	0	0	0	\$0	0
Private Perm.	1930	0.000	ME	4/29/2002		ECP Not	Dip Critical	Medium	18"	-	0	0	0	0	0	\$0	0
Existing 18" CMP drains ditch and seep. Downgrade from the pipe remove outside berm and build and outslope to the road to reduce pipe diversion potential and shed surface drainage off road.																	
40.1908	1931	0.220	Pehl	Pehl	Maintena	Maintenance	Surface Drainage	Storm Proofing	N/A	0	0	0	0	0	0	\$0	0
Private Perm.	1931	0.000	ME	4/29/2002		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
Remove outside berm. Build up inside road edge with gravel to outslope. Shape a mild dip into road.																	
40.1908	1932	0.240	Pehl	Pehl	Maintena	Maintenance	Culv.-Ditch Relief	Maintenance	N/A	0	0	0	0	0	0	\$708	0
Private Perm.	1932	0.000	ME	4/29/2002		ECP Not	Culv. Ditch Relief	Medium	18"	18"	60	0	0	0	0	\$0	0
Poor functioning cross drain. Plug existing pipe and fill in outlet ditch. To the south of old pipe install an 18"X60' CMP at an angle and slope sufficient to drain properly. Excavate a collection basin and berm to collect ditch and landing seeps. Brush area to increase visibility. Rerock road to increase curve radius.																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds	
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds	
40.1908	825	0.330	McCarl	Pehl	Maintena	Maintenance	Culv.-Ditch Relief	Storm Proofing	N/A		0	0	0	1	0	0	\$250	0
Private Perm.	825	0.000	ME	10/15/2002		ECP Not	Dip Rolling	Medium	-	-	0	0	1	0	0	\$0	0	
A 18" DRC. With flow draining down slope to road where it flow left down road 175' than exiting over obf. Minor erosion. Treat: clear inlet and outlet of DRC install rocked rolling dip on lower road.																		
40.1908	1933	0.400	Pehl	Pehl	Maintena	Maintenance	Inside Ditch	Maintenance	N/A		0	0	0	0	0	0	\$0	0
Private Perm.	1933	0.000	ME	4/29/2002		ECP Not	Rock Surface	Medium	-	-	0	0	0	0	0	\$0	0	
Eroding ditch. Fill with gravel and reshape ditch. Fill to a level which will increase curve radius and eliminate truck trap.																		
40.1908	2155	0.490	Pehl	Pehl	93-008	miller ridge	Surface Drainage	THP Mitigation	N/A		0	0	0	0	0	0	\$0	0
Private Seasonal	2155	0.500	Chk	11/15/2003		ECP Not	Tip and Dip	THP Low	-	-	0	0	0	0	0	\$0	0	
On this steeper section of road, the road shall be either outslotted or crowned and properly drained by installing waterbars or rolling dips at intervals appropriate to meet the forest practice rules.																		
40.1908	828	0.490	McCarl	Pehl	Maintena	Maintenance	Culv.-Ditch Relief	Maintenance	N/A		0	0	0	1	0	0	\$120	0
Private Perm.	828	0.000	ME	4/29/2002		ECP Not	Culv. Maintenance	Medium	18"	-	0	0	0	0	0	\$0	0	
clean outlet area																		
40.1908	5852	0.500	Chidlaw	Chidlaw	Maintena	Maintenance	Other	Maintenance	N/A		0	0	0	0	0	0	\$610	0
Private Seasonal	5852	2.400		8/1/2012		ECP Not	Herbicides	Medium	-	-	0	0	0	0	0	\$0	0	
40.1908	1934	0.600	Pehl	Pehl	Maintena	Maintenance	Dip Rolling	Storm Proofing	N/A		0	0	0	0	0	0	\$0	0
Private Seasonal	1934	0.000	ME	4/29/2002		ECP Not	Rock Surface	Medium	-	-	0	0	0	0	0	\$0	0	
Existing dip is seasonally muddy. Increase dip length and surface with rock.																		
40.1908	1935	0.650	Pehl	Pehl	Maintena	Maintenance	Dip Rolling	Storm Proofing	N/A		0	0	0	0	0	0	\$0	0
Private Seasonal	1935	0.000	ME	4/29/2002		ECP Not	Rock Surface	Medium	-	-	0	0	0	0	0	\$0	0	
Persistent mud hole. Straighten out landing to drain. Build a rock rolling dip. Underlay with fabric if necessary.																		
40.1908	1936	0.700	Pehl	Pehl	Maintena	Maintenance	Surface Drainage	Storm Proofing	N/A		0	0	0	0	0	0	\$0	0
Private Seasonal	1936	0.000	ME	4/29/2002		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0	
Wet landing area below. Cross drain with rolling dip. Rock Surface.																		
40.1908	1937	0.720	Pehl	Pehl	Maintena	Maintenance	Surface Drainage	Storm Proofing	N/A		0	0	0	0	0	0	\$0	0
Private Seasonal	1937	0.000	ME	4/29/2002		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0	
Cross drain with rolling dip. Resurface with rock.																		
40.1908	2489	1.870	Pehl	Pehl	04-275	Redbud	Surface Drainage	THP App. Rd.	II		0	0	0	0	0	0	\$0	0
Private Seasonal	2489	0.000	R&S	10/13/2006		ECP Not	Dip Rolling	THP Low	-	-	0	0	0	0	0	\$0	0	
High storm flows partially divert above and discharge at this point. Install rocked ford that will channel flow during high flow periods. Maintain and enhance inside ditch that takes the water to the culvert at crossing 830. Shape road surface to prevent diversion. (Minimize excavation, tree removal, and general disturbance of the areas adjacent to the road in this area. Do not leave the road surface without permission from supervising RPF) As an alternative a 24" culvert can be installed at this point.																		
40.1908	830	1.880	McCarl	Pehl	04-275	Redbud	Culv.	THP App. Rd.	III		0	0	0	2	0	0	\$320	0
Private Perm.	830	0.000	R&S	10/13/2006		Redbud	Excavate Soil	THP Low	24"	24"	0	0	1	0	0	\$0	0	
A 24" CMP watercourse crossing, stream has multiple channels above inlet. A portion of the watercourse diverts down an old skid trail and at high flow crosses the road south of the culvert. Above and below crossing no channel confinement, until 150' below outlet very little fill covering emp, and very little roadfill though entire crossing. Enhance inside ditch between road point 830 and 2489 without leaving road surface. Partially fill inside ditch between pipes with rock. Outslope crossing area, shape to prevent diversion, and surface with rock sufficient to handle pipe overflow. (Minimize excavation, tree removal, and general disturbance of the areas adjacent to the road in this area.)																		

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Car.	Labor	Yds	S/FSD	FSD Yds
40.1908	831	2.020	McCanl	Pehl	04-275	Redbud	Dip Rolling	THP App. Rd.	N/A	0	0	0	0	0	0	\$205	5
Private Seasonal	831	0.000	R&S	10/13/2006		Redbud	Dip Rolling	THP Low	-	-	0	0	0	0	0	\$41	5
A rolling dip receives approximately 400' of road surface drainage. Dip located 180' above this is non-functioning. Flow from this dip delivers to watercourse 90' to left. Treatment: Remove outside berms and outslope road. Repair both rolling dips. Re-direct outlet of lower dip to left through more vegetation.																	
40.1908	2488	2.050	Pehl	Pehl	04-275	Redbud	Dip Rolling	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2488	0.000	R&S	10/13/2006		Redbud	Dip Rolling	THP Low	-	-	0	0	0	0	0	\$0	0
Rolling dips in this area failing. Remove outside berms and outslope road. Repair existing dips.																	
40.1908	364	2.370	Haschak	Pehl	09-069	Aspen	Dip Rolling	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5243	0.000	Unk	5/8/2013		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
Install rolling dip at this location.																	
40.1908	553	2.400	Haschak	Pehl	99-354	Bertha	Fill - Road	THP Mitigation	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	553	0.000	WL	7/20/2000		ECP Not	Excavate Soil	THP High	-	-	0	0	0	0	0	\$0	0
Fill is failing at edge of road. Excavate and place in stable location. While in this immediate area (between 2.3 and 2.5 miles on road 40.1908), other areas of road fill that can be easily stabilized should be excavated and placed in stable location.																	
40.1908	351	2.410	Haschak	Pehl	09-069	Aspen	Temp. Crossing	THP App. Rd.	Spr	0	0	0	0	0	0	\$0	0
Private Seasonal	5203	0.000	Unk	10/15/2013		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Install 4" or larger spring drain pipe if water is present at time of operations. Place a layer of straw or filter fabric in channel prior to fill placement in order to help relocate channel bottom when channel is being pulled. Spring drain should be left in functioning condition at close of operations or pulled prior to the winter period. If crossing is pulled the operator should make sure that the spring is draining and that water will not be saturating road.																	
40.1908	352	2.420	Haschak	Pehl	09-069	Aspen	Temp. Crossing	THP App. Rd.	Spr.	0	0	0	0	0	0	\$0	0
Private Seasonal	5202	0.000	Unk	10/15/2013		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Install 4" or larger spring drain pipe if water is present at time of operations. Place a layer of straw or filter fabric in channel prior to fill placement in order to help relocate channel bottom when channel is being pulled. Spring drain should be left in functioning condition at close of operations or pulled prior to the winter period. If crossing is pulled the operator should make sure that the spring is draining and that water will not be saturating road.																	
40.1908	5201	2.430	Haschak	Pehl	09-069	Aspen	Temp. Crossing	THP App. Rd.	Spr.	0	0	0	0	0	0	\$0	0
Private Seasonal	5201	0.000	Unk	10/15/2013		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Install 4" or larger spring drain pipe if water is present at time of operations. Place a layer of straw or filter fabric in channel prior to fill placement in order to help relocate channel bottom when channel is being pulled. Spring drain should be left in functioning condition at close of operations or pulled prior to the winter period. If crossing is pulled the operator should make sure that the spring is draining and that water will not be saturating road.																	
40.1908	351	2.450	Haschak	Pehl	99-354	Bertha	Temp. Crossing	THP Recon.	Spr.	0	0	0	0	0	0	\$0	0
Private Seasonal	351	0.000	WL	7/20/2000		ECP Not	Temp. Crossing	THP High	-	-	0	0	0	0	0	\$0	0
install 6" spring drain pipe if water is present at time of operations. Spring drain should be left in functioning condition at close of operations or pulled to the standards of 923.3d prior to the winter period. If crossing is pulled the operator should make sure that the spring is draining and that water will not be saturating road.																	
40.1908	352	2.470	Haschak	Pehl	99-354	Bertha	Temp. Crossing	THP Recon.	Spr.	0	0	0	0	0	0	\$0	0
Private Seasonal	352	0.000	WL	7/20/2000		ECP Not	Temp. Crossing	THP High	-	-	0	0	0	0	0	\$0	0
install 6" spring drain pipe if water is present at time of operations. Spring drain should be left in functioning condition at close of operations or pulled to the standards of 923.3d prior to the winter period. If crossing is pulled the operator should make sure that the spring is draining and that water will not be saturating road.																	
40.190812	827	0.020	McCanl	Pehl	Maintena	Maintenance	Other	Storm Proofing	II	0	0	0	8	0	0	\$2,349	15
Private Perm.	827	0.000	Unk	5/4/2004		ECP Not	Culv. Install	High	-	24"	40	0	6	2	125	\$157	15
A class3 diverted to the right to a 18" cmp (8b) then flowing down inside ditch to a 18" cmp (8c) then back into the original channel. Treat: remove 18" cmp (8a) install 24" cmp at grade and directed to class 3 stream clear channel above, install CD right hinge, and 1 rolling dip 65' to left for ditch disconnect. Clear inlet and outlet of 18" (8c), rock armour outlet area.																	

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Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
40.190817	5714	0.000	Chidlaw	Chidlaw	Maintena	Maintenance	Other	Maintenance	N/A	0	0	0	0	0	0	\$715	0
Private Seasonal	5714	1.290		5/1/2011		FCP Not	Herbicides	Medium	-	-	0	0	0	19	0	\$0	0
40.190817	2474	0.100	Pehl	Pehl	Maintena	Maintenance	No Problem	THP... Not	III	0	0	0	0	0	0	\$0	0
Private Perm.	2474	0.000	Unk	11/2/2004		ECP Not	No Action	No Action	18"	-	0	0	0	0	0	\$0	0
18" CMP flows very little water. No contiguous watercourse to pipe inlet, but scoured channel visible farther up draw. No action necessary																	
40.190817	1959	0.180	McCarl	Pehl	04-275	Redbud	Culv. HDP	THP App. Rd.	III	0	0	0	1	1	0	\$280	0
Private Perm.	1959	0.000	R&S	10/13/2005		ECP Not	Dip Critical	THP Low	24"	-	0	0	1	0	0	\$0	0
Enhance critical dip.																	
40.190817	1960	0.260	McCarl	Pehl	Maintena	Maintenance	No Problem	THP... Not	N/A	0	0	0	0	0	0	\$0	0
Private Perm.	1960	0.000	Unk	11/2/2004		ECP Not	No Action	No Action	12"	-	0	0	0	0	0	\$0	0
Existing 12" ditch relief culvert. No treatment necessary.																	
40.190817	2475	0.310	Pehl	Pehl	04-275	Redbud	Inside ditch	THP App. Rd.	N/A	0	20	200	0	0	0	\$472	0
Private Perm.	2475	0.000	R&S	11/14/2005		ECP Not	Culv. Install	THP Low	-	18"	40	0	0	0	0	\$0	0
Install a rocked rolling dip or 18" CMP to cross-drain ditch.																	
40.190817	1962	0.460	McCarl	Pehl	04-275	Redbud	Other	THP App. Rd.	III	0	40	0	8	2	0	\$2,498	5
Private Perm.	1962	0.000	R&S	10/13/2006		Redbud	Dip Rolling	THP Low	-	18"	60	0	8	2	120	\$500	5
This segment of road between points 1962 and 1963 will have 5 or 6 cross drains put in. Rolling dips are the preferred method to be installed but grade may be too steep for dips in which case 18" CMP's can be used. Water bar or put in dips on the road to the west that runs parallel to this road (not shown on map) so that water does not run down this road as a result of this road work. RPF shall supervise work on this segment of road.																	
40.190817	2476	0.550	Pehl	Pehl	Maintena	Maintenance	No Problem	THP... Not	N/A	0	0	0	0	0	0	\$0	0
Private Perm.	2476	0.000	Unk	11/2/2004		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Old watercourse channel. Diverted above road.																	
40.190817	1963	0.550	McCarl	Pehl	04-275	Redbud	Culv.	THP App. Rd.	II	0	10	0	1	1	0	\$190	10
Private Perm.	1963	0.000	R&S	10/13/2006		Redbud	Culv. Maintenance	THP Low	30"	-	0	0	0	0	0	\$19	10
Rock armor below outlet with rip rap of adequate size to withstand high flows. Construction at this location shall be done while water is not flowing in the watercourse. As an alternative, if construction at this location will be performed during the time water is flowing, the project proponent shall notify DFG for an SAA pursuant to Section 1600 et seq. of the Fish and Game Code.																	
40.190817	1964	0.620	McCarl	Pehl	04-275	Redbud	Culv.	THP App. Rd.	III	0	0	0	1	0	0	\$115	0
Private Perm.	1964	0.000	R&S	10/13/2006		Redbud	Culv. Maintenance	THP Low	18"	-	0	0	0	1	0	\$0	0
Clean pipe inlet area. Add down spout or energy dissipator of adequate size to withstand high flows.																	
40.190817	1967	0.580	McCarl	Pehl	Maintena	Maintenance	No Problem	THP... Not	III	0	0	0	0	0	0	\$0	0
Private Perm.	1967	0.000	Unk	11/2/2004		ECP Not	No Action	No Action	18"	-	0	0	0	0	0	\$0	0
Existing 18" CMP. Flows very little water. NO TREATMENT.																	
40.190817	565	1.100	Kelly	Kelly	Maintena	Maintenance	Fill - Road	THP App. Rd.	N/A	0	0	0	15	0	0	\$1,425	0
Private Perm.	565	0.000	RB	1/2/1999		ECP Not	Excavate Soil	THP Low	-	-	0	0	0	0	0	\$0	0
40.190817	1975	1.290	McCarl	Pehl	04-275	Redbud	Humboldt	THP App. Rd.	II	0	20	0	3	1	0	\$510	200
Private Perm.	1975	0.000	R&S	10/13/2006		Redbud	Dip Rolling	THP Low	36"	-	0	0	1	1	1,240	\$3	200
Install rolling dip 50 feet north of culvert. Rip- Rap outside edge of road to stabilize fill. Add critical dip to prevent plug diversion.																	
40.190845	2486	0.000	Pehl	Pehl	04-275	Redbud	No Problem	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Temp.	2486	0.100	AL	10/15/2005		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
Proposed seasonal road. Remove any outside berms and outslope where possible. Waterbar at close.																	

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Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
40.190873	2485	0.110	Pehl	Pehl	04-275	Redbud	Surface Drainage	THP App. Rd.	III		0	0	0	0	0	\$0	0
Private Seasonal	2485	0.000	R&S	11/14/2005		ECP Not	Temp. Crossing	THP Low	-	-	0	0	0	0	0	\$0	0
Road crosses a very small class III. Dip crossing, install 5" temporary pipe if wet at time of operations. Upon completion or before October 15th of any year crossing is used, remove any pipes, dip out to grade and seed and mulch as per THP Item 18. As an alternative a rocked ford may be constructed at this location.																	
40.19087327	2487	0.000	Pehl	Pehl	04-275	Redbud	No Problem	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Temp.	2487	0.120	AL	10/15/2005		SCP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
Proposed seasonal road. Remove any outside berms and outslope where possible. Waterbar at close.																	
40.1923	2154	0.570	Haschak	Pehl	08-090	Saker	No Problem	THP App. Rd.	II		0	0	0	3	0	\$684	0
Private Seasonal	2154	0.800	R&S	10/5/2010		ECP Not	Dip Rolling	Medium	-	-	0	0	3	1	0	\$0	0
Do not dip out or wet area will drain. Maintain as is.																	
40.1923	2152	0.600	Haschak	Pehl	08-090	Saker	Inside ditch	THP App. Rd.	II		0	20	0	2	0	\$3,459	10
Private Seasonal	2152	0.000	R&S	10/5/2010		ECP Not	Rock Surface	Medium	-	-	0	0	8	0	0	\$346	10
Shape road so it tilts to the west towards the class II water course and construct ditch so all of the water from this water course will flow towards the channel on the south side of the road. The entire length of roadway adjacent to the ditch approximately 50' will be rocked and the ditch armored and shall have a cross-sectional area equivalent to a 36" culvert.																	
40.1923	2252	0.690	Haschak	Pehl	08-090	Saker	Other	THP Non-Road	II		0	0	0	0	0	\$0	0
Private Seasonal	2252	0.000	R&S	10/5/2010		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
WLPZ landing. Place brow logs or earth berm on north side of landing. Seed and mulch area at close of operations. Slash pack skid trail that is east of this landing where it is in the thru-cut. Main haul road and skid trails that access this landing also briefly enter the WLPZ of the small pond adjacent to the road. Waterbar and seed and mulch to item 18 standards any area of bare soil 100 square feet or larger outside of the running surface of the road.																	
40.1923	2151	0.700	Haschak	Pehl	08-090	Saker	Dip Rolling	THP App. Rd.	II		0	0	0	4	0	\$888	0
Private Seasonal	2151	0.000	R&S	10/5/2010		ECP Not	Dip Rolling	Medium	-	-	0	0	4	2	0	\$0	0
Create rolling dip so that water doesn't run down road. Install temporary pipe if wet at time of operations.																	
40.1923	2150	0.820	Haschak	Pehl	08-090	Saker	Dip Rolling	THP App. Rd.	II		0	0	0	4	0	\$779	0
Private Seasonal	2150	0.000	R&S	10/5/2010		ECP Not	Dip Rolling	Medium	-	-	0	0	3	2	0	\$0	0
Maintain CII rolling dip. Install temporary pipe if wet at time of operations.																	
40.1923	2153	0.850	Haschak	Pehl	08-090	Saker	Dip Rolling	THP App. Rd.	N/A		0	0	0	0	0	\$238	0
Private Seasonal	2153	0.000	R&S	10/5/2010		ECP Not	Dip Rolling	Medium	-	-	0	0	3	0	0	\$0	0
Out slope road prism and drain with rolling dips between the two sag ponds adjacent to this road point.																	
40.1923	2149	0.890	Haschak	Pehl	08-090	Saker	Dip Rolling	THP App. Rd.	III		0	0	0	3	0	\$191	0
Private Seasonal	2149	0.000	R&S	10/5/2010		ECP Not	Dip Rolling	Medium	-	-	0	0	2	0	0	\$0	0
Create rolling dip.																	
40.1923	2147	1.120	Haschak	Pehl	08-090	Saker	Dip Rolling	THP App. Rd.	Spr.		0	0	0	4	0	\$835	0
Private Seasonal	2147	0.000	R&S	10/5/2010		ECP Not	Dip Rolling	Medium	-	-	0	0	4	0	0	\$0	0
Maintain rolling dip.																	
40.1923	2146	1.170	Haschak	Pehl	08-090	Saker	Temp. Crossing	THP App. Rd.	II		0	0	0	3	0	\$697	0
Private Seasonal	2146	0.000	R&S	10/5/2010		ECP Not	Temp. Crossing	Medium	-	-	0	0	4	0	0	\$0	0
Install temporary 5" or larger pipe (adequate to handle flow) if wet at time of operations. After using crossing pull all fill down to natural grade of watercourse and slope back banks to stable repose.																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	S/FSD	FSD Yds
40.1923	2145	1.200	Haschak Pehl	08-090	Saker	Dip Rolling	THP App. Rd.	III		0	0	0	0	0	0	\$381	0
Private Seasonal	2145	0.000	R&S	10/5/2010	ECP Not	Dip Rolling	Medium	-	-	0		0	4	0	0	\$0	0
Enhance rolling dip on class III xing. Install temporary pipe if wet at time of operations.																	
40.1923	2144	1.250	Haschak Pehl	08-090	Saker	Dip Rolling	THP App. Rd.	N/A		0	0	0	0	0	0	\$381	0
Private Seasonal	2144	0.000	R&S	10/5/2010	ECP Not	Dip Rolling	Medium	-	-	0		0	4	0	0	\$0	0
Maintain existing rolling dip.																	
40.1923	2251	1.270	Haschak Pehl	08-090	Saker	Other	THP Non-Road	II		0	0	0	0	0	0	\$286	0
Private Seasonal	2251	0.000	R&S	10/5/2010	ECP Not	Other	Medium	-	-	0		0	3	0	0	\$0	0
WLPZ landing. Existing berm should be sufficient to protect class II watercourse. Road system and skid trail to the south enters WLPZ of small pond and will be used for skidding logs to the landing. Waterbar and seed and mulch to item 18 standards any area of bare soil 100 square feet or larger outside of the running surface of the road.																	
40.1923	2143	1.280	Haschak Pehl	08-090	Saker	Dip Rolling	THP App. Rd.	II		0	0	0	0	0	0	\$286	0
Private Seasonal	2143	0.000	R&S	10/5/2010	ECP Not	Dip Rolling	Medium	-	-	0		0	3	0	0	\$0	0
Install rolling dip. Install temporary pipe if wet at time of operations.																	
40.1923	2142	1.380	Haschak Pehl	08-090	Saker	Dip Rolling	THP App. Rd.	N/A		0	0	0	0	0	0	\$381	0
Private Seasonal	2142	0.000	R&S	10/5/2010	ECP Not	Dip Rolling	Medium	-	-	0		0	4	0	0	\$0	0
Maintain existing rolling dip																	
40.1923	2199	1.390	Haschak Pehl	08-090	Saker	Dip Rolling	THP App. Rd.	N/A		0	0	0	0	0	0	\$381	0
Private Seasonal	2199	0.000	R&S	10/5/2010	ECP Not	Dip Rolling	Medium	-	-	0		0	4	0	0	\$0	0
Maintain existing rolling dip																	
40.1923	2140	1.480	Haschak Pehl	08-090	Saker	Culv.-Plug	THP App. Rd.	II		0	0	0	0	0	0	\$0	58
Private Seasonal	2140	0.000	R&S	10/5/2010	ECP Not	Temp. Crossing	Medium	-	-	0		0	0	0	0	\$0	58
Install temporary 5" or larger pipe (adequate to handle flow) if wet at time of operations. After using crossing pull all fill down to natural grade of watercourse and slope back banks to stable repose.																	
40.1923	2139	1.580	Haschak Pehl	08-090	Saker	Dip Rolling	THP App. Rd.	N/A		0	0	0	0	0	0	\$0	0
Private Seasonal	2139	0.000	R&S	10/5/2010	ECP Not	Dip Rolling	Medium	-	-	0		0	0	0	0	\$0	0
Maintain or enhance existing rolling dip.																	
40.1923	4502	1.600	Haschak Pehl	08-090	Saker	Slide - Shallow	THP App. Rd.	N/A		0	0	0	0	0	0	\$0	0
Private Seasonal	4502	0.000	R&S	10/5/2010	ECP Not	Excavate Soil	Medium	-	-	0		0	0	0	0	\$0	0
Bank slump. Spread on road.																	
40.1923	2138	1.750	Haschak Pehl	08-090	Saker	Dip Rolling	THP App. Rd.	N/A		0	0	0	0	0	0	\$0	0
Private Seasonal	2138	0.000	R&S	10/5/2010	ECP Not	Dip Rolling	Medium	-	-	0		0	0	0	0	\$0	0
Construct rolling dip in order to drain bank seepage directly across road. The road prism shall be built up and insloped from the constructed rolling dip to the head of the sag pond. If road surface remains wet and soft then this section of road will be armored with road fabric and rock.																	
40.1923	5853	1.860	Chidlaw Chidlaw Maintena	Maintenance	Maintenance	Other	Maintenance	N/A		0	0	0	0	0	0	\$49	0
Private Seasonal	5853	1.900	8/1/2012	ECP Not	Herbicides	Medium	-	-	0		0	0	0	0	0	\$0	0
40.1932	4317	0.000	Pehl Pehl	04-275	Redbud	Surface Drainage	THP App. Rd.	N/A		0	0	0	6	0	0	\$1,230	196
Storm Proofed	4317	0.400	R&S	10/13/2006	ECP Not	Tip and Dip	Medium	-	-	0		0	6	0	0	\$6	196
Tip and Dip																	
40.1932	5715	0.000	Chidlaw Chidlaw Maintena	Maintenance	Maintenance	Other	Maintenance	N/A		0	0	0	0	0	0	\$746	0
Private Seasonal	5715	1.950	8/1/2011	ECP Not	Herbicides	Medium	-	-	0		0	0	21	0	0	\$0	0

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Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds	
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Car	Labor	Yds	\$/FSD	FSD Yds	
40.1932	4379	0.020	Allen	Allen	Maintena	Maintenance	No Problem	Maintenance	N/A		0	0	0	0	0	\$0	0	
Private Seasonal	4379	0.000	R&S	9/24/2007		ECP Not	Rock Pit	No Action	-	-	0	0	0	0	0	\$0	0	
Rock Pit																		
40.1932	1984	0.075	McCarl	Pehl	04-275	Redbud	Other	THP App. Rd.	III		0	20	0	1	2	0	\$827	0
Private Seasonal	1984	0.000	R&S	10/13/2006		ECP Not	Dip Rolling	THP Low	-	18"	40	0	1	0	0	\$0	0	
Install rocked ford with the outlet downslope from the redwood clump. If crossing will flow water during non-winter logging season then an 18' CMP can be installed as an alternative.																		
40.1932	1985	0.140	McCarl	Pehl	04-275	Redbud	Fill - Road	THP App. Rd.	III		0	30	0	1	1	0	\$1,385	2
Private Seasonal	1985	0.000	R&S	10/13/2006		Redbud	Dip Rolling	THP Low	-	24"	60	0	1	0	40	\$692	2	
Install rocked ford where small class III crosses road. If this crossing will flow water at time of operations then as an alternative excavate crossing down to natural stream grade, pull road fill from head of crossing. Install 24' CMP at stream grade. Remove berms from outside edge of adjacent road area.																		
40.1932	2483	0.170	Pehl	Pehl	04-275	Redbud	Surface Drainage	THP App. Rd.	III		0	30	0	1	0	0	\$1,310	0
Private Seasonal	2483	0.000	R&S	11/14/2005		ECP Not	Dip Rolling	THP Low	-	24"	60	0	1	0	0	\$0	0	
Small class III crosses road. Install rocked rolling dip. As an alternative if crossing will be flowing water at time of operations then excavate crossing to stream grade and install 24" CMP at grade.																		
40.1932	2482	0.170	Pehl	Pehl	04-275	Redbud	Surface Drainage	THP App. Rd.	N/A		0	0	0	0	0	\$0	0	
Private Seasonal	2482	0.330	R&S	11/14/2005		Redbud	Tip and Dip	THP Low	-	-	0	0	0	0	0	\$0	0	
Road is insloped and cross-drained with waterbars. Outslope road and cross-drain with rolling dips. Place dips where advantageous for drainage, spacing not to exceed 200 feet.																		
40.1932	1986	0.350	McCarl	Pehl	04-275	Redbud	Culv.	THP App. Rd.	II		0	0	0	0	0	\$0	132	
Private Seasonal	1986	0.000	R&S	10/13/2006		Redbud	Culv. Install	THP Low	30"	-	0	0	0	0	420	\$0	79	
Inspect outflow of culvert yearly during maintenance period to see if culvert is being undermined. Replace with 36" culvert at grade if culvert is in danger of failing. Construction at this location shall be done while water is not flowing in the watercourse. As an alternative, if construction at this location will be performed during the time water is flowing, the project proponent shall notify DFG for an SAA pursuant to Section 1600 et seq. of the Fish and Game Code.																		
40.1932	1987	0.400	McCarl	Pehl	04-275	Redbud	Humboldt	THP App. Rd.	III		0	40	0	2	1	0	\$2,014	156
Private Seasonal	1987	0.000	R&S	10/13/2006		Redbud	Dip Rolling	THP Low	-	30"	60	0	2	0	270	\$13	156	
Old log crossing. Use as is. Alternatives for this site are to 1)- pull crossing down to grade at close of operations and leave alone 2)- install a rock ford or 3)- install 30" CMP at grade.																		
40.1932	1988	0.550	McCarl	Pehl	04-275	Redbud	Culv.	THP App. Rd.	III		0	10	0	1	1	0	\$280	2
Private Perm.	1988	0.000	R&S	10/13/2006		Redbud	Dip Critical	THP Low	12"	-	0	0	1	0	60	\$140	2	
Add critical dip.																		
40.1932	1983	0.650	McCarl	Pehl	04-275	Redbud	Fill - Road	THP App. Rd.	N/A		0	0	0	7	0	\$1,435	80	
Private Perm.	1983	0.690	R&S	10/13/2006		Redbud	Tip and Dip	THP Low	-	-	0	0	7	0	470	\$13	80	
Outslope road in this area of sumping outside edge road fill (approximately 100-200 feet).																		
40.1932	1982	0.690	McCarl	Pehl	04-275	Redbud	Other	THP App. Rd.	N/A		0	0	0	0	0	\$180	0	
Private Perm.	1982	0.000	R&S	10/13/2006		ECP Not	Dip Rolling	THP Low	-	-	0	0	2	0	0	\$0	0	
Install rolling dip.																		
40.1932	1981	0.710	McCarl	Pehl	04-275	Redbud	Culv. Plug	THP App. Rd.	III		0	0	0	1	0	\$115	67	
Private Perm.	1981	0.000	R&S	10/13/2006		Redbud	Culv. Maintenance	THP Low	30"	-	0	0	0	0	0	\$0	67	
Clean inlet.																		
40.1932	1980	0.750	McCarl	Pehl	Maintena	Maintenance	No Problem	THP... Not	N/A		0	0	0	0	0	\$0	0	
Private Perm.	1980	0.000	Unk	11/2/2004		ECP Not	No Action	No Action	18"	-	0	0	0	0	0	\$0	0	
18" ditch relief culvert. No action.																		

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Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
40.1932	1978	0.810	McCarl	Pehl	04-275	Redbud	Culv.-Ditch Relief	THP App. Rd	N/A	0	0	0	0	0	0	\$115	0
Private Perm.	1978	0.000	R&S	10/13/2006		Redbud	Culv. Maintenance	THP Low	18"	-	0	0	0	0	0	\$0	0
Existing 18" ditch relief culvert. Clear inlet and outlet.																	
40.1932	1977	0.870	McCarl	Pehl	04-275	Redbud	Slide - Shallow	THP App. Rd.	II	0	0	0	0	0	0	\$0	0
Private Perm.	1977	0.000	Unk	10/13/2006		Redbud	Other	THP Low	-	-	0	0	0	0	0	\$0	0
See geologist report for road reconstruction. Landowner has the option of using this crossing if a geologist report has been submitted and approved as an amendment otherwise no mitigation is required and crossing will not be used.																	
Not reconstructed as part of thp.																	
40.1932	1976	1.000	McCarl	Pehl	04-275	Redbud	Culv.-Plug	THP App. Rd.	III	0	0	0	1	0	0	\$115	3
Private Perm.	1976	0.000	R&S	10/13/2006		Redbud	Culv. Maintenance	THP Low	24"	-	0	0	0	0	130	\$38	3
Clean inlet and outlet and if possible remove sediment that has accumulated in the last ten feet of pipe near outlet. Enhance critical dip.																	
40.1932	2484	1.230	Pehl	Pehl	04-275	Redbud	Temp. Crossing	THP App. Rd.	III	0	0	0	0	0	0	\$0	0
Private Seasonal	2484	0.000	R&S	11/14/2005		ECP Not	Armored Ford	Medium	-	-	0	0	0	0	0	\$0	0
Temporary class III crossing. Upgrade to rockford. Construction at this location shall be done while water is not flowing in the watercourse. As an alternative, if construction at this location will be performed during the time water is flowing, the project proponent shall notify DFG for an SAA pursuant to Section 1600 et seq. of the Fish and Game Code.																	
40.193238	5716	0.000	Chidlaw	Chidlaw	Maintena	Maintenance	Other	Maintenance	N/A	0	0	0	0	0	0	\$36	0
Private Seasonal	5716	0.050		8/1/2011		ECP Not	Herbicides	Medium	-	-	0	0	0	1	0	\$0	0
40.1944	2634	0.000	Haschak	Pehl	06-009	Ivy	Other	THP Non-Road	II	0	0	0	0	0	0	\$0	0
Private Seasonal	2634	0.000	Unk	9/26/2007		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
This point is a WLPZ landing. Seed and mulch landing and any disturbed soil to the standards of item 18 in section II.																	
40.1944	5717	0.440	Chidlaw	Chidlaw	Maintena	Maintenance	Other	Maintenance	N/A	0	0	0	0	0	0	\$473	0
Private Seasonal	5717	1.090		8/1/2011		ECP Not	Herbicides	Medium	-	-	0	0	0	13	0	\$0	0
40.1952	2566	0.250	Haschak	Pehl	06-009	Ivy	Cut Bank Failure	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2566	0.000	Unk	9/25/2007		ECP Not	Excavate Soil	Medium	-	-	0	0	0	0	0	\$0	0
Spread on road and/or ramp over.																	
40.1952	2565	0.420	Haschak	Pehl	06-009	Ivy	Temp. Crossing	Maintenance	III	0	0	0	0	0	0	\$0	3
Private Seasonal	2565	0.000	Unk	9/26/2007		IB106009SON	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	3
Install temporary 6" or larger pipe if wet at time of operations. Remove pipe and dip out at close of operations.																	
40.1952	568	0.500	Kelly	Kelly	Storm Pro	Storm Proofing	Surface Drainage	Storm Proofing	N/A	0	0	0	48	294	12	\$27,435	244
Upgraded	568	1.000	RB	10/22/1999		ECP Not	Rock Surface	Medium	-	-	0	0	82	0	0	\$112	244
Five contractors used on this road: WIFE, Baxman, Tri Tower, Bean, and Bed Rock.																	
40.1952	1040	0.550	Alden	Pehl	96-373	Powerline	Surface Drainage	THP Clean Up	N/A	0	0	0	0	0	0	\$225	244
Upgraded	1040	1.050	ME	11/28/2000		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$1	244
Rebuild rolling dips																	
40.19525706	1112	0.300	Alden	Alden	Maintena	Maintenance	No Problem	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	1112	0.000	Unk	12/6/2000		ECP Not	Gate	Low	-	-	0	0	0	0	0	\$0	0
40.1961	990	0.000	Alden	Alden	Maintena	Maintenance	Surface Drainage	Maintenance	N/A	0	0	0	0	0	0	\$750	0
Private Seasonal	990	3.200	ME	7/13/2000		ECP Not	Dip Rolling	Medium	-	-	0	0	10	0	0	\$0	0
40.1961	527	0.000	McCarl	Pehl	97-376	Del Rancho	Humboldt	THP Mitigator	II	0	0	0	2	0	0	\$375	0
Private Seasonal	527	0.000	Unk	12/25/2002		ECP Not	Culv. Install	THP Low	-	18"	0	0	1	1	0	\$0	0

/A/E

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Shedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
40.1961	2939	0.000	PeH	PehI	Maintena	Maintenance	Surface Drainage	Maintenance	N/A	0	0	0	38	0	0	\$4,513	1,540
Upgraded	2939	3.150	R&S	7/25/2006		ECP Not	Tip and Dip	Medium	-	-	0	0	41	0	0	\$3	1,540
40.1961	5793	0.000	PeH	PehI	Maintena	Maintenance	Surface Drainage	Maintenance	N/A	0	0	0	15	0	0	\$3,750	0
Private Seasonal	5793	1.050	R&S	6/13/2010		ECP Not	Other	Medium	-	-	0	0	18	2	0	\$0	0
Removed windthrows. Reworked dips.																	
40.1961	94	0.010	Haschak Bennett	11-087	Kestrel		Temp. Crossing	THP App. Rd.	I		0	0	0	0	0	\$0	0
Private Seasonal	5533	0.000	Unk	8/26/2015		ECP Not	Temp. Crossing	Medium	-	IRRBr	0	0	0	0	0	\$0	0
See 1600 agreement for any additional conditions.																	
40.1961	4521	0.030	Haschak	PehI	08-090	Saker	No Problem	Maintenance	III		0	0	0	0	0	\$0	0
Private Seasonal	4521	0.000	Unk	10/30/2010		ECP Not	Dip Rolling	Low	-	-	0	0	0	0	0	\$0	0
Maintain existing rolling dip. No other action needed.																	
40.1961	526	0.050	Kelly	97-376	Del Rancho		Humboldt	THP Recon.	III		0	0	0	4	0	\$693	0
Private Seasonal	526	0.000	ME	7/31/1999		ECP Not	Culv. Instal	Medium	-	24"	0	0	3	1	0	\$0	0
40.1961	746	0.190	McCanl	PeH	01-392		Box of Rain	THP App. Rd.	N/A		0	0	0	2	0	\$330	2
Private Seasonal	746	0.000	R&S	6/12/2006		ECP Not	Dip Rolling	Medium	-	-	0	0	2	0	0	\$165	2
enhance dip																	
40.1961	95	0.200	Woolsey		99-242	Westside Flat	No Problem	THP App. Rd.	II		0	0	0	0	0	\$0	0
Private Seasonal	95	0.000	Unk	7/1/2000		ECP Not	No Action	Medium	30"	-	0	0	0	0	0	\$0	0
40.1961	5854	0.200	Chidlaw	Chidlaw	Maintena	Maintenance	Other	Maintenance	N/A		0	0	0	0	0	\$592	0
Private Seasonal	5854	1.400		8/1/2012		ECP Not	Herbicides	Medium	-	-	0	0	0	0	0	\$0	0
40.1961	745	0.250	McCanl	PeH	01-392		Box of Rain	THP App. Rd.	III		0	0	0	5	0	\$1,761	65
Private Seasonal	745	0.000	R&S	6/12/2006		ECP Not	Culv. Replace	High	18	24"	40	0	5	4	163	\$27	65
18" cmp on a class 3 stream low gradient and is shotgunned with 4 yds. of past erosion. replace cmp with 24" at grade, ad critical dip right hinge line																	
40.1961	525	0.560	William	Kelly	97-376	Del Rancho	Humboldt	THP Recon.	III		0	0	0	2	0	\$308	0
Private Seasonal	525	0.000	ME	7/31/1999		ECP Not	Culv. Instal	Medium	-	18"	0	0	1	1	0	\$0	0
40.1961	98	0.600	Woolsey		99-242	Westside Flat	No Problem	THP App. Rd.	II		0	0	0	0	0	\$0	0
Private Seasonal	98	0.000	Unk	7/1/2000		ECP Not	No Action	Medium	30"	-	0	0	0	0	0	\$0	0
40.1961	4522	0.600	Haschak	PehI	08-090	Saker	Culv.	Maintenance	II		0	0	0	0	0	\$764	18
Private Seasonal	4522	0.000	Unk	10/30/2010		ECP Not	Culv. Instal	Medium	18"	30"	30	0	0	0	0	\$44	18
culvert resting through. Replace with 30" culvert at grade																	
40.1961	98	0.750	Haschak		16-047	German South	Culv.	THP App. Rd.	II		0	0	0	0	0	\$0	0
Private Seasonal	6498	0.000	Unk	7/1/2000		ECP Not	Other	Medium	24"	-	0	0	0	0	0	\$0	0
add rock armor below outlet, rock shall be 12" in diameter or larger																	
40.1961	101	1.000	Woolsey		99-242	Westside Flat	No Problem	THP App. Rd.	II		0	0	0	0	0	\$0	0
Private Seasonal	101	0.000	Unk	7/1/2000		ECP Not	No Action	Medium	24"	-	0	0	0	0	0	\$0	0
40.1961	2024	2.570	PeH	PehI	Maintena	Maintenance	Surface Drainage	Maintenance	N/A		0	0	0	27	0	\$5,853	235
Upgraded	2024	3.150	Unk	5/24/2002		ECP Not	Dip Rolling	Medium	-	-	0	0	26	0	0	\$25	235
Berns torn off and road outslped and dipped.																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
40.196104	2255	2.900	Haschak Bennett	11-087	Kestrel	Surface Drainage	THP Non-Road	III		0	0	0	0	0	0	\$0	0
Private Seasonal	2255	0.000	Unk	8/26/2015		ECP Not	Excavate Soil	Medium	-	-	0	0	0	0	0	\$0	0
Outsloped road has downcut a little over last five years from a cIII. The cIII is now going in a new direction toward #39 so flow is minimal to this location. Do not operate in area above the road as there are rare plants directly above road.																	
40.196104	2255	3.000	Haschak Bennett	11-087	Kestrel	Culv.-HDP	Storm Proofing	II		0	0	0	26	6	0	\$8,024	600
Private Seasonal	2255	0.000	Unk	8/26/2015		GWDR 1-11-087 SO	Culv. Replace	Medium	36"	48"	40	0	14	13	0	\$13	600
Install new pipe at grade if possible or with downspout if not.																	
40.196104	2940	0.000	Pehl	Pehl	Maintena	Maintenance	Surface Drainage	Maintenance	N/A		0	0	0	0	0	\$0	98
Upgraded	2940	0.200	R&S	7/25/2006		ECP Not	Tip and Dip	Medium	-	-	0	0	0	0	0	\$0	98
40.196104	5855	0.000	Chidlaw	Chidlaw	Maintena	Maintenance	Other	Maintenance	N/A		0	0	0	0	0	\$59	0
Private Seasonal	5855	0.200		8/1/2012		ECP Not	Herbicides	Medium	-	-	0	0	0	0	0	\$0	0
40.196104	1866	0.200	Pehl	Pehl	Maintena	Maintenance	Surface Drainage	Maintenance	N/A		0	0	0	20	0	\$3,800	269
Upgraded	2025	0.750	Mc	5/28/2002		ECP Not	Dip Rolling	Medium	-	-	0	0	20	0	0	\$14	269
Pre-decommissioning, see site 1866.																	
40.196104	1866	0.200	Haschak Aldan	01-392	Box of Rain	Surface Drainage	THP App. Rd	N/A		0	0	0	10	0	0	\$1,000	269
Abandoned Fixed	1866	0.750	GE	10/13/2002		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$4	269
The segment of this road that connects the midslope road to the lower road is being abandoned after this THP is finished. To see what actions must be taken refer to the map in the Box of Rain THP that shows the work to be done in more detail than can be described here.																	
40.196104	105	0.200	Haschak Bennett	11-087	Kestrel	Culv.	THP App. Rd.	II		0	0	0	10	13	0	\$7,545	400
Private Seasonal	4501	0.000	Unk	8/26/2015		GWDR 1-11-087 SO	Culv. Replace	Medium	24"	36"	80	0	14	4	0	\$27	280
An existing culvert is in danger of failing. A new culvert will be installed at a different location. The old culvert is 100 feet north of the watercourse and is feed by an inside ditch. It can be left in since it will no longer be flowing water. Align the new culvert with the watercourse where #23 is painted and take straight across road. The outlet should point towards the large root wad that is over the side of the road and not to the apparent channel that is just south of the root wad. Just below the root wad is what appears to be the old channel for this watercourse and the location that will cause the least long term problems.																	
40.196104	2955	0.740	Pehl	Pehl	Maintena	Maintenance	Surface Drainage	Maintenance	N/A		0	0	0	7	0	\$1,575	54
Upgraded	2955	0.850	Unk	6/21/2006		ECP Not	Tip and Dip	Medium	-	-	0	0	7	0	0	\$29	54
40.196104	753	0.350	McCani	SB-271-0	SB-271-00	Culv.	Storm Proofing	II		0	0	0	9	0	0	\$4,900	116
Private Seasonal	753	0.000	Unk	6/13/2006		ECP Not	Culv. Replace	High	18"	36"	50	0	10	4	350	\$41	116
a 18" cm-p on a class 2 stream channel above inlet flat and covered with willows has to determine top below outlet channel is filled with landing slash and fill from both approaches. Excavate crossing top to top, lay sides back 2 to 1 above and below crossing install 36" cm-p at grade, add DS if needed. Install waterbar to left at landing to direct spring flow to inlet of crossing may need to move top up after excavation to form a better channel																	
40.196104	753	0.850	Haschak Pehl	01-392	Box of Rain	Culv.	THP App. Rd.	II		0	0	0	3	0	0	\$2,820	116
Private Seasonal	1791	0.000	R&S	6/13/2006		ECP Not	Culv. Replace	High	18"	36"	60	0	0	4	350	\$24	116
a 18" cm-p on a class 2 stream channel above inlet flat and covered with willows, channel is filled with landing slash and fill from both approaches. install 36" cm-p at grade, add downspout if needed. Install waterbar to left at landing to direct spring flow to inlet of crossing																	
40.196104	5816	1.120	Haschak Bennett	12-087	Alder	Culv.	THP App. Rd.	III		0	0	0	0	0	0	\$0	0
Private Seasonal	5816	0.000	Unk	11/14/2015		ECP Not	Culv. Maintenance	Medium	-	-	0	0	0	0	0	\$0	0
Shotgun culvert (24") needs downspout or energy dissipator.																	
40.196104	5816	1.120	Haschak Bennett	16-047	Gerrard South	Culv.	THP App. Rd.	II		0	0	0	0	0	0	\$0	0
Private Seasonal	6496	0.000	Unk	11/14/2015		ECP Not	Culv. Maintenance	Medium	-	-	0	0	0	0	0	\$0	0
Shotgun culvert has been fixed and rock was added as part of alder thp but regulators decided they wanted more 12-24" rock added.																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
40.196104	5817	1.130	Haschak Bennett	12-037	Alder		Culv.	THP App. Rd.	Spr.		0	0	0	0	0	\$0	0
Private Seasonal	5817	0.000	Unk	11/24/2015		ECP Not	Culv. Maintenance	Medium	-	-	0	0	0	0	0	\$0	0
Shotgun culvert (24") needs downspout or energy dissipator.																	
40.196104	1863	2.700	Haschak Pehl	01-392	Box of Rain		Culv.	THP App. Rd.	I		0	0	0	0	0	\$2,184	0
Private Seasonal	1863	0.000	R&S	6/13/2006		ECP Not	Culv. Replace	Medium	24"	48"	40	0	0	0	0	\$0	0
Replace culvert. Rock armor culvert outlet.																	
40.196104	554	0.000	William Kelly	Maintena	Maintenance		Surface Drainage	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	554	0.010	S.J.	10/06/1999		ECP Not	Dip Rolling	Medium	-	-	0	0	5	0	0	\$0	0
40.196104	2197	0.170	Haschak Bennett	11-087	Kestrel		Surface Drainage	Storm Proofing	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2197	0.000	Unk	8/26/2015		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
enhance rolling dip																	
40.196104	2196	0.300	Haschak Bennett	11-087	Kestrel		Surface Drainage	Storm Proofing	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2196	0.300	Unk	8/26/2015		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
enhance rolling dip																	
40.196104	108	0.500	Woolsey	99-242	Westside Flat		No Problem	THP App. Rd.	III		0	0	0	0	0	\$0	0
Private Seasonal	108	0.000	Unk	7/1/2000		ECP Not	No Action	Medium	30"	-	0	0	0	0	0	\$0	0
40.196104	2270	0.700	Haschak Bennett	11-087	Kestrel		Other	THP Non-Road	II		0	0	0	0	0	\$0	0
Private Seasonal	2270	0.000	R&S	2/3/2015		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
Landing near class II. Some alders may be removed if necessary. Seed and mulch at close.																	
40.196104	187	0.720	Haschak Bennett	11-087	Kestrel		Temp. Crossing	Storm Proofing	II		0	0	0	0	0	\$0	0
Private Seasonal	2154	0.000	Unk	8/25/2015		ECP Not	Remove Crossing	Medium	-	-	0	0	0	0	0	\$0	0
If wet install temporary 4" or larger pipe. Sandbags filled with clean gravel shall be used to construct a coffer dam. The pipe within the crossing prism shall be covered with a layer of straw and then dirt to create a running surface. If no water is present then place dirt on top of a straw layer to create a running surface without a culvert. If no water is present then no coffer dam or sandbags will be required. Remove all crossing material and spread on road prior to winter period. Seed and mulch approaches at close of operations or before winter period. In area between point 19 and 20 there are opportunities to breach berm in several location or put in rolling dips at operators discretion.																	
40.196104	2193	0.780	Haschak Bennett	11-087	Kestrel		Surface Drainage	Storm Proofing	Spr.		0	0	0	0	0	\$0	0
Private Seasonal	2193	0.000	Unk	8/26/2015		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
Create rolling dip and inside ditch to drain springy area or install 4" drain pipe.																	
40.196104	185	0.900	Haschak Bennett	11-087	Kestrel		Temp. Crossing	Storm Proofing	II		0	0	0	0	0	\$0	0
Private Seasonal	2192	0.000	Unk	8/25/2015		ECP Not	Remove Crossing	Medium	-	-	0	0	0	0	0	\$0	0
If wet install temporary 4" or larger pipe. Sandbags filled with clean gravel shall be used to construct a coffer dam. The pipe within the crossing prism shall be covered with a layer of straw and then dirt to create a running surface. If no water is present then place dirt on top of a straw layer to create a running surface without a culvert. If no water is present then no coffer dam or sandbags will be required. Remove all crossing material and spread on road prior to winter period. Seed and mulch approaches at close of operations or before winter period.																	
40.196104	1389	0.000	William Alden	Maintena	Maintenance		Surface Drainage	THP App. Rd.	N/A		0	0	0	0	0	\$0	117
Upgraded	1389	0.240	ME	7/15/2000		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	117
40.196104	1690	0.000	Pehl	Pehl	Maintena	Maintenance	Surface Drainage	Maintenance	N/A		0	0	0	0	0	\$232	122
Upgraded	1690	0.250	Su	7/1/2001		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$2	122
40.196104	2964	0.000	Pehl	Pehl	Maintena	Maintenance	Surface Drainage	Maintenance	N/A		0	0	0	9	0	\$1,000	122
Upgraded	2964	0.250	R&S	6/22/2005		ECP Not	Tip and Dip	Medium	-	-	0	0	9	1	0	\$8	122

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Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Lev. D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Shedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
40.19610421	5792	0.050	Pehl	Pehl	Maintena	Maintenance	Surface Drainage	Maintenance	N/A	0	0	0	7	0	0	\$1,855	0
Private Seasonal	5792	0.000	R&S	6/11/2012		ECP Not	Rock Surface	Medium	-	-	0	0	9	0	0	\$0	0
Rocked a dip that was down cutting road surface.																	
40.19610421	751	0.090	Haschak	Pehl	01-392	Box of Rain	Other	THP App. Rd.	III	0	0	0	1	1	0	\$370	10
Private Seasonal	1759	0.000	R&S	6/12/2006		ECP Not	Dip Critical	Medium	-	-	0	0	0	0	0	\$37	10
enhance rolling dip																	
40.19610421	751	0.090	McCanl		Maintena	Maintenance	Other	THP App. Rd.	II	0	0	0	1	1	0	\$415	10
Private Seasonal	751	0.000	Unk	6/12/2006		ECP Not	Dip Critical	Medium	-	-	0	0	2	0	0	\$42	10
enhance rolling dip and rock dip																	
40.19610421	1800	0.200	Haschak	Pehl	01-392	Box of Rain	Surface Drainage	THP App. Rd.	Spr.	0	0	0	0	0	0	\$0	0
Private Seasonal	1800	0.000	R&S	6/13/2006		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
rocked rolling dip on spring crossing road (may be mislabeled as # 750)																	
40.19610421	1591	0.350	Pehl	Pehl	Maintena	Maintenance	Surface Drainage	Maintenance	N/A	0	0	0	0	0	0	\$480	249
Upgraded	1591	0.860	Su	7/11/2001		ECP Not	Dip Rolling	Medium	-	-	0	0	6	0	0	\$2	249
PG&E repairs.																	
40.1961042131	1692	0.000	Pehl	Pehl	Maintena	Maintenance	Surface Drainage	Maintenance	N/A	0	0	0	0	0	0	\$192	100
Upgraded	1692	0.204	Su	7/11/2001		ECP Not	Dip Rolling	Medium	-	-	0	0	2	0	0	\$2	100
PG&E repairs.																	
40.19610436	558	0.000	William	Kelly	Maintena	Maintenance	Surface Drainage	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	558	1.000	Su	10/1/1999		ECP Not	Dip Rolling	Medium	-	-	0	0	5	0	0	\$0	0
40.19610436	558	0.000	William	Alden	Maintena	Maintenance	Surface Drainage	THP App. Rd.	N/A	0	0	0	0	0	0	\$375	0
Private Seasonal	989	1.000	ME	7/15/2003		ECP Not	Dip Rolling	Medium	-	-	0	0	5	0	0	\$3	0
40.19610436	2938	0.000	Pehl	Pehl	Maintena	Maintenance	Surface Drainage	Maintenance	N/A	0	0	0	21	0	0	\$2,358	510
Upgraded	2938	1.044	R&S	7/25/2006		ECP Not	Tip and Dip	Medium	-	-	1	0	27	0	0	\$5	510
40.19610436	754	0.030	Haschak	Pehl	01-392	Box of Rain	Dip Critical	THP App. Rd.	III	0	0	0	0	1	0	\$155	3
Private Seasonal	1770	0.000	R&S	6/12/2006		ECP Not	Rock Surface	Medium	-	-	0	0	1	0	0	\$55	3
a class 3 flow across road in rolling dip a small gully has developed at outboard fill treat, rock rolling and armour fill face																	
40.19610436	754	0.030	McCanl		Maintena	Maintenance	Dip Critical	THP App. Rd.	III	0	0	0	0	1	0	\$190	3
Private Seasonal	754	0.000	Unk	6/12/2006		ECP Not	Rock Surface	Medium	-	-	0	0	1	0	0	\$53	3
a class 3 flow across road in rolling dip a small gully has developed at OBF treat, rock rolling and armour fill face																	
40.19610436	1765	0.050	Haschak	Pehl	01-392	Box of Rain	Spring	THP App. Rd.	Spr.	0	0	0	3	0	0	\$90	0
Private Seasonal	1765	0.000	R&S	6/12/2006		ECP Not	Dip Rolling	Medium	-	-	0	0	1	0	0	\$0	0
install spring drain or rocked rolling dip																	
40.19610436	5786	0.350	Pehl	Pehl	Maintena	Maintenance	No Problem	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5786	0.000	Unk	6/12/2012		ECP Not	Rock Pit	No Action	-	-	0	0	0	0	0	\$0	0
Rock Pit. Cobbles 6-12" from road cut bank.																	
40.19610436	755	0.100	Haschak	Pehl	01-392	Box of Rain	Dip Critical	THP App. Rd.	II	0	0	0	0	1	0	\$165	2
Private Seasonal	1771	0.000	R&S	6/12/2006		ECP Not	Rock Surface	Medium	-	-	0	0	1	0	0	\$83	2
rolling dip carrying class3 flow across road minor outboard fill erosion. Rock rolling dip																	

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Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds	
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds	
40.19610436	755	0.173	McCarl		Maintena	Maintenance	Dip Critical	THP App. Rd.	III		0	0	0	0	1	0	\$190	2
Private Seasonal	755	0.000	Unk	6/12/2006		ECP Not	Rock Surface	Medium	-	-	0	0	1	0	0	\$95	2	
rolling dip carrying class3 flow across road minor OBF erosion. Rock rolling dip																		
40.19610436	756	0.300	Haschak Pehl	01-392		Box of Rain	Other	THP App. Rd.	III		0	0	0	1	3	0	\$495	0
Private Seasonal	1788	0.000	Unk	5/12/2006		ECP Not	Other	Current	24"	-	0	0	0	2	0	\$0	0	
extend downspout another 10 feet add rock dissipator if necessary. Rock surface of road with clean rock between the adjacent water breaks that exist on either side of the existing culvert to a minimum depth of 8".																		
40.19610436	759	0.450	McCarl		Maintena	Maintenance	Dip Critical	THP App. Rd.	III		0	0	0	0	1	0	\$190	2
Private Seasonal	759	0.000	Unk	6/12/2006		ECP Not	Rock Surface	Medium	-	-	0	0	1	0	0	\$95	2	
a rolling dip located in class 3 spring flow has eroded approx. 4 at OBF treat. Is to enhance rolling dip and rock dip and outlet.																		
40.19610436	759	0.450	Haschak Pehl	01-392		Box of Rain	Dip Critical	THP App. Rd.	III		0	0	0	1	0	\$165	2	
Private Seasonal	1772	0.000	R&S	5/12/2006		ECP Not	Rock Surface	Medium	-	-	0	0	1	0	0	\$83	2	
a rolling dip located in class 3 spring flow has eroded approx. 4 at outboard fill treat. enhance rolling dip and rock dip and outlet.																		
40.19610436	760	0.540	Haschak Pehl	01-392		Box of Rain	Other	THP App. Rd.	II		0	0	0	0	0	\$0	178	
Private Seasonal	1790	0.000	R&S	6/12/2006		ECP Not	Other	Medium	24'	-	0	0	0	2	0	\$0	178	
install 20' downspout (24") add an energy dissipator below the downspout of the existing culvert. Rock shall be of sufficient size so as to not be washed away by high flows and shall cover sufficient area to stabilize the channel																		
40.19610436	1764	0.680	Haschak Pehl	01-392		Box of Rain	Spring	THP App. Rd.	N/A		0	0	0	1	1	0	\$190	0
Private Seasonal	1764	0.000	R&S	6/12/2006		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0	
install rocked rolling dip on springy spot. Remove perched fill that is below the road at this point.																		
40.19610436	761	0.710	McCarl		Storm Pro	Storm Proofing	Culv.	Maintenance	III		0	0	0	0	0	\$200	0	
Private Seasonal	761	0.000	Unk	5/30/2006		ECP Not	Culv. Maintenance	Medium	-	-	0	0	1	2	0	\$0	0	
a 18" cmp on a class 3 cmp is low gradient but functioning well. treat: add 20' of D.S and inslope road over crossing.																		
40.19610436	761	0.710	Haschak Pehl	01-392		Box of Rain	Culv.	Maintenance	III		0	0	0	0	0	\$90	0	
Private Seasonal	1801	0.000	R&S	5/30/2006		ECP Not	Culv. Maintenance	Medium	-	-	0	0	1	2	0	\$0	0	
a 18" cmp on a class 3 cmp is low gradient but functioning well. treat: add 20' of downspout and inslope road over crossing. Clean inside ditch to the north so that it drains to culvert inlet																		
40.19610436	762	0.870	Haschak Pehl	01-392		Box of Rain	Culv.	Storm Proofing	II		0	0	0	22	28	0	\$6,275	489
Private Seasonal	1802	0.000	AL	5/30/2006		ECP Not	Culv. Replace	High	18" 36"	60		0	22	4	887	\$13	489	
a 18" cmp on a class 2 . Cmp is shotgunned and is not centered to stream , it is aimed at right bank below outlet treat: excavate top to bottom install 36" cmp at grade 1																		
40.19610436	762	0.870	McCarl	SB-271-0	S3-271-60		Culv.	Storm Proofing	II		0	0	0	22	28	0	\$10,245	489
Private Seasonal	762	0.000	Unk	5/30/2006		ECP Not	Culv. Replace	High	18" 36"	60		0	22	4	887	\$21	489	
a 18" cmp on a class 2 . Cmp is shotgunned and is not centered to stream , it is aimed at right bank below outlet: treat: excavate top to bot install 36" cmp at grade lay sides back 2 to 1 below outlet remove sediment pond above inlet endhaul spoil to right 1500' to landing																		
40.19610436	763	0.940	McCarl		Maintena	Maintenance	Dip Critical	THP App. Rd.	II		0	0	0	1	0	0	\$325	15
Private Seasonal	763	0.000	Unk	5/30/2006		ECP Not	Rock Surface	Medium	-	-	0	0	2	0	40	\$22	15	
a rolling dip on a class 3 . Outlet is eroding through fill treat: excavate approx. 40 yds of fill , rock rolling dip and outlet.																		
40.19610436	765	0.940	Haschak Pehl	01-392		Box of Rain	Dip Critical	THP App. Rd.	III		0	0	0	2	0	\$330	15	
Private Seasonal	1773	0.000	R&S	5/30/2006		ECP Not	Rock Surface	Medium	-	-	0	0	2	0	0	\$22	15	
a rolling dip on a class 3 . rock rolling dip and outlet.																		

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Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
40.19610467	5790	0.240	Pehl	Pehl	Maintena	Maintenance	Surface Drainage	Maintenance	N/A	0	0	0	8	8	0	\$2,495	0
Private Seasonal	5790	0.000	R&S	6/8/2012		ECP Not	Other	Medium	-	-	0	0	8	0	0	\$0	0
Raised road grade to cap over persistent muddy rutted stretch of road.																	
40.19610467	5791	0.250	Pehl	Pehl	Maintena	Maintenance	Culv.	Maintenance	II	0	0	0	8	7	0	\$3,037	0
Private Seasonal	5791	0.000	R&S	6/11/2012		ECP Not	Culv. Install	Medium	-	18"	40	0	8	2	0	\$0	0
Replaced smashed undersized drain. Raised road grade.																	
40.196151	4516	0.130	Haschak	Pehl	08-090	Saker	Temp. Crossing	THP App. Rd.	III	0	0	0	0	0	0	\$0	0
Private Seasonal	4516	0.000	Unk	10/30/2010		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Dip out at close of operations. Install temporary pipe large enough to handle flow if wet at time of operations.																	
40.196151	4517	0.190	Haschak	Pehl	08-090	Saker	Surface Drainage	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4517	0.000	Unk	10/30/2010		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
Water is pooling up along outside edge of landing during winter. If this area is still wet after spring time then it is because of springs at upper edge of landing so spring drain pipes will be needed. (Road amended above swamp, it never dries out.)																	
40.196151	4576	0.220	Haschak	Pehl	08-090	Saker	Surface Drainage	THP App. Rd.	Spr.	0	0	0	0	0	0	\$0	0
Private Seasonal	4576	0.000	Unk	10/30/2010		ECP Not	Culv. Ditch Relief	Medium	-	-	0	0	0	0	0	\$0	0
Install spring drain 4" or larger with rolling dip in order to drain springy inside ditch.																	
40.196151	4529	0.250	Haschak	Pehl	08-090	Saker	Temp. Crossing	THP App. Rd.	III	0	0	0	0	0	0	\$0	0
Private Seasonal	4529	0.000	Unk	10/30/2010		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
minor class III crossing and spring drain. Create new rolling dip/ford 40 feet to the north of the one that is now catching the ditch runoff and spring water. Leave existing dip in place but reduce its size, so its driveable, and inslope road slightly to get water into inside ditch if necessary.																	
40.196151	4577	0.280	Haschak	Pehl	08-090	Saker	Temp. Crossing	THP App. Rd.	III	0	0	0	0	0	0	\$0	0
Private Seasonal	4577	0.000	Unk	10/30/2010		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Put in two rolling dips. One at the flag and one 40 feet north of the flag in order drain minor class III watercourse and springy inside ditch. If springy area is still wet at time of operations, install temporary pipe.																	
40.196151	4638	0.330	Haschak	Pehl	08-090	Saker	Other	THP App. Rd.	Pond	0	0	0	0	0	0	\$0	0
Private Seasonal	4638	0.000	Unk	10/30/2010		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
Short segment of road enters WLPZ of pond. If road is used for skidding, seed and mulch to item 18 standards any area of bare soil 100 square feet or larger outside of the running surface of the road.																	
40.1969	5476	0.100	Alden	Pehl	Maintena	Maintenance	No Problem	Maintenance	Hole	0	0	0	0	0	0	\$0	0
Water Rights	5476	0.000	Unk	6/1/2005		ECP Not	Water Hole	No Action	-	-	0	0	0	0	0	\$0	0
S018663																	
Buck 1 Hole-5476 S018663 (947450) Dug water hole near Buckeye. The water is used for logging dust abatement. There is no electricity at the site. Usage is infrequent. Estimates are base on water truck loads per day converted into gallons.																	
40.1969	5476	0.100	Alden	Alden	Maintena	Maintenance	No Problem	Maintenance	Hole	0	0	0	8	0	0	\$2,280	0
Water Rights	6500	0.000	R&S	9/19/2016		ECP Not	Water Hole	No Action	-	-	0	0	8	0	0	\$0	0
S018663																	
Buck 1 Hole-5476 S018663 (947450) Dug water hole near Buckeye. The water is used for logging dust abatement. There is no electricity at the site. Usage is infrequent. Estimates are base on water truck loads per day converted into gallons.																	
40.1969	1826	0.430	Alden	Alden	Maintena	Maintenance	No Problem	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	1826	0.000	Unk	10/15/2001		ECP Not	Rock Pit	Low	-	-	0	0	0	0	0	\$0	0
Rip rap pit																	

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Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds	
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds	
40.1969	1826	0.430	Alden	Alden	271	LNF	ENF P0130405A	No Problem	Maintenance	N/A	0	0	0	5	0	0	\$1,275	0
Private Seasonal	2172	0.000	Urk	6/2/2003			ECP Not	Rock Pit	Low	-	-	0	0	7	0	0	\$0	0
Work in pit for LNF																		
40.1969	5475	0.600	Alden	Pehl	Maintena	Maintenance	Maintenance	No Problem	Maintenance	Hole	0	0	0	0	0	0	\$0	0
Water Rights	5475	0.000	Urk	6/18/1995			ECP Not	Water Hole	No Action	-	-	0	0	0	0	0	\$0	0
S018665																		
Buck 2 Hole-5475 S018666 (349404) Dug water hole near Buckeye. The water is used for logging dust abatement. There is no electricity at the site. Usage is infrequent. Estimates are base on water truck loads per day converted into gallons.																		
40.1969	5475	0.600	Alden	Alden	Maintena	Maintenance	Maintenance	No Problem	Maintenance	Hole	0	0	0	9	0	0	\$2,375	0
Unclassified	6499	0.000	R&S	9/29/2016			ECP Not	Water Hole	No Action	-	-	0	0	7	0	0	\$0	0
S018666																		
Expanded water hole																		
40.1969	1582	0.750	Pehl	Pehl	Maintena	Maintenance	Maintenance	Other	Storm Proofing	N/A	0	0	0	0	0	0	\$2,960	758
Upgraded	1582	2.300	St	7/10/2001			ECP Not	Dip Rolling	Medium	-	-	0	0	37	0	0	\$4	758
Dip and outslope the Stanley Ridge road.																		
40.1969	2857	0.850	Hasehak	Pehl	96-009	Ivy	Ivy	Surface Drainage	Maintenance	N/A	0	0	0	0	0	4	\$1,180	0
Private Seasonal	2857	1.800	Urk	9/26/2007			ECP Not	Dip Rolling	Medium	-	-	0	0	8	0	0	\$0	0
This segment of road (about a mile of road) has a number of rolling dips that are not working or are working poorly. Rather than numbering each one, all rolling dips in this segment of road that aren't functioning properly are flagged and "Enhance Rolling Dip" is written on the flagging. The dips need to be deepened and the humps raised with the resulting material. In this segment, where the road is outsloped, berms shall be removed and outsloping enhanced when road is graded.																		
40.196902	42	0.080	Lewicki	Pehl	98-336	Stanley_98	Stanley_98	Car Bank Failure	THP Mitigation	N/A	0	0	0	0	0	0	\$75	0
Private Seasonal	42	0.000	RB	11/27/2000			ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
Minor slough; incorporate spoils																		
40.196902	43	0.380	Lewicki	Pehl	98-336	Stanley_98	Stanley_98	Temp. Crossing	THP Mitigation	III	0	0	0	0	0	0	\$75	0
Private Seasonal	43	0.000	RB	11/27/2000			ECP Not	Other	Medium	-	-	0	0	1	0	0	\$0	0
Temp culvert, cull logs, spittler xing, etc.																		
40.196923	1035	0.000	Pehl	Pehl	98-336	Stanley_98	Stanley_98	Other	THP Clean Up	N/A	0	0	0	1	0	0	\$170	0
Private Seasonal	1035	0.000	RB	10/4/2000			ECP Not	Other	Medium	-	-	0	0	1	0	0	\$0	0
Road surface not swept clean of logging debris. Landing slash and culls piled against residual trees. Remove slash from road surface. Move slash piles to landing where they can be burned.																		
40.196928	5319	0.000	Alden	Alden	Maintena	Maintenance	Maintenance	No Problem	Assessment	N/A	0	0	0	0	0	0	\$350	489
Upgraded	5319	1.000	Urk	8/8/2007			ECP Not	No Action	No Action	-	-	0	0	0	7	0	\$1	489
This road was upgraded and waterbarred during the Ivy THP. It is in good shape.																		
40.196928	2552	0.050	Hasehak	Pehl	06-009	Ivy	Ivy	Fill - Road	Maintenance	III	0	0	0	10	12	0	\$3,490	200
Private Seasonal	2552	0.000	R&S	6/27/2007			1B1350930N	Armored Ford	Medium	-	-	0	0	15	0	0	\$70	50
Road fill failure near head of class III. Apparently a spring drain or class III drain pipe plugged and water saturated the road causing the outside edge of the road to fail (75x25x6). Install rocked dip and armor outside edge of crossing. Rock will be pit run rip rap with an average size of approximately 18".																		
When reconstructing outside edge of road at this point compact in one foot lifts. Avoid sidecasting material when widening road.																		
40.196928	32	0.070	Lewicki	Pehl	98-336	Stanley_98	Stanley_98	Surface Drainage	THP Mitigation	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	32	0.000	Urk	7/1/2000			ECP Not	Rock Surface	Medium	-	-	0	0	0	0	0	\$0	0
Spring																		

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
40.196928	33	0.100	Lewicki	Pehl	98-336	Stanley_98	Fill - Road	THP Mitigation	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	33	0.000	Unk	7/1/2000		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Fill cracking/no mitigation																	
40.196928	35	0.150	Lewicki	Pehl	98-336	Stanley_98	Surface Drainage	THP Mitigation	III	0	0	0	0	0	0	\$32	0
Private Seasonal	35	0.000	RB	10/13/2000		ECP Not	Rock Surface	Medium	-	-	0	0	0	0	0	\$0	0
Spring																	
40.196928	2553	0.150	Haschak	Pehl	06-009	Ivy	Temp. Crossing	Maintenance	III	0	0	0	0	0	0	\$0	0
Private Seasonal	2553	0.000	Unk	9/25/2007		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Watch this crossing for drainage issues. May not require any work.																	
40.196928	2554	0.160	Haschak	Pehl	06-009	Ivy	Temp. Crossing	Maintenance	Spr.	0	0	0	0	0	0	\$0	0
Private Seasonal	2554	0.000	Unk	9/25/2007		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Springy spot crosses road. Install spring drain with rolling dip if wet at time of operations. Leave dip at close of operations.																	
40.196928	36	0.200	Lewicki	Pehl	98-336	Stanley_98	Fill - Road	THP Recon.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	36	0.000	Unk	7/1/2000		ECP Not	Keyway Con.	Medium	-	-	0	0	0	0	0	\$0	0
Fill failure																	
40.196928	37	0.230	Lewicki	Pehl	98-336	Stanley_98	No Problem	THP Mitigation	III	0	0	0	0	0	0	\$0	0
Private Seasonal	37	0.000	Unk	7/1/2000		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Existing crossing																	
40.196928	2555	0.230	Haschak	Pehl	06-009	Ivy	Dip Rolling	Maintenance	III	0	0	0	0	0	0	\$0	0
Private Seasonal	2555	0.000	Unk	9/25/2007		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Existing dip with downspot. Maintain existing dip and outlet as is.																	
40.196928	2556	0.270	Haschak	Pehl	06-009	Ivy	Temp. Crossing	Maintenance	Spr.	0	0	0	0	0	0	\$0	0
Private Seasonal	2556	0.000	Unk	9/25/2007		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Springy spot crosses road. Minor erosion on outside edge of road. Install spring drain and rolling dip.																	
40.196928	38	0.350	Lewicki	Pehl	98-336	Stanley_98	Cut Bank Failure	THP Mitigation	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	38	0.000	JL	7/1/2000		ECP Not	Excavate Soil	Medium	-	-	0	0	0	0	0	\$0	0
Cut bank sloughs and spring																	
40.196928	2557	0.400	Haschak	Pehl	06-009	Ivy	Temp. Crossing	Maintenance	Spr.	0	0	0	0	0	0	\$0	0
Private Seasonal	2557	0.000	Unk	9/25/2007		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Springy spot crosses road. Install spring drain with rolling dip if wet at time of operations. Leave dip at close of operations.																	
40.196928	2558	0.420	Haschak	Pehl	06-009	Ivy	Other	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2558	0.000	Unk	9/25/2007		ECP Not	Excavate Soil	Medium	-	-	0	0	0	0	0	\$0	0
Uphill bank slump. Spread on road.																	
40.196928	39	0.430	Lewicki	Pehl	98-336	Stanley_98	Surface Drainage	THP Mitigation	III	0	0	0	1	3	0	\$495	0
Private Seasonal	39	0.000	Unk	10/4/2000		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
Permanent crossing: overside drain or rock lined dry ford																	
40.196928	39	0.490	Haschak	Pehl	06-009	Ivy	Temp. Crossing	Maintenance	III	0	0	0	0	0	0	\$0	0
Private Seasonal	2559	0.000	Unk	9/25/2007		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Maintain existing rocked dip.																	

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Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
40.196928	2560	0.550	Hasehak Pehl	06-009	Ivy		Temp. Crossing	Maintenance	Spr.		0	0	0	0	0	\$0	0
Private Seasonal	2560	0.000	Unk	9/25/2007		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Springy spot crosses road. Install spring drain with rolling dip if wet at time of operations. Leave dip at close of operations.																	
40.196928	40	0.730	Lewicki Pehl	98-336	Stanley_98		Surface Drainage	THP Mitigation	N/A		0	0	0	0	0	\$0	0
Private Seasonal	40	0.000	Unk	7/1/2000		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
40.196928	2561	0.750	Hasehak Pehl	06-009	Ivy		Temp. Crossing	Maintenance	Spr.		0	0	0	0	0	\$0	0
Private Seasonal	2561	0.000	Unk	9/25/2007		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Springy spot crosses road. Install spring drain with rolling dip if wet at time of operations. Leave dip at close of operations.																	
40.196928	2562	0.800	Hasehak Pehl	06-009	Ivy		Temp. Crossing	Maintenance	III		0	0	0	0	0	\$0	0
Private Seasonal	2562	0.000	Unk	9/25/2007		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Maintain rolling dip.																	
40.196928	41	0.930	Lewicki Pehl	98-336	Stanley_98		Surface Drainage	THP Mitigation	III		0	0	0	1	3	\$495	0
Private Seasonal	41	0.000	Unk	10/4/2000		ECP Not	Other	Medium	-	-	0	0	1	0	0	\$0	0
Permanent crossing: rock lined dry ford																	
40.19692806	5330	0.000	Alden Alden	Maintena	Maintenance		No Problem	Assessment	N/A		0	0	0	0	0	\$150	127
Storm Provided	5330	0.260	Unk	6/6/2007		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$1	127
40.19692819	5318	0.000	Alden Alden	Maintena	Maintenance		No Problem	Assessment	N/A		0	0	0	0	0	\$150	73
Upgraded	5318	0.150	Unk	8/8/2007		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$2	73
The first stretch is a thruout that is inside a WLPZ and needs straw protection.																	
40.196938	4879	0.000	Alden Alden	Maintena	Maintenance		No Problem	Assessment	N/A		0	0	0	0	0	\$0	24
Deactivated	4879	0.050	Unk	10/29/2008		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	24
40.196938	2859	0.050	Hasehak Pehl	06-009	Ivy		Temp. Crossing	Maintenance	III		0	0	0	0	0	\$0	0
Private Seasonal	2859	0.000	Unk	9/25/2007		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Dip out crossing at flagged point so that water does not continue to run down road but instead runs across road to the east. (note-Class III to the east is not visible for the first 100 feet.)																	
40.196938	4876	0.050	Alden Alden	Maintena	Maintenance		No Problem	Assessment	N/A		0	0	0	0	0	\$0	0
Not Connected	4876	0.410	Unk	10/29/2008		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
40.19693821	46	0.080	Lewicki Pehl	98-336	Stanley_98		Surface Drainage	THP Mitigation	Spr.		0	0	0	0	0	\$0	0
Private Seasonal	46	0.000	Unk	7/4/2000		ECP Not	Rock Surface	Medium	-	-	0	0	0	0	0	\$0	0
Spring																	
40.19693821	2563	0.100	Lewicki Pehl	98-336	Stanley_98		Surface Drainage	THP Mitigation	Spr.		0	0	0	0	0	\$0	0
Private Seasonal	47	0.000	Unk	7/4/2000		ECP Not	Rock Surface	Medium	-	-	0	0	0	0	0	\$0	0
Spring																	
40.196946	9	0.180	Lewicki Pehl	271 LNF	LNF PC1030405A		No Problem	THP New Con	N/A		0	0	0	0	0	\$0	0
Private Seasonal	9	0.000	Unk	7/1/2000		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Start Construction																	
40.19694644	31	0.180	Lewicki Pehl	98-336	Stanley_98		No Problem	THP New Con	N/A		0	0	0	0	0	\$0	0
Private Seasonal	31	0.000	Unk	7/1/2000		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Start Construction																	

90%

Road #	GIS#	Mile Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds	
Road Class	ID#	End Crew	Done	Rd P#	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	L1	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds	
40.4155	5917	0.450 Haschak Pehl	09-069	Aspen	Other	Maintenance	N/A		0	0	0	15	0	0	\$1,950	0	
Private Seasonal	5917	1.330 R&S	3/11/2013	ECP Not	Other	Medium	-	-	0	0	0	0	0	0	\$0	0	
Removed brush from road with excavator. 15 hours Exc. 2 hours low bed.																	
40.416502	5857	0.000 Chidlaw Chidlaw Maintena		Maintenance	Other	Maintenance	N/A		0	0	0	0	0	0	\$25	0	
Private Seasonal	5857	0.100	8/1/2012	ECP Not	Herbicides	Medium	-	-	0	0	0	0	0	0	\$0	0	
40.416502	363	0.100 Haschak Pehl	99-354	Bertha	Temp. Crossing	THP Recon.	Spr.		0	0	0	0	0	0	\$0	0	
Private Seasonal	363	0.000 WL	7/28/2000	ECP Not	Temp. Crossing	THP High	-	-	0	0	0	0	0	0	\$0	0	
install 6" spring drain pipe if water is present at time of operations. Temporary crossing shall be removed to the standards of 923.3d prior to the winter period.																	
40.416502	364	0.150 Haschak Pehl	99-354	Bertha	Temp. Crossing	THP Recon.	Spr.		0	0	0	0	0	0	\$0	0	
Private Seasonal	364	0.000 WL	7/28/2000	ECP Not	Temp. Crossing	THP High	-	-	0	0	0	0	0	0	\$0	0	
install 6" spring drain pipe if water is present at time of operations. Temporary crossing shall be removed to the standards of 923.3d prior to the winter period.																	
60.3038	185	2.000 Woolsey	99-242	Westside Flat	Dip Critical	THP App. Rd.	N/A		0	0	0	0	0	0	\$0	0	
Private Seasonal	185	0.000 Unk	7/1/2000	ECP Not	No Action	No Action	-	-	0	0	0	0	0	0	\$0	0	
60.3038	186	2.200 Woolsey	99-242	Westside Flat	Dip Critical	THP App. Rd.	N/A		0	0	0	0	0	0	\$0	0	
Private Seasonal	186	0.000 Unk	7/1/2000	ECP Not	No Action	No Action	-	-	0	0	0	0	0	0	\$0	0	
60.3038	187	2.300 Woolsey	99-242	Westside Flat	Dip Critical	THP App. Rd.	N/A		0	0	0	0	0	0	\$0	0	
Private Seasonal	187	0.000 Unk	7/1/2000	ECP Not	No Action	No Action	-	-	0	0	0	0	0	0	\$0	0	
60.3038	188	2.300 Woolsey	99-242	Westside Flat	Dip Critical	THP App. Rd.	N/A		0	0	0	0	0	0	\$0	0	
Private Seasonal	188	0.000 Unk	7/1/2000	ECP Not	No Action	No Action	-	-	0	0	0	0	0	0	\$0	0	
60.3085	5197	0.000 Alden Alden Maintena		Maintenance	No Problem	Storm Proofing	N/A		0	0	0	0	0	0	\$0	151	
Storm Proofed	5197	0.330 Unk	7/1/2013	ECP Not	No Action	Medium	-	-	0	0	0	0	0	0	\$0	151	
This is the access road to Bar 100. It is rocked and the channels are opened after each season.																	
83.7	609	0.050 Kelly Kelly	94-564	Miller Tract	Surface Drainage	THP Clean Up	III		0	0	0	0	0	0	\$1,800	4,385	
Deactivated	609	9.000 RB	11/4/1999	ECP Not	Remove Crossing	Medium	-	Pull	0	0	0	24	0	0	\$0	4,385	
Grand Total All Sites										585							
											320	201	1,221	800	48	\$358,205	27,783
												0	1,216	445	18,455		23,777

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Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds

Road Work

- Road # – This is unique road ID number for each road segment on the property.
- Road Class – This is the type of road.
 - a. Upgraded – Outsloped and dipped
 - b. Storm proofed – Outsloped, dipped and culverts repaired.
 - c. Deactivation – Outsloped, dipped, culverts pulled, and the road will be reused.
 - d. Abandoned Fixed – Outsloped, dipped, culverts removed and the road will not be reused.
 - e. Abandoned Legacy – It will do more damage than good to work on the road. The road will not be reused.
- GIS# - Each existing site in the field (like a culvert) has a unique GIS number, usually the first visit ID#. It appears on the road maps. A new visit to an existing site will reference the GIS#. You can look up the history of visits to a particular site by calling up all the records with the same GIS#.
- ID# - Each "new" road site visit has a unique ID number. It is generated when the record is entered into the database.
- Mile – Each numbered road has mileage ticks from 0 to the end of the road. "Mile" is the distance out the road to the site.
- End – If the site is along a length of road, like tipping and dipping, there is a start point (Mile) and "end" mileage.
- Insp. – The name of the inspector that identified the site and made the prescription is listed here. The inspectors are trained to identify potential sediment sources and make prescriptions in accordance with the Handbook for Forest and Ranch Roads, Weaver and Hagens, 1992. Estimates of sediment production and delivery are made by the inspector.
- Crew – These are the initials of contractor that did the work.
- Planned – Date of site identification.
- Done – Date site work was completed.
- THP# - THP Number
- Rd Pt - This is the working number (THP road point) created by the inspector in the field. It is often found on field flagging.
- THP Name – The THP or program the work is associated with.
- ECP Name – The Erosion Control Plan the site is associated with.
- Problem – The type of problem.
- Solution – The type of solution.
- Repair type – Why was the work done.
- Priority – This reflects the urgency of the problem. A high priority site is one that is likely to deliver a significant amount of sediment during the next 5 year storm event. Medium and low priority sites need upgrading, but are unlikely to deliver significant amounts of sediment in the next several years. High priority sites will be scheduled for completion prior to a low or medium priority site.
- Stream Class – As per the Forest Practice Rules
- Old Dia – The diameter of the old culvert.
- New Dia Ln – The diameter and length of the new culvert if any.
- DRCs – Number of ditch relief culverts needed for the site.
- Rock – Yards of rock needed at the site – rip rap, rock surface, etc.
- Right and Left Ditch – Feet of road to the right and left of the site that is connected and needs treatment.
- Equipment Hours
 - a. Exca. – Excavator
 - b. Cat – Caterpillar tractor
 - c. Labor – Hand labor
 - d. Truck – Dump truck or water truck
 - e. Gra. – Grader
- Yds - This is the total yardage of soil that must be moved at the site.
- Cost – All the equipment costs, other costs and culvert costs. This does not include administration or logistic costs.
- \$/FSD – This is the total cost divided by the yards of soil prevented from delivery (FSD) to the watercourses.
- Total Yds – This is the estimate of yardage that will be mobilized in a failure if the work is not done.
 - FSD (Future Sediment Delivery) – This is the amount of soil that will be prevented from being delivered into the watercourses if the project is completed. It is the relative potential for sediment delivery (RPSD). This yardage only appears if the inspector has been trained to estimate this.

Stream Monitoring Report

Ownerships: All
 Visit Purpose: All
 Planning Watersheds: Big Pepperwood Creek

Station Number	Miles Up Name Stream	Year	Temperature		LWD Bank Full >6 In & >4 Ft or >10 CuFt		Substrate		Streambed (Thalweg)			Riparian Zone			Fish or Redds per Mile			Aquatic Macroinvertebrates			
			Seasonal Maximum	MWAT	CuFt/ 1000'	Pieces/ 1000'	>0.85 mm	D50	Slope	VI	A/D	Canopy % WLPZ	Basal Cr.	Tallest Area Tree	Coho	SH	Redds (1+)	Richness Simpson	Hilsenhoff Russian R index	% Dominant	
218	Ppw3	0.15	1994	15.9	14.4																
218	Ppw3	0.15	1995	16.5	15.0																
218	Ppw3	0.15	1996	16.2	14.3																
218	Ppw3	0.15	1997	17.3	15.6																
218	Ppw3	0.15	1998	17.2	15.2	2,490	88	41	1.4%	14				0	153						
218	Ppw3	0.15	1999	15.9	14.4	2,324	84	30	1.5%	13	-0.31	90%	88%	323	105	0	132				
218	Ppw3	0.15	2000	16.2	14.5									0	21		32	0.79	4.7	15	39
218	Ppw3	0.15	2001											0	48						
218	Ppw3	0.15	2002	15.6	14.1	6,539	150	45	1.4%	13	-0.58	96%	87%	583	87	0	37				
218	Ppw3	0.15	2003	15.5	14.1	7,310	153	35	1.4%	16	-1.16										
218	Ppw3	0.15	2004	15.0	14.7	5,151	153	28	1.4%	15	-1.02					0	28				
218	Ppw3	0.15	2005	15.6	14.2	8,119	151	37	1.4%	17	-1.11										
218	Ppw3	0.15	2006			10,327	180	22	1.6%	16	-1.20										
218	Ppw3	0.15	2007			10,378	185	35	1.5%	15	-1.13										
218	Ppw3	0.15	2008	15.9	14.8	10,354	198	31	1.5%	17	-1.27	90%	87%			0	5				
218	Ppw3	0.15	2009	15.4	14.3	10,733	204	38	1.5%	16	-1.12					0	84				
218	Ppw3	0.15	2010	14.6	13.2	10,857	209	33	1.5%	15	-1.13										
218	Ppw3	0.15	2011	14.8	13.5	11,228	217	38	1.5%	16	-1.39	88%	87%			0	153				
218	Ppw3	0.15	2012	14.7	13.5	11,203	208	21	1.5%	17	-1.42					0	201				
218	Ppw3	0.15	2013	15.1	14.9	11,268	215	25	1.5%	15	-1.58					0	58				
218	Ppw3	0.15	2014	15.7	14.8	11,372	219	24	1.3%	15	-1.54					0	32				
218	Ppw3	0.15	2015	16.2	15.2	11,249	213	27	1.6%	13	-1.35	91%	91%	918	184	0	42				
218	Ppw3	0.15	2016	14.9	13.8	11,123	225	30	1.5%	13	-1.83	91%	91%								
218	Ppw3	0.15	2017	16.0	15.5	11,467	252	26	1.4%	13	-1.77	91%	91%			0	0				
218	Ppw3	0.15	2018	14.5	13.9	11,289	250	28	1.4%	14	-1.83					0	15				
218	Ppw3	0.15	2019	16.5	15.3	12,971	326	25	1.7%	12	-0.32	93%	93%								
218	Ppw3	0.15	2020	15.4	15.4	13,183	332	28	1.7%	10	-0.17	96%	95%								
218	Ppw3	0.15	2021	14.1	13.7	13,005	335	31	1.7%	9	-0.25	91%	91%								

60P

Station Number	Miles Up Stream	Year	Temperature		LWD Bank Full >6 In & >4 Ft or >10 CuFt		Substrate		Streambed (Thalweg)			Riparian Zone			Fish or Redds per Mile			Aquatic Macroinvertebrates					
			Seasonal Maximum	MWAT	CuFt/ 1000'	Pieces/ 1000'	>0.85 mm	D50	Slope	VI	A/D	Canopy % WLPZ	Basal Cr. Area	Talles* Tree	Coho (1+)	SH	Redds	Richness Simpson	Hilsenhoff Russian R Index	% Dominant			
218	Ppw3	0.15	2022	14.9	14.4	13,535	335		26	1.7%	14	-0.32	92%	90%									
219	Ppw2	1.29	1994	17.2	14.6																		
219	Ppw2	1.29	1995	17.0	14.9																		
219	Ppw2	1.29	1996	16.7	14.7																		
219	Ppw2	1.29	1997	17.8	15.0																		
219	Ppw2	1.29	1998	17.3	14.9																		
219	Ppw2	1.29	2009	14.3	13.5																		
219	Ppw2	1.29	2011	14.1	13.1																		
219	Ppw2	1.29	2012	13.9	12.9																		
219	Ppw2	1.29	2017	16.0	15.1																		
Big Pepperwood			Avg	15.8	14.4	10,021	212		31	1.5%	14	-1.1	92%	90%	601	125	0	67	32	0.79	4.7	15	39
250	GrG	0.05	1996	14.1	13.1																		
250	GrG	0.05	2002	16.2	13.3																		
250	GrG	0.05	2012	13.3	12.3																		
277	GrG	0.27	1998	13.9	13.4																		
277	GrG	0.27	2000	17.6	14.5																		
277	GrG	0.27	2011	13.4	12.9																		
Groshong Gulch			Avg	14.8	13.3																		
614	Gua8	0.00	2000	22.9	18.4																		
614	Gua8	0.00	2009	21.7	18.1																		
614	Gua8	0.00	2017	22.1	18.5																		
614	Gua8	0.00	2018	20.2	17.9																		
750	Gul	1.19	2009	22.5	19.2																		
750	Gul	1.19	2011	23.2	19.7																		
Gualala River			Avg	22.1	18.6																		
220	Lpw	0.11	1994	15.8	14.3																		
220	Lpw	0.11	1995	19.4	16.0																		
220	Lpw	0.11	1996	17.8	15.0																		
220	Lpw	0.11	1997	16.7	15.0																		
220	Lpw	0.11	1998	17.8	15.6																		
220	Lpw	0.11	2002	15.1	13.8																		
220	Lpw	0.11	2003	15.9	14.8																		

014

Station Number	Miles Up Stream	Year	Temperature		LWD Bank Full >6 in & >4 Ft or >10 CuFt		Substrate		Streambed (Thalweg)			Riparian Zone			Fish or Redds per Mile			Aquatic Macroinvertebrates				
			Seasonal Maximum	MWAT	CuFt/ 1000'	Pieces/ 1000'	>0.85 mm	D50	Slope	VI	A/D	Canopy % WLPZ	Basal Cr. Area	Tallest Tree	Coho (1+)	SH	Redds	Richness Simpson	Hilsenhoff Russian R	% Dominant Index		
220	Lpw	0.11	2004	14.8	14.3										0	8						
220	Lpw	0.11	2005	16.0	14.6																	
220	Lpw	0.11	2008	14.7	14.3																	
220	Lpw	0.11	2009	14.4	13.7																	
220	Lpw	0.11	2012	14.2	13.1																	
220	Lpw	0.11	2015	14.5	13.7																	
220	Lpw	0.11	2018	15.0	13.8																	
Little Pepperwood			Avg	15.9	14.5										0	65						
217	Gua1	0.98	1994	22.7	19.2																	
217	Gua1	0.98	1995	25.3	20.6																	
217	Gua1	0.98	1996	24.4	20.1																	
217	Gua1	0.98	1997	24.5	22.4																	
217	Gua1	0.98	1998			934	17	24	0.1%	23	93%	16%										
217	Gua1	0.98	1999											0	32							
217	Gua1	0.98	2000	23.2	19.2	804	15	25	0.0%	22	-0.10	96%	17%	226	199	0	21	26	0.87	4.4	16	28
217	Gua1	0.98	2001	23.3	19.1	1,649	34	20	0.1%	20	0.19					0	11					
217	Gua1	0.98	2002			1,488	28	22	0.1%	27	0.01					0	0					
217	Gua1	0.98	2003			1,094	25	12	0.1%	22	0.10					0	149					
217	Gua1	0.98	2004	23.2	20.0	1,264	28	19	0.1%	25	0.18					0	97					
217	Gua1	0.98	2006			1,025	21	20														
217	Gua1	0.98	2007			1,087	22	15	0.1%	21	-0.23											
217	Gua1	0.98	2008	24.5	19.8	1,110	29	19	0.1%	23	-0.24					0	25					
217	Gua1	0.98	2009	23.2	18.9	1,109	30	16	0.1%	22	-0.14					0	165					
217	Gua1	0.98	2010	22.4	18.3																	
217	Gua1	0.98	2011	22.5	18.8											0	465					
217	Gua1	0.98	2012	22.1	18.5											0	1,067					
217	Gua1	0.98	2013	23.2	18.8	1,064	27	18	0.1%	34	-0.70					0	127					
217	Gua1	0.98	2014	22.9	19.4											0	346					
217	Gua1	0.98	2015	21.7	19.7	1,128	29	24	0.1%	30	-0.53					0	153					
217	Gua1	0.98	2016	22.5	19.2																	
217	Gua1	0.98	2017	22.9	19.3											0	269					
217	Gua1	0.98	2018	22.3	19.5	1,249	32	19	0.0%	38	-0.71					0	148					
217	Gua1	0.98	2019	22.5	19.6																	
217	Gua1	0.98	2020	22.5	19.6																	

Station Number	Miles Up Stream	Year	Temperature		LWD Bank Full >6 In & >4 Ft or >10 CuFt		Substrate		Streambed (Thalweg)			Riparian Zone			Fish or Redds per Mile			Aquatic Macroinvertebrates						
			Seasonal Maximum	MWAT	CuFt/ 1000'	Pieces/ 1000'	>0.85 mm.	D50	Slope	VI	A/D	Canopy % WLPZ	% Cr.	Basal Area	Tallest Tree	Coho (1+)	SH	Redds	Richness Simpson	Hilsenhoff Russian R Index	% Dominant			
217	Gua1	0.98	2021	21.7	19.3																			
217	Gua1	0.98	2022	21.7	19.5	1,758	37	22	0.1%	31	-1.20	93%	27%											
South Fork Gualala River				Avg	23.0	19.5	1,240	26	20	0.1%	26	-0.3	94%	20%	226	199	0	205	28	0.87	4.4	16	28	
Hydrologic Uni SF Gualala				Avg	18.1	16.0	6,699	142	26	1.0%	19	-0.8	92%	75%	507	144	0	132	30	0.83	4.6	16	33	
				Avg	18.1	16.0	6,699	142	26	1.0%	19	-0.8	92%	75%	507	144	0	132	30	0.83	4.6	16	33	
				Min	13.3	12.3	804	15	12	0.0%	9	-1.8	88%	16%	226	87	0	0	28	0.79	4.4	15	28	
				Max	25.3	22.4	13,535	335	45	1.7%	38	0.19	96%	95%	918	199	0	1,067	32	0.87	4.7	16	39	
Old Growth Watersheds (HRSP)				18.5	15.6			21.6%	62									26.2	0.89					
Poor-Normal-Good																		26-35	.8-.89	4.6-3.1	12-17	39-15		
NCWQCB Target				18.3	16.8			<14%																

112	Temperature	Large Woody Debris (LWD)	Stream Substrate	Fish Surveys
	<ul style="list-style-type: none"> Seasonal Maximum – The highest water temperature recorded during the summer. Maximum weekly average temperature (MWAT) - The highest average temperature for any seven day rolling average 	<ul style="list-style-type: none"> LWD must be at least 6 inches on the small end and longer than 4 feet. Cubic Feet per 1,000 feet – The cubic volume of LWD located between the bankfull lines. Pieces per 1,000' – The number of LWD pieces per 1000' 	<ul style="list-style-type: none"> <0.85mm – The percent fines less than 0.85 millimeters in a McNeal sample. D50- The pebble size of the median pebble of a 100 pebble sample. Three sample sites on each reach are averaged. 	<ul style="list-style-type: none"> Presence/absence snorkel surveys also estimate fish numbers per mile. <ul style="list-style-type: none"> Coho – Coho salmon any age. SH (1+) – Steelhead one year old or older. Redds - Number of salmon spawning nests found per mile during the season.
	Streambed (Thalweg) Survey	Riparian Condition	Macroinvertebrates	
	<ul style="list-style-type: none"> Slope – the slope of the channel VI – The variation index is the [(SD of residual depth/bank full depth) *100]. This is a way of quantifying roughness and hence suitability for fish. Greater than 20 is a good indication of recovery. A/D – The change in elevation of the channel (aggradation or degradation) relative to the first year of measurement. 	<ul style="list-style-type: none"> Canopy Cover percent as measured with a spherical densiometer. Every 200', canopy percent is measured in the center of the channel. And at bank full and 50' into the riparian zone from bankfull on both sides of the channel. Four measurements are averaged at each point. WLPZ (Watercourse and Lake Protection Zone) – The average of all the measurements taken on either side of the channel 50' into the riparian zone. Cr. – The average of all the measurements taken in the center of the channel. Riparian inventory plots were locate both sides of the channel every 200' Basal Area – Is the average basal area in square feet of all the riparian plots Tallest Tree - Is the tallest tree measured on the riparian plots. 	<ul style="list-style-type: none"> Richness – Total number of Genuses represented. Simpson Diversity Index – Measures the evenness of species diversity Hilsenhoff – This is a locally modified Hilsenhoff index. It indicates levels of organic pollution Russian River Index – A localized index that combines several standard metrics Percent Dominant Taxon – this is a species distribution index 	

Completed Road Work:Pepperwood PWS

Hydrologic Unit All
 Planning Watershed Big Pepperwood Creek
 Road # All From Mi All To Mi All
 THP All From Date 1/1/1983 To Date 5/25/2023

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
0	2104	0.000	Haschak	Pehl	03-089	Primrose	Surface Drainage	THP Mitigation	III		0	0	0	0	0	\$0	0
Existing Skid	2104	0.000	AL	8/15/2004		ECP Not	Waterbar	Medium	-	-	0	0	0	0	0	\$0	0
waterbars on this skid trail should empty to the west away from the unstable area (not to the east as they currently do).																	
0	2550	0.000	Haschak	Pehl	05-146	Moss	Temp Crossing	Maintenance	III		0	0	0	0	0	\$0	0
Existing Skid	2550	0.000	AL	10/13/2005		ECP Not	Temp Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Skid trail crossing wet area. Install 6" by 20' pipe if wet at time of operations. Pull pipe at close.																	
0	2103	0.000	Haschak	Pehl	03-089	Primrose	Surface Drainage	THP Mitigation	III		0	0	0	0	0	\$0	0
Existing Skid	2103	0.000	AL	10/15/2005		ECP Not	Waterbar	Medium	-	-	0	0	0	0	0	\$0	0
construct waterbar by hand on this old skid trail so that water goes into adjacent swale. Put first waterbar at painted tree (M.P. #10) and go uphill from this point and place at least one or two more waterbars.																	
0	2549	0.000	Haschak	Pehl	05-146	Moss	Temp Crossing	Maintenance	N/A		0	0	0	0	0	\$0	0
Existing Skid	2549	0.000	AL	10/13/2006		ECP Not	Temp Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Skid trail crossing class III. Install 6" by 20' pipe if wet at time of operations. Pull pipe at close.																	
Crossing not used in THP.																	
0	4512	0.000	Pehl	Pehl	05-023	Clover	No Problem	THP ECP	N/A		0	0	0	0	0	\$0	0
Private Seasonal	4512	0.000	Unk	10/14/2006		1B105023MEN	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	2990	0.000	Pehl	Pehl	00-391	Terrapur Station	No Problem	THP Maint Insp	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2990	0.000	Unk	12/29/2006		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems. Several trees across road limited access.																	
0	3001	0.000	Pehl	Pehl	03-089	Primrose	No Problem	THP Maint Insp	N/A		0	0	0	0	0	\$0	0
Private Seasonal	3001	0.000	Unk	1/3/2007		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	3006	0.000	Pehl	Pehl	99-460	Sugarce	No Problem	THP Maint insp	N/A		0	0	0	0	0	\$0	0
Private Seasonal	3006	0.000	Unk	1/5/2007		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	3004	0.000	Pehl	Pehl	05-023	Clover	No Problem	THP ECP	N/A		0	0	0	0	0	\$0	0
Private Seasonal	3004	0.000	Unk	1/5/2007		1B105023MEN	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	4286	0.000	Pehl	Pehl	05-023	Clover	No Problem	THP ECP	N/A		0	0	0	0	0	\$0	0
Private Seasonal	4286	0.000	Unk	5/15/2007		1B105023MEN	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossing. No problems.																	

U.P.

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
0	4231	0.000	Pehl	Pehl	00-391	Terrapin Station	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4231	0.000	Unk	5/25/2007		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems. Trees cleared from road.																	
0	4237	0.000	Pehl	Pehl	03-389	Primrose	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4237	0.000	Unk	6/4/2007		FCP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	2551	0.000	Easchak	Pehl	05-146	Moss	Temp. Crossing	Maintenance	III	0	0	0	0	0	0	\$0	0
Existing Skid	2551	0.000	AL	9/7/2007		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Temporary crossing of class III. If wet at time of operations install temporary pipe 6" by 20'. Remove pipe and dip out at close of operations.																	
0	4417	0.000	Pehl	Pehl	00-391	Terrapin Station	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4417	0.000	Unk	11/8/2007		FCP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	4395	0.000	Pehl	Pehl	06-009	Ivy	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4395	0.000	Unk	11/9/2007		1B10509SON	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings north of Rockpile Creek.																	
0	4396	0.000	Pehl	Pehl	06-009	Ivy	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4396	0.000	Unk	11/12/2007		1B10609SON	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings south of Buckeye Creek.																	
0	4414	0.000	Pehl	Pehl	05-023	Clover	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4414	0.000	Unk	11/14/2007		1B105023MEN	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. Trespassing by motorcycles, mountain bikes, and horses may become an issue, but erosion control is currently functioning.																	
0	4421	0.000	Pehl	Pehl	03-089	Primrose	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4421	0.000	Unk	11/15/2007		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	4424	0.000	Pehl	Pehl	05-023	Clover	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4424	0.000	Unk	11/26/2007		1B105023MEN	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Met with John Bower and looked at roads around Units I and J. Trespassing is an issue, but erosion control is currently functioning.																	
0	4425	0.000	Pehl	Pehl	05-023	Clover	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4425	0.000	Unk	11/28/2007		1B105023MEN	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Inspected road from Old Stage Road to Unit D. Dips are functioning, but there is a lot of motorcycle traffic. Scraped dip axis or waterbarred where necessary to ensure drainage.																	
0	4463	0.000	Pehl	Pehl	05-009	Ivy	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4463	0.000	Unk	1/9/2008		1B10609SON	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings south of Buckeye Creek.																	
0	4461	0.000	Pehl	Pehl	00-391	Terrapin Station	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4461	0.000	Unk	1/10/2008		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	4467	0.000	Pehl	Pehl	05-023	Clover	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4467	0.000	Unk	1/14/2008		1B105023MEN	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings associated with Units A, B, and D. No problems.																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Lr	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
0	4470	0.000	Pehl	Pehl	05-023	Clover	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4470	0.000	Unk	1/15/2008		1B105023MEN	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings associated with Units E, F, G, H, I, and J. No problems, other than minor waterbar maintenance (shovel work).																	
0	4618	0.000	Pehl	Pehl	05-009	Ivy	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4618	0.000	Unk	1/24/2008		1B106009SON	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings north of Rockpile Creek. No problems.																	
0	4617	0.000	Pehl	Pehl	05-023	Clover	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4617	0.000	Unk	6/6/2008		1B105023MEN	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings associated with all units. No problems.																	
0	4619	0.000	Pehl	Pehl	05-009	Ivy	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4619	0.000	Unk	6/12/2008		1B106009SON	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	4892	0.000	Pehl	Pehl	03-089	Primrose	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4892	0.000	Unk	9/9/2008		ECP Net	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings for final completion. No problems.																	
0	4885	0.000	Pehl	Pehl	05-023	Clover	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4885	0.000	Unk	11/5/2008		1B105023MEN	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings associated with all units. No problems.																	
0	4889	0.000	Pehl	Pehl	05-009	Ivy	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4889	0.000	Unk	11/10/2008		1B106009SON	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	4901	0.000	Pehl	Pehl	00-391	Terrapin Station	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4901	0.000	Unk	11/17/2008		ECP Net	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	4931	0.000	Pehl	Pehl	03-089	Primrose	No Problem	THP Non-Road	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4931	0.000	Unk	12/3/2008		ECP Net	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Final Certification Notice sent to NCRWQCB to end waiver coverage.																	
0	4930	0.000	Pehl	Pehl	05-023	Clover	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4930	0.000	Unk	12/3/2008		1B105023MEN	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Notice of Termination sent to NCRWQCB.																	
0	5298	0.000	Pehl	Pehl	06-009	Ivy	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5298	0.000	Unk	2/13/2009		1B106009SON	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	5335	0.000	Pehl	Pehl	06-009	Ivy	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5335	0.000	Unk	5/15/2009		1B106009SON	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	5333	0.000	Pehl	Pehl	05-023	Clover	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5333	0.000	Unk	6/12/2009		1B105023MEN	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Notice of Termination for WDID 1B105023MEN accepted by NCRWQCB.																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Lr	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
0	5380	0.000	Pehl	Pehl	05-009	Ivy	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5380	0.000	Unk	13/14/2009		1B106009SON	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	5385	0.000	Pehl	Pehl	06-009	Ivy	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5385	0.000	Unk	10/21/2009		1B106009SON	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	5400	0.000	Pehl	Pehl	05-023	Clover	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5400	0.000	Unk	10/23/2009		ECP Net	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings in the portion of the plan west of Old Stage Road. On going trespass issues. Erosion control still in place.																	
0	5389	0.000	Pehl	Pehl	03-089	Primrose	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5389	0.000	Unk	10/23/2009		ECP Net	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	5390	0.000	Pehl	Pehl	05-023	Clover	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5390	0.000	Unk	10/23/2009		ECP Net	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings in the south and central portions of the THP. No problems.																	
0	5511	0.000	Pehl	Pehl	06-009	Ivy	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5511	0.000	Unk	5/5/2010		1B106009SON	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	5542	0.000	Pehl	Pehl	08-086	Belladonna	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5542	0.000	Unk	11/11/2010		Waiver	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	5540	0.000	Pehl	Pehl	03-089	Primrose	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5540	0.000	Unk	11/12/2010		ECP Net	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	5544	0.000	Pehl	Pehl	03-089	Primrose	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5544	0.000	Unk	11/15/2010		ECP Net	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	5545	0.000	Pehl	Pehl	05-009	Ivy	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5545	0.000	Unk	11/16/2010		1B106009SON	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	5572	0.000	Pehl	Pehl	08-086	Belladonna	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5572	0.000	Unk	1/4/2011		Waiver	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	5584	0.000	Pehl	Pehl	06-009	Ivy	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5584	0.000	Unk	1/6/2011		1B106009SON	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings north of Rockpile Creek. No problems.																	
0	5579	0.000	Pehl	Pehl	03-089	Primrose	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5579	0.000	Unk	1/10/2011		ECP Net	No Action	Medium	-	-	0	0	0	0	0	\$0	0

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Lr	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
0	5585	0.000	Pehl	Pehl	06-089	Ivy	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5585	0.000	Unk	1/12/2011		1B106009SON	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings south of Buckeye Creek. No problems.																	
0	5773	0.000	Pehl	Pehl	08-086	Belladonna	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5773	0.000	Unk	11/16/2011		Waiver	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	5774	0.000	Pehl	Pehl	08-086	Belladonna	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5774	0.000	Unk	1/27/2012		Waiver	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	5801	0.000	Pehl	Pehl	08-086	Belladonna	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5801	0.000	Unk	6/7/2012		Waiver	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	5854	0.000	Pehl	Pehl	08-086	Belladonna	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5854	0.000	Unk	10/12/2012		Waiver	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Road work in progress. Erosion control for 2012 logging completed. Inspected roads and watercourse crossings. No problems.																	
0	5865	0.000	Pehl	Pehl	08-086	Belladonna	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5865	0.000	Unk	10/22/2012		Waiver	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings after first fall rains. No problems.																	
0	5869	0.000	Pehl	Pehl	08-086	Belladonna	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5869	0.000	Unk	11/5/2012		Waiver	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	5872	0.000	Pehl	Pehl	08-086	Belladonna	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5872	0.000	Unk	12/3/2012		Waiver	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	5875	0.000	Pehl	Pehl	08-086	Belladonna	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5875	0.000	Unk	1/8/2013		Waiver	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	5946	0.000	Pehl	Pehl	08-086	Belladonna	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5946	0.000	Unk	5/8/2013		Waiver	No Action	Medium	-	-	0	0	0	0	0	\$0	0
No 2013 operations to date. Roads and watercourses have held up fine. Very dry spring weather.																	
0	6035	0.000	Pehl	Pehl	08-086	Belladonna	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6035	0.000	Unk	10/22/2013		Waiver	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected Roads and Watercourse Crossings. No problems.																	
0	6039	0.000	Pehl	Pehl	10-081	Juniper	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6039	0.000	Unk	11/7/2013		GWDR 1-10-081	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	6092	0.000	Pehl	Pehl	10-081	Juniper	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6092	0.000	Unk	5/5/2014		GWDR 1-10-081	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected THP area and notified LTO of work necessary to complete the THP.																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
0	5416	0.000	Haschak Pehl	10-081	Juniper	Temp. Crossing	THP Non-Road	III		0	0	0	0	0	0	\$0	0
Existing Skid	5416	0.000	Unk	10/15/2014		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Class III skid xing. If wet at time of operations install 4" by 20' pipe or larger if necessary. Dip out at close of operations to stream grade. Create mound on downhill side of watercourse so that watercourse does not flow down skid trail.																	
0	5434	0.000	Haschak Pehl	10-081	Juniper	Temp. Crossing	THP Non-Road	Swale		0	0	0	0	0	0	\$0	0
Existing Skid	5434	0.000	Unk	10/15/2014		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Cross abandoned class III channel now just a swale. Dip out at close of operations.																	
0	5454	0.000	Haschak Pehl	10-081	Juniper	Temp. Crossing	THP Non-Road	Swale		0	0	0	0	0	0	\$0	0
Existing Skid	5454	0.000	Unk	10/15/2014		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
What appears to be a class III has had its water supply cutoff probably by moving a culvert on the road above it. No connectivity below. If flagged skid trail is used to cross this swale then dip out and maintain existing mound that keeps any flow from running down the lower skid trail.																	
0	5405	0.000	Haschak Pehl	10-081	Juniper	Temp. Crossing	THP Non-Road	III		0	0	0	0	0	0	\$0	0
Existing Skid	5405	0.000	Unk	10/15/2014		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Class III temporary skid xing. If wet at time of operations install 4" by 20' pipe or larger if necessary. Dip out crossing at close.																	
0	5407	0.000	Haschak Pehl	10-081	Juniper	Temp. Crossing	THP Non-Road	III		0	0	0	0	0	0	\$0	0
Existing Skid	5407	0.000	Unk	10/15/2014		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Class III temporary skid xing. If wet at time of operations install 4" by 20' pipe or larger if necessary. Dip out crossing at close.																	
0	5409	0.000	Haschak Pehl	10-081	Juniper	Temp. Crossing	THP Non-Road	III		0	0	0	0	0	0	\$0	0
Existing Skid	5409	0.000	Unk	10/15/2014		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Class III temporary skid xing. If wet at time of operations install 4" by 20' pipe or larger if necessary. Dip out crossing at close.																	
0	5411	0.000	Haschak Pehl	10-081	Juniper	Temp. Crossing	THP Non-Road	III		0	0	0	0	0	0	\$0	0
Existing Skid	5411	0.000	Unk	10/15/2014		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Class III temporary skid xing. If wet at time of operations install 4" by 20' pipe or larger if necessary. Dip out crossing at close.																	
0	5461	0.000	Haschak Pehl	10-081	Juniper	Temp. Crossing	THP Non-Road	II		0	0	0	0	0	0	\$0	0
Existing Skid	5461	0.000	Unk	10/15/2014		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Install pipe adequate to handle flow if wet at time of operations. Remove and dip out at close of operations.																	
0	5413	0.000	Haschak Pehl	10-081	Juniper	Surface Drainage	THP Non-Road	Spr.		0	0	0	0	0	0	\$140	0
Existing Skid	5413	0.000	Unk	10/15/2014		GWDR 1-10-081	Excavate Soil	Medium	-	-	0	0	0	1	10	\$0	0
There is a spring at skid trail intersection. Reroute skid trail around spring to avoid spring as much as is feasible. Spring is running down the skid trail system to the north and has created downslope erosion and a class III. Dip out edge of spring on the south west side so that it drains downhill towards existing springy area about 50 feet to the south west and this will cause it to end up in existing draws. It may be necessary to also drain the skid trail that is about 100 feet to the southwest if this action causes that skid trail to become moist where spring water crosses it on its way downslope.																	
0	5458	0.000	Haschak Pehl	10-081	Juniper	Temp. Crossing	THP Non-Road	III		0	0	0	0	0	0	\$0	0
Existing Skid	5458	0.000	Unk	10/15/2014		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Class III temporary skid xing. If wet at time of operations install 4" by 20' pipe or larger if necessary. Dip out crossing at close.																	
0	5457	0.000	Haschak Pehl	10-081	Juniper	Temp. Crossing	THP Non-Road	III		0	0	0	0	0	0	\$0	0
Existing Skid	5457	0.000	Unk	10/15/2014		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Class III temporary skid xing. If wet at time of operations install 4" by 20' pipe or larger if necessary. Dip out crossing at close.																	

XIV

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
0	5455	0.000	Haschak Pehl	10-081	Juniper	Temp. Crossing	THP Non-Road	Swale		0	0	0	0	0	0	\$0	0
Existing Skid	5455	0.000	Unk	10/15/2014		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Dip out swale on skid trail but not down to grade.																	
0	5415	0.000	Haschak Pehl	10-081	Juniper	Temp. Crossing	THP Non-Road	Spr.		0	0	0	0	0	0	\$0	0
Existing Skid	5415	0.000	Unk	10/15/2014		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
install spring drain 4" x 20' pipe if wet at time of operations. Dip out at close of operations.																	
0	5410	0.000	Haschak Pehl	10-081	Juniper	Temp. Crossing	THP Non-Road	III		0	0	0	0	0	0	\$0	0
Existing Skid	5410	0.000	Unk	10/15/2014		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Class III temporary skid xing. If wet at time of operations install 4" by 20' pipe or larger if necessary. Dip out crossing at close.																	
0	5431	0.000	Haschak Pehl	10-081	Juniper	Temp. Crossing	THP Non-Road	III		0	0	0	0	0	0	\$0	0
Existing Skid	5431	0.000	Unk	10/15/2014		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Class III skid trail crossing. If wet at time of operations install 4" by 20' pipe or larger if necessary. Dip out crossing at end of operations but if it is not necessary to dip out all the way to existing grade on the downhill side.																	
0	5432	0.000	Haschak Pehl	10-081	Juniper	Temp. Crossing	THP New Con.	Swale		0	0	0	0	0	0	\$0	0
Private Seasonal	5432	0.000	Unk	10/15/2014		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Dip out crossing of minor swale on proposed seasonal road at end of operations.																	
0	5594	0.000	Haschak Pehl	11-043	Rose	Temp. Crossing	THP Non-Road	Swale		0	0	0	0	0	0	\$0	0
Existing Skid	5594	0.000	Unk	10/17/2014		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
skid xing on class III. Go straight across. Stay out of channel except to repair point #6 below. Dip out any loose material at close.																	
0	5593	0.000	Haschak Pehl	11-043	Rose	Gully	THP Non-Road	III		0	0	0	2	0	0	\$450	200
Existing Skid	5593	0.000	Unk	10/17/2014		GWDR J-11-043 Me	Excavate Soil	Medium	-	-	0	0	2	0	0	\$2	200
An old skid trail has diverted a class III causing erosion. Recontour the draw so that class III returns to natural channel. This will require that a piece of equipment go down the thru cut from the upper road but will save a lot of sediment in the long run. This road point will be fixed irregardless of yarding method used on this unit.																	
0	5589	0.000	Haschak Pehl	11-043	Rose	Temp. Crossing	THP Non-Road	III		0	0	0	0	0	0	\$0	0
Existing Skid	5589	0.000	Unk	10/17/2014		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Existing skid crossing on class III. Install 4" or larger pipe if wet at time of operations. Dip out at close.																	
0	5598	0.000	Haschak Pehl	11-043	Rose	Temp. Crossing	THP Non-Road	Spr.		0	0	0	0	0	0	\$0	0
Existing Skid	5598	0.000	Unk	10/17/2014		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
install 4" or larger spring drain if wet at time of operations. Can be left in if functioning or pulled and dipped out at close.																	
0	5599	0.000	Haschak Pehl	11-043	Rose	Temp. Crossing	THP Non-Road	III		0	0	0	0	0	0	\$0	0
Existing Skid	5599	0.000	Unk	10/17/2014		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Barely a class III. Hard to define at this point. Lightly scrap off any loose earth from this area at close of operations.																	
0	5632	0.000	Haschak Pehl	11-043	Rose	No Problem	THP Non-Road	N/A		0	0	0	0	0	0	\$0	0
Existing Skid	5632	0.000	Unk	10/17/2014		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
An existing skid trail approaches the road system near a class II. Skid trail shall be sloped so that no significant sidecasting of soil shall occur.																	
0	6093	0.000	Pehl	Pehl	10-081	Juniper	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6093	0.000	Unk	10/22/2014		GWDR 1-10-081	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected progress of THP Clean Up. Access limited by soft roads. No problems.																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Car	Labor	Yds	\$/FSD	FSD Yds
0	6116	0.000	Bennett	Bennett	11-087	Kestrel	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6116	0.000	Unk	11/12/2014		GWDR 1-11-087 SO	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourses. No problems.																	
0	6382	0.000	Barnett	Bennett	11-087	Kestrel	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6382	0.000	Unk	1/21/2015		GWDR 1-11-087 SO	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourses. No problems.																	
0	5535	0.000	Hasehak	Bennett	11-087	Kestrel	Temp. Crossing	THP Non-Road	N/A	0	0	0	0	0	0	\$0	0
Existing Skid	5535	0.000	R&S	2/3/2015		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Skid trail crossing of low area; may be moist until mid summer. Do not use until operator has inspected for dryness.																	
0	6383	0.000	Bennett	Bennett	11-087	Kestrel	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6383	0.000	Unk	7/9/2015		GWDR 1-11-087 SO	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourses. No problems.																	
0	6381	0.000	Alden	Alden	10-081	Juripee	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6381	0.000	Unk	9/21/2015		GWDR 1-10-081	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings.																	
No problems.																	
0	5787	0.000	Hasehak	Bennett	12-087	Alder	Temp. Crossing	THP Non-Road	IT	0	0	0	0	0	0	\$0	0
Existing Skid	5787	0.000	Unk	11/14/2015		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Install 4" or larger pipe if water is present at time of operations. Dip out at close of operations																	
0	6541	0.000		Ghirann	17-104	Elm	Temp. Crossing	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6743	0.000	Unk	6/10/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
0	6547	0.000		Ghirann	17-104	Elm	Surface Drainage	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6727	0.000	Unk	6/11/2019		ECP Not	Dig Rolling	Medium	-	-	0	0	0	0	0	\$0	0
0	6054	0.000		Ghirann	17-104	Elm	Surface Drainage	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6722	0.000	Unk	6/11/2019		ECP Not	Waterbar	Medium	-	-	0	0	0	0	0	\$0	0
0	5566	0.000		Ghirann	17-104	Elm	Fumboldt	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6742	0.000	Unk	6/11/2019		ECP Not	Armored Ford	Medium	-	-	0	0	0	0	0	\$0	0
0	1002	0.000		Ghirann	17-104	Elm	Culv. Replace	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6741	0.000	Unk	6/11/2019		ECP Not	Culv. Replace	Medium	-	-	0	0	0	0	0	\$0	0
0	6544	0.000		Ghirann	17-104	Elm	Temp. Crossing	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6717	0.000	Unk	6/11/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
0	6053	0.000		Ghirann	17-104	Elm	Surface Drainage	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6720	0.000	Unk	6/11/2019		ECP Not	Waterbar	Medium	-	-	0	0	0	0	0	\$0	0
0	5542	0.000		Ghirann	17-104	Elm	Temp. Crossing	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6715	0.000	Unk	6/11/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
0	6052	0.000		Ghirann	17-104	Elm	Surface Drainage	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6721	0.000	Unk	6/11/2019		ECP Not	Waterbar	Medium	-	-	0	0	0	0	0	\$0	0

road closed

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
0	6545	0.000		Ghirann	17-104	Elm	Temp. Crossing	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6718	0.000	Unk	6/11/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
0	6543	0.000		Ghirann	17-104	Elm	Temp. Crossing	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6716	0.000	Unk	6/11/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
0	1884	0.000		Ghirann	17-104	Elm	Temp. Crossing	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6738	0.000	Unk	6/11/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
0	6539	0.000		Ghirann	17-104	Elm	Temp. Crossing	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6737	0.000	Unk	6/11/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
0	6548	0.000		Ghirann	17-104	Elm	Slide - Deep	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6712	0.000	Unk	6/11/2019		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
Slide onto road, still possible to pass.																	
0	6540	0.000		Ghirann	17-104	Elm	Gully	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6714	0.000	Unk	6/11/2019		ECP Not	Waterbar	Medium	-	-	0	0	0	0	0	\$0	0
0	6571	0.000		Ghirann	17-104	Elm	Surface Drainage	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6735	0.000	Unk	6/11/2019		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
0	1262	0.000		Ghirann	17-104	Elm	Temp. Crossing	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6730	0.000	Unk	6/11/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
0	6546	0.000		Ghirann	17-104	Elm	Surface Drainage	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6729	0.000	Unk	6/11/2019		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
0	6580	0.000		Ghirann	17-104	Elm	Surface Drainage	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6728	0.000	Unk	6/11/2019		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
0	1003	0.000		Ghirann	17-104	Elm	Temp. Crossing	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6740	0.000	Unk	6/11/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
0	6576	0.000		Ghirann	17-104	Elm	Temp. Crossing	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6726	0.000	Unk	6/11/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
0	803	0.200		Ghirann	Maintena	Maintenance	Worn Out Culvert	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6765	0.000	Unk	6/11/2019		ECP Not	Culv. Replace	Medium	-	-	0	0	0	0	0	\$0	0
rusted at outlet																	
0	822	0.250		Ghirann	Maintena	Maintenance	Worn Out Culvert	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6760	0.000	Unk	6/11/2019		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
down spout rusting																	
0	2264	0.280		Ghirann	Maintena	Maintenance	Worn Out Culvert	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6755	0.000	Unk	6/11/2019		ECP Not	Culv. Replace	High	-	-	0	0	0	0	0	\$0	0
inlet bottom completely rusted out. Outlet partially filled with sediment, appears water is not flowing through pipe.																	
0	934	0.675		Ghirann	Maintena	Maintenance	Worn Out Culvert	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6759	0.000	Unk	6/11/2019		ECP Not	Culv. Replace	Medium	-	-	0	0	0	0	0	\$0	0
inlet very rusted and partially crushed.																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	R3 P:	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Lr	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
0	818	0.710		Ghirann	Maintena	Maintenance	Culv.	Maintenance	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6761	0.000	Unk	6/11/2019		ECP Not	Culv. Maintenance	Medium	-	-	0	0	0	0	0	\$0	0
outlet partially crushed. Down cutting																	
0	933	0.770		Ghirann	Maintena	Maintenance	Surface Drainage	Maintenance	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6758	0.000	Unk	6/11/2019		ECP Not	Rock Surface	Medium	-	-	0	0	0	0	0	\$0	0
pooling on road																	
0	118	1.000		Ghirann	Maintena	Maintenance	Culv.-HDP-Plug	Maintenance	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6767	0.000	Unk	6/11/2019		ECP Not	Culv. Maintenance	Medium	-	-	0	0	0	0	0	\$0	0
pipe outlet 2/3 filled with sediment.																	
0	811	1.270		Ghirann	Maintena	Maintenance	Worn Out Culvert	Maintenance	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6763	0.000	Unk	6/11/2019		ECP Not	Culv. Replace	Medium	-	-	0	0	0	0	0	\$0	0
projected outlet, downcutting. Inlet bottom completely rusted out.																	
0	806	1.660		Ghirann	Maintena	Maintenance	Worn Out Culvert	Maintenance	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6768	0.000	Unk	6/11/2019		ECP Not	Culv. Replace	Medium	-	-	0	0	0	0	0	\$0	0
outlet projected, downcutting, bottom rusted out.																	
0	796	2.110		Ghirann	Maintena	Maintenance	Culv.	Maintenance	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6769	0.000	Unk	5/11/2019		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
down cutting at bottom of down spout																	
0	788	2.620		Ghirann	Maintena	Maintenance	Culv.-Plug	Maintenance	N/A		0	0	0	0	0	\$0	0
Private Seasonal	6770	0.000	Unk	6/11/2019		ECP Not	Culv. Replace	Medium	-	-	0	0	0	0	0	\$0	0
culvert 3/4 filled with sediment, partially crushed at inlet.																	
1.03	1127	0.130	Alden	Alden	Maintena	Maintenance	No Problem	Maintenance	N/A		0	0	0	0	0	\$0	0
Private Seasonal	1127	0.000	Unk	12/5/2000		ECP Not	Gate	Low	-	-	0	0	0	0	0	\$0	0
1.03	2509	0.420	Fisher	Pehl	05-023	Clover	Surface Drainage	THP Mitigation	N/A		0	0	0	0	0	\$0	295
Storm Proofed	2509	1.020	R&S	10/2/2007		1B105023MEN	Tip and Dip	THP Low	-	-	0	0	0	0	0	\$0	293
Trespassers have damaged road drainage structures. Re-install after operations.																	
1.03	3114	1.500	Alden	Alden	Maintena	Maintenance	No Problem	Maintenance	N/A		0	0	0	0	0	\$0	0
Private Seasonal	3114	0.000	Unk	1/23/2007		ECP Not	Gate	No Action	-	-	0	0	0	0	0	\$0	0
Moonrise gate at Old Stage Road																	
1.033507	5911	0.000	Alden	Alden	Maintena	Maintenance	No Problem	Assessment	N/A		0	0	0	0	0	\$0	0
Not Connected	5911	0.000	Unk	2/26/2013		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0
1.0364	2510	0.400	Fisher	Pehl	05-023	Clover	Surface Drainage	THP Mitigation	N/A		0	0	0	0	0	\$0	198
Upgraded	2510	0.400	R&S	10/2/2007		1B105023MEN	Tip and Dip	THP Low	-	-	0	0	0	0	0	\$0	196
1.14	3142	0.030	Alden	Alden	Maintena	Maintenance	No Problem	Maintenance	N/A		0	0	0	0	0	\$1,269	0
Private Seasonal	3142	0.000	R&S	2/26/2007		ECP Not	Gate	Medium	-	-	0	0	0	0	0	\$0	0
Install blocks and gate																	
1.25	2661	1.100	Pehl	Pehl	00-391	Terrapin Station	No Problem	THP Maint Insp	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2661	2.400	Unk	12/20/2005		ECP Not	No Action	See Comments	-	-	0	0	0	0	0	\$0	0
Wet weather road inspection. / Completion Inspection.																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
1.25	2680	1.100	Pehl	Pehl	00-391	Terrapin Station	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2680	2.000	Unk	12/28/2005		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Wet weather inspection. Pipes okay. Everything very wet after 5" of rain in previous 24 hours.																	
1.25	2681	1.100	Pehl	Pehl	01-392	Box of Rain	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2681	2.000	Lrk	12/28/2005		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Wet weather inspection. Pipes okay. Everything very wet after 5" of rain in previous 24 hours.																	
1.25	1106	1.300	Alden	Alden	Maintena	Maintenance	No Problem	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	1106	0.000	Unk	12/5/2005		ECP Not	Gate	Low	-	-	0	0	0	0	0	\$0	0
1.25	5728	1.300	Chidlaw	Chidlaw	Maintena	Maintenance	Other	Maintenance	N/A	0	0	0	0	0	0	\$687	0
Private Seasonal	5728	3.100		8/1/2011		ECP Not	Herbicides	Medium	-	-	0	0	0	18	0	\$0	0
1.25	557	1.400	William	Kelly	Storm Pro	Storm Proofing	Surface Drainage	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	557	4.200	St.	10/16/1999		ECP Not	Dip Rolling	Medium	-	-	0	0	13	0	0	\$0	0
1.25	557	1.400	William	Alden	Maintena	Maintenance	Surface Drainage	THP App. Rd.	N/A	0	0	0	0	0	0	\$750	0
Private Seasonal	988	4.200	MR	7/15/2000		ECP Not	Dip Rolling	Medium	-	-	0	0	10	0	0	\$0	0
1.25	2937	1.500	Pehl	Pehl	Maintena	Maintenance	Surface Drainage	Maintenance	N/A	0	0	0	0	0	0	\$0	1,628
Upgraded	2937	4.800	R&S	7/25/2005		ECP Not	Tip and Dip	Medium	-	-	0	0	0	0	0	\$0	1,628
1.25	1056	1.810	Haschak	Pehl	00-391	Terrapin Station	Other	THP App. Rd.	II	0	0	0	0	0	0	\$0	0
Private Seasonal	1056	0.000	AL	10/15/2004		ECP Not	Other	Low	-	-	0	0	0	0	0	\$0	0
An existing haul road enters the WLPZ of a class II watercourse for a very short distance. No sidecasting while grading through this area.																	
1.25	2132	1.900	Haschak	Pehl	03-000	Madrone	Surface Drainage	THP App. Rd.	Sp.	0	0	0	1	0	0	\$93	0
Private Seasonal	2132	1.900	AL	11/15/2004		ECP Not	Dip Rolling	Medium	-	-	0	0	1	0	0	\$0	0
install an additional rolling dip to the east of the road intersection point (where another rolling dip already exists) but close enough to the intersection so that it intercepts some of the spring drainage that is flowing down the inside ditch. Be careful to avoid the rare plant area that exists to the east and on the south side of the road and that is marked with a fence post.																	
1.25	1864	3.100	Haschak	Pehl	01-392	Box of Rain	Surface Drainage	THP App. Rd.	N/A	0	0	0	5	0	0	\$575	0
Private Seasonal	1864	3.500	R&S	5/30/2005		ECP Not	Excavate Soil	Medium	-	-	0	0	5	0	0	\$0	0
This road segment and segment 1001 have thru cut areas. Breach the berm in these areas and dig trenches out to where the water will drain (at least every 200 feet). Waterbars/rolling dips and the associated drainage ditches will be created by pushing material toward the road and road can be used for spoils, from here and from other locations on the property, in order to raise the road grade. Areas that are not thru cut should have standard waterbars/rolling dips at standard intervals																	
1.25	1763	3.500	Haschak	Pehl	01-392	Box of Rain	Stream Bank	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	1763	0.000	AL	10/15/2004		ECP Not	Cutv Install	Medium	-	-	0	0	1	0	0	\$0	0
install spring drain with critical dip or install rocked rolling dip																	
1.25	1870	3.650	Haschak	Pehl	01-392	Box of Rain	Fill - Road	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	1870	0.000	AL	10/15/2014		ECP Not	Excavate Soil	Medium	-	-	0	0	0	0	0	\$0	0
The road at this point will be out sloped, the perched fill pulled back and incorporated into the road surface.																	
1.25	1796	3.700	Haschak	Pehl	01-392	Box of Rain	Surface Drainage	THP App. Rd.	II	0	0	0	0	0	0	\$0	87
Private Seasonal	1796	0.000	AL	10/15/2004		ECP Not	Other	Medium	24"	36"	0	0	1	0	0	\$0	87
inslope road over culvert																	
1.25	1797	3.750	Haschak	Pehl	01-392	Box of Rain	Cut Bank Failure	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	1797	0.000	AL	10/15/2004		ECP Not	Excavate Soil	Medium	-	-	0	0	0	0	0	\$0	0
Also excavate any outboard fill that is feasible adjacent to this road point while still maintaining the road width																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Lr	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
1.25	1852	3.790	Haschak Pehl		01-392	Box of Rain	Fill - Road	THP App. Rd.	N/A		0	0	0	3	0	\$345	0
Private Seasonal	1852	0.000	R&S	5/30/2006		ECP Not	Excavate Soil	Medium	-	-	0	0	0	0	0	\$0	0
Remove perched fills and widen road by excavating bank. Install an inverse dip (build road grade up) in order to drain the road at this point. In order to widen road arch the road over the top of the slide scar (Spittler recommendation) while excavating into bank. Up to five feet of fill can be placed on the existing road surface and the face of the fill shall be no steeper than 1.5:1. Mulch and grass seed bare ground.																	
1.25	775	3.890	Haschak Pehl		01-392	Box of Rain	Culv.	THP App. Rd.	II		0	0	0	0	1	\$75	80
Private Seasonal	1785	0.000	R&S	5/30/2006		ECP Not	Culv. Replace	High	18"	24"	0	0	1	0	0	\$1	80
install rocked rolling dip at nearest low spot to this point																	
1.25	774	3.900	McCanl		Maintena	Maintenance	Culv.	THP App. Rd.	III		0	0	0	1	0	\$425	0
Private Seasonal	774	0.000	Unk	5/30/2006		ECP Not	Culv. Maintenance	Medium	24"	-	0	0	1	4	0	\$0	0
clear inlet and outlet add 20' of D.S. add critical dip																	
1.25	774	3.900	Haschak Pehl		01-392	Box of Rain	Culv.	THP App. Rd.	III		0	0	0	0	0	\$205	0
Private Seasonal	1776	0.000	R&S	5/30/2006		ECP Not	Culv. Maintenance	Medium	24"	-	0	0	1	4	0	\$0	0
clear inlet and outlet add 20' of downspout add critical dip																	
1.25	771	4.020	Haschak Pehl		01-392	Box of Rain	Surface Drainage	THP App. Rd.	III		0	0	0	0	0	\$90	0
Private Seasonal	1758	0.000	R&S	6/12/2005		ECP Not	Dip Critical	Medium	-	24"	0	0	1	0	0	\$0	0
add critical dip over culvert																	
1.25	2688	4.100	Pehl	Pehl	01-392	Box of Rain	No Problem	THP Maint Insp	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2688	4.800	Unk	12/28/2005		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Wet weather inspection. Pipes okay. Everything very wet after 5" of rain in previous 24 hours.																	
1.25	5719	4.100	Chiclaw	Chiclaw	Maintena	Maintenance	Other	Maintenance	N/A		0	0	0	0	0	\$275	0
Private Seasonal	5719	4.800		8/1/2011		ECP Not	Herbicides	Medium	-	-	0	0	0	7	0	\$0	0
1.25	765	4.120	Haschak Pehl		01-392	Box of Rain	Culv.	THP App. Rd.	III		0	0	0	0	0	\$50	0
Private Seasonal	1775	0.000	R&S	5/30/2006		ECP Not	Dip Critical	Medium	-	-	0	0	1	0	0	\$0	0
add critical dip																	
1.25	764	4.150	Haschak Pehl		01-392	Box of Rain	Dip Critical	THP App. Rd.	N/A		0	0	0	1	0	\$165	5
Private Seasonal	1774	0.000	R&S	5/30/2006		ECP Not	Rock Surface	Medium	-	-	0	0	1	0	0	\$33	5
a rolling dip on a class 3 a small amount of outlet erosion approx. 2 yds. Treat: enhance rolling dip and rock outlet area																	
1.25	764	4.150	McCanl		Maintena	Maintenance	Dip Critical	THP App. Rd.	N/A		0	0	0	1	0	\$190	5
Private Seasonal	764	0.000	Unk	5/30/2006		ECP Not	Rock Surface	Medium	-	-	0	0	1	0	0	\$38	5
a rolling dip on a class 3 a small amount of outlet erosion approx. 2 yds. Treat: enhance rolling dip and rock surface and outlet area																	
1.2502	2312	0.000	Pehl	Pehl	02-443	Soil	No Problem	THP Maint Insp	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2312	0.000	Unk	12/9/2003		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Examined erosion control on roads used in summer of 2003.																	
1.2502	1138	0.500	Alden	Alden	Maintena	Maintenance	No Problem	Maintenance	N/A		0	0	0	0	0	\$0	0
Private Seasonal	1138	0.000	Unk	12/5/2000		ECP Not	Gate	Low	-	-	0	0	0	0	0	\$0	0

WV

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Lr	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
1.250245	2535	0.100	Haschak Pehl	Pehl	00-443	Shell	Surface Drainage	THP Mitigation	N/A		0	0	0	0	0	\$90	0
Private Seasonal	1059	0.000	Unk	10/15/2004		ECP Not	Excavate Soil	THP Med	-	-	0	0	0	0	0	\$0	0
at this location a culvert is dumping the overflow from the Sea Ranch water system storage tanks and it is running baphazardly down the hill and onto a skid trail that is being upgraded to a road. The solution is to extend the existing trench that exists at the outflow of the culvert further so that the water runs more directly towards the class II draw. Dig the trench and line it with rock all the way down to the class II.																	
Road/skid trail not upgraded or used.																	
1.25024515	2706	0.090	Pehl	Pehl	00-443	Shell	No Problem	THP Maint Insp	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2706	0.650	Unk	12/28/2005		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Wet weather road inspection. No problems.																	
1.2513	1212	0.300	Haschak Pehl	Pehl	00-443	Shell	Fill - Road	THP Mitigation	II		0	0	0	4	0	\$360	50
Private Seasonal	1212	0.000	AL	9/15/2004		ECP Not	Excavate Soil	THP Low	-	-	0	0	0	0	0	\$7	50
On outside edge of road between point A and class I water course there are several areas of failing fill. Remove this material only where larger trees do not exist and spread on inside edge of road. Maintain road passability. The LTO will install additional water bars along this road between point A and class II water course. Waterbars should not empty onto slide areas.																	
1.2518	1061	0.500	Haschak Pehl	Pehl	00-443	Shell	Temp Crossing	THP Mitigation	Spr.		0	0	0	0	0	\$50	0
Private Seasonal	1061	0.000	Unk	10/15/2004		ECP Not	Culv. Install	THP Med	-	-	0	0	1	0	0	\$0	0
Install a spring drain pipe at this location. Pipe can be left in at close of operations or the pipe can be removed and the road dipped out so that spring doesn't run down the road. If pipe is left in then a large waterbar should be placed downslope on the road so that spring leaves the road surface if pipe ever plugs.																	
Crossing not used.																	
1.2518	1062	0.520	Haschak Pehl	Pehl	00-443	Shell	Temp. Crossing	THP Mitigation	N/A		0	0	0	0	0	\$0	0
Private Seasonal	1062	0.000	Unk	10/15/2004		ECP Not	Dip Rolling	THP Med	-	-	0	0	0	0	0	\$0	0
A swale uphill of the road needs a rolling dip or large waterbar at this location at close of operations.																	
1.2518	1058	0.800	Haschak Pehl	Pehl	00-443	Shell	Temp. Crossing	THP New Con.	I		0	0	0	0	0	\$572	0
Private Seasonal	1058	0.000	Unk	10/15/2004		ECP Not	Culv. Install	THP Med	-	18"	40	0	1	0	0	\$0	0
Temporary crossing of a class II watercourse. Install temporary 18" culvert. Place geo-textile fabric in creek bottom and up both banks for twenty feet, followed by a layer of straw, then the culvert, then fill shall be place to act as a running surface for truck traffic. Prior to October 15th of the year following operations the fill shall be removed and the straw shall be place on the road for erosion control and the fabric shall be removed.																	
Crossing not used.																	
1.2526	2470	0.000	Alden	Pehl	00-391	Terrapin Station	Surface Drainage	THP... Not	N/A		0	0	0	0	0	\$0	929
Upgraded	2470	1.900	AL	9/5/2004		ECP Not	Tip and Dip	Medium	-	-	0	0	0	0	0	\$0	929
1.2526	2660	0.000	Pehl	Pehl	00-391	Terrapin Station	No Problem	THP Maint Insp	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2660	1.800	Unk	12/20/2005		ECP Not	No Action	See Comments	-	-	0	0	0	0	0	\$0	0
Wet weather road inspection. / Completion Inspection.																	
1.2526	2936	0.000	Pehl	Pehl	Maintena	Maintenance	Surface Drainage	Maintenance	N/A		0	0	0	0	0	\$0	1,616
Upgraded	2936	3.306	R&S	7/25/2005		ECP Not	Tip and Dip	Medium	-	-	0	0	0	0	0	\$0	1,616
1.2525	5718	0.000	Chidlaw	Chidlaw	Maintena	Maintenance	Other	Maintenance	N/A		0	0	0	0	0	\$1,162	0
Private Seasonal	5718	3.400		8/1/2011		ECP Not	Herbicides	Medium	-	-	0	0	0	30	0	\$0	0
1.2525	1105	0.110	Alden	Alden	Maintena	Maintenance	No Problem	Maintenance	N/A		0	0	0	0	0	\$0	0
Private Seasonal	1105	0.000	Unk	12/5/2000		ECP Not	Gate	Low	-	-	0	0	0	0	0	\$0	0

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds	
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds	
1.2526	823	0.159	McCanl	PeHl	SB-271-0	SB-271-00	Culv.-Ditch Relief	Maintenance	N/A		0	0	0	1	0	0	\$125	0
Private Seasonal	823	0.038	Unk	6/6/2006		ECP Not	Culv. Maintenance	Medium	18"	-	0	0	0	0	0	0	\$0	0
a 18' DRC , outlet covered with slash. Treat: clear outlet area.																		
1.2526	822	0.240	Haschak	PeHl	00-391	Terrapin Station	Culv.	THP Mitigation	Spr.		0	0	0	0	0	0	\$537	0
Private Seasonal	1053	0.000	ME	11/15/2004		ECP Not	Culv. Install	THP High	-	18"	40	0	0	0	0	0	\$0	0
install spring drain or rocked rolling dip (Installed 18" CMP)																		
1.2526	822	0.250	McCanl	PeHl	SB-271-J	SB-271-00	Culv.	Storm Proofing	II		0	0	0	2	0	0	\$353	20
Private Seasonal	822	0.090	Unk	6/6/2006		ECP Not	Culv. Maintenance	Medium	18"	-	0	0	0	0	0	20	\$175	2
18"cmp on a class 3 a 4' vertical drop 6' above inlet , a skid from right pushed small amount of fill up channel . Outlet slash covered with 10" DS. Treat: clear up channel 45" to stump , clear outlet area , add an additional 10' of DS , add CD.																		
1.2526	821	0.320	McCanl	PeHl	00-391	Terrapin Station	Other	Storm Proofing	N/A		0	0	0	0	1	0	\$155	0
Private Seasonal	821	0.000	R&S	6/13/2006		ECP Not	Dip Critical	Medium	-	-	0	0	1	0	0	0	\$0	0
small channel coming down outbank , no flow present time. Flows during peak rains. Treat: install rocked rolling dip , direct outlet towards small redwood clump.																		
1.2526	820	0.610	McCanl		SB-271-J	SB-271-00	Fill - Road	Storm Proofing	N/A		0	0	0	2	4	0	\$910	200
Private Seasonal	820	0.000	Unk	6/6/2006		ECP Not	Excavate Soil	Medium	-	-	0	0	2	2	200		\$8	120
potential roadfill failure extending through crossing #76. Treat: excavate and endhaul potential failure.																		
1.2526	819	0.650	McCanl	PeHl	00-391	Terrapin Station	Culv.	Maintenance	III		0	0	0	0	0	0	\$200	0
Private Seasonal	819	0.000	Unk	6/13/2006		ECP Not	Culv. Maintenance	Medium	18"	-	0	0	1	2	0	0	\$0	0
a 18" cmp on a seasonal class 3 , cmp OK but has shotgunned outlet and has Dip to left. Treat: add Critical Dip left hinge , add Downspout. Place energy dissipator below downspout. Remove perched fill adjacent to this culvert and place in stable location.																		
1.2526	818	0.700	Haschak	PeHl	00-391	Terrapin Station	Cut Bank Failure	THP Mitigation	N/A		0	0	0	0	0	0	\$0	0
Private Seasonal	1064	0.000	AL	13/15/2004		ECP Not	Excavate Soil	THP High	-	-	0	0	0	0	0	0	\$0	0
a cut bank failure is blocking an inside ditch and diverting water onto the road. Open up inside ditch so that water goes to the next culvert.																		
1.2526	1065	0.750	Haschak	PeHl	00-391	Terrapin Station	Surface Drainage	THP Mitigation	Spr.		0	0	0	0	0	0	\$0	0
Private Seasonal	1065	0.000	AL	10/15/2004		ECP Not	Waterbar	THP High	-	-	0	0	0	0	0	0	\$0	0
Relocate the existing waterbar 20 feet west of the present location.																		
1.2526	816	0.750	Haschak	PeHl	00-391	Terrapin Station	Fill - Road	THP App. Rd.	III		0	0	0	2	4	0	\$440	0
Private Seasonal	1083	0.760	AL	10/15/2004		ECP Not	Excavate Soil	Medium	-	-	0	0	0	0	0	0	\$0	0
fill failing along outside edge of road for 75 to 100 feet. Pull fill and place in stable location.																		
1.2526	817	0.750	Alden	Alden	Maintena	Maintenance	Culv.	Maintenance	III		0	0	0	0	0	0	\$0	0
Private Seasonal	5582	0.000	Unk	1/11/2011		ECP Not	No Action	Medium	-	-	0	0	0	0	0	0	\$0	0
Landslide from road edge to river. Probably occurred during big storm 12-29-10. 20,000 CFS at the Hot Spot																		
1.2526	816	0.810	McCanl		SB-271-0	SB-271-00	Fill - Road	Storm Proofing	N/A		0	0	0	3	0	0	\$775	267
Private Seasonal	816	0.000	Unk	10/15/2004		ECP Not	Excavate Soil	Medium	-	-	0	0	3	2	267		\$3	240
potential roadfill failure on slopes of 90% 30' to 60' to class 3 treat: excavate start to end , push spoils to left 75' .																		
1.2526	1067	0.870	Haschak	PeHl	00-391	Terrapin Station	Culv.	THP Mitigation	III		0	0	0	3	4	0	\$645	0
Private Seasonal	1067	0.000	R&S	6/13/2006		ECP Not	Other	Medium	-	-	0	0	0	0	0	0	\$0	0
The outflow of a culvert is emptying onto an old skid trail that looks like a class III and causing erosion. The LTO will place a rocked rolling dip 40 feet east of the existing waterbar and rock armor the culvert outlet at this crossing. Fill shall be removed for the outside edge of the road and a rocked outfall shall be installed for 6 feet down the slope to native ground.																		

0/0

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
1.2526	812	1.120	McCarl	Pehl	01-392	Box of Rain	Dip Rolling	THP App. Rd.	II	0	0	0	0	1	0	\$65	0
Private Seasonal	812	0.000	AL	9/15/2004		ECP Not	Rock Surface	Medium	-	-	0	0	1	0	0	\$0	0
a swale draining seasonal class 3 across road in mild dip , minor surface erosion less than 2 yds. Treat: construct a rocked rolling dip at this location																	
1.2526	810	1.310	McCarl	Martena		Maintenance	Culv.	THP App. Rd.	III	0	0	0	1	0	0	\$225	0
Private Seasonal	810	0.000	Unk	9/15/2004		ECP Not	Culv. Maintenance	Medium	-	-	0	0	1	0	0	\$0	0
a 24" on a class 3 , well installed to grade. Slash and debris cover outlet treat: clear inlet and outlet , inslope road over crossing , add rolling dip 65' to left. Clean ditch to right																	
1.2526	810	1.310	Haschak	Pehl	01-392	Box of Rain	Culv.	THP App. Rd.	II	0	0	0	1	0	0	\$90	0
Private Seasonal	1787	0.000	AL	9/15/2004		ECP Not	Culv. Maintenance	Medium	-	-	0	0	1	0	0	\$0	0
a 24" on a class 3 , well installed to grade. Slash and debris cover outlet treat: clear inlet and outlet , inslope road over crossing , add rolling dip 65' to left. Clean ditch to right																	
1.2526	809	1.330	Haschak	Pehl	01-392	Box of Rain	Other	THP App. Rd.	Spr.	0	0	0	3	0	0	\$742	0
Private Seasonal	1786	0.000	AL	9/15/2004		ECP Not	Dip Rolling	Medium	-	18"	40	0	3	0	0	\$0	0
flow emerging from cutbank from: swale , appears to sub-surface class 3 flow visible in sink above cutbank. Flow currently collects in inside ditch then flowing right where it is absorbed into ditch. Treat: add rolling dip																	
1.2526	1761	1.550	Haschak	Pehl	01-392	Box of Rain	Surface Drainage	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	1761	0.000	R&S	6/13/2006		ECP Not	Dip Rolling	THP Low	-	-	0	0	0	0	0	\$0	0
install rocked rolling dip																	
1.2526	2687	1.800	Pehl	Pehl	01-392	Box of Rain	No Problem	THP Maint. Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2687	3.300	Unk	12/28/2005		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Wet weather inspection. Pipes okay. Everything very wet after 5" of rain in previous 24 hours.																	
1.2526	799	1.890	McCarl		SB-271-0	SB-271-00	Fill - Road	Storm Proofing	N/A	0	0	0	5	10	0	\$2,175	433
Private Seasonal	799	0.000	Unk	9/15/2004		ECP Not	Excavate Soil	High	-	-	0	0	5	3	433	\$6	346
potential roadfill failure on slopes of 90% 40' to 90' to class 2 below. Trees present along OBR which will slow prod. Rate. Treat: excavate start to end leave all trees, endhaul to left to spoil site.																	
1.2526	799	1.900	Haschak	Pehl	01-392	Box of Rain	Fill - Road	THP App. Rd.	N/A	0	0	0	2	0	0	\$180	0
Private Seasonal	1867	0.000	AL	9/15/2004		ECP Not	Excavate Soil	Medium	-	-	0	0	0	0	0	\$0	0
The fill on the outside edge of the road shall be pulled back and stabilized. Slash or mulch shall be placed on the earthen material below the fill failure to minimize any potential delivery. The area will be planted with conifers.																	
1.2526	798	1.970	Haschak	Pehl	01-392	Box of Rain	Culv.	THP App. Rd.	II	0	0	0	4	8	0	\$880	296
Private Seasonal	798	0.000	AL	9/15/2004		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$3	296
a 36" cmp on a class 2 . Cmp OK but stream is headcutting 30' above cmp. Stream appears to have ponded sediment for approx. 250' above crossing , but well vegetated . Treat: rock armour headcut with rip-rap and plant conifer trees in the area adjacent to the channel above the road up to the existing tree line.																	
1.2526	798	1.980	Haschak	Pehl	01-392	Box of Rain	Surface Drainage	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	1861	0.000	R&S	6/13/2006		ECP Not	Dip Rolling	High	-	-	0	0	1	0	0	\$0	0
Install a rocked rolling dip 50 feet south of road point 798 at low spot where outside edge of the road is eroding.																	
1.2526	797	2.020	Haschak	Pehl	01-392	Box of Rain	Culv.	THP App. Rd.	III	0	0	0	0	0	0	\$0	56
Private Seasonal	1799	0.000	R&S	5/30/2006		ECP Not	Other	High	18'	-	0	0	0	2	0	\$0	56
add an energy dissipator below the downspout of the existing culvet. Rock shall be of sufficient size so as to not be washed away by high flows and shall cover sufficient area to stabilize the channel																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	S/FSD	FSD Yds
1.2526	794	2.259	McCarl		Maintena	Maintenance	Dip Critical	THP App. Rd.	III		0	0	0	0	0	\$190	0
Private Seasonal	794	0.000	Unk	9/15/2004		ECP Not	Rock Surface	Medium	-	-	0	0	1	0	0	\$0	0
a rolling dip draining a seasonal class 3 swale minimal erosion , treat: rock rolling dip																	
1.2526	784	2.250	Hasenak Peñi		01-392	Box of Rain	Dip Critical	THP App. Rd.	III		0	0	0	0	0	\$65	0
Private Seasonal	1784	0.000	AL	9/15/2004		ECP Not	Rock Surface	Medium	-	-	0	0	1	0	0	\$0	0
a rolling dip draining a seasonal class 3 swale minimal erosion , maintain rolling dip																	
1.2526	793	2.310	Haschak Pehl		01-392	Box of Rain	Culv.	THP App. Rd.	N/A		0	0	0	0	0	\$90	40
Private Seasonal	1783	0.000	AL	9/15/2004		ECP Not	Culv. Maintenance	Medium	18"	-	0	0	2	2	40	\$2	40
a 18" cmp on seasonal class 3 no flow at present time , but flows during storm events. cmp also has 10' DS , add an energy dissipator below the downspout of the existing culvet and critical dip, also inslope road over crossing.																	
1.2526	793	2.310	McCarl		Maintena	Maintenance	Culv.	THP App. Rd.	N/A		0	0	0	1	0	\$425	40
Private Seasonal	793	0.000	Unk	9/15/2004		ECP Not	Culv. Maintenance	Medium	-	-	0	0	2	2	40	\$11	40
a 18" cmp on seasonal class 3 no flow at present time , but flows during storm events. Cmp has D P to left , cmp also has 10' DS , but below DS a 5' plunge and a gully an old skid. Treat: excavate fill on left and right banks below outlet , add 20' DS and C D, also inslope road over crossing.																	
1.2526	792	2.350	Haschak Pehl		01-392	Box of Rain	Other	THP App. Rd	III		0	0	0	2	0	\$916	10
Private Seasonal	1782	0.000	AL	9/15/2004		ECP Not	Culv. Install	High	-	24"	40	0	0	4	0	\$92	10
a well defined class 3 swale above and below road , no draining structure present. Shows evidence erosion of during major storm event. Flow goes down inside ditch 50' to waterbar , across road leaving a gulling over outboard fill . Treat: install 24 " cmp at this location with critical dip and downspout if necessary.																	
1.2526	792	2.350	McCarl		Maintena	Maintenance	Other	THP App. Rd.	III		0	0	0	4	0	\$1,836	10
Private Seasonal	792	0.000	Unk	9/15/2004		ECP Not	Culv. Install	High	-	24	40	0	4	4	50	\$184	10
a well defined class 3 swale above and below road , no draining structure present. Shows evidence of during major storm event. Flow goes down inside ditch 50' to waterbar , across road leaving a gulling over OBF , then drains to site #52 class 3 . Treat: install 24 " cmp at this location with CD.																	
1.2526	789	2.510	Haschak Pehl		01-392	Box of Rain	Dip Critical	THP App. Rd.	N/A		0	0	0	0	0	\$65	3
Private Seasonal	1781	0.000	AL	9/15/2004		ECP Not	Rock Surface	Medium	-	-	0	0	2	0	0	\$22	3
a rolling dip draining spring and swale minor outlet erosion at outlet less than 5 yds. Treat : enhance dip and rock																	
1.2526	789	2.510	McCarl		Maintena	Maintenance	Dip Critical	THP App. Rd.	N/A		0	0	0	0	1	\$293	3
Private Seasonal	789	0.000	Unk	9/15/2004		ECP Not	Rock Surface	Medium	-	-	0	0	2	0	0	\$97	3
a rolling dip draining spring and swale minor outlet erosion at outlet less than 5 yds. Treat : inhance dip and rock																	
1.2526	788	2.620	Haschak Pehl		01-392	Box of Rain	Cut Bank Failure	THP App. Rd.	N/A		0	0	0	2	2	\$560	0
Private Seasonal	1780	0.000	R&S	7/4/2006		ECP Not	Excavate Soil	Medium	-	-	0	0	2	0	133	\$0	0
cutbank failure plugging inside ditch and 18" ditch relief culvert that drains springs from either side. Ditch relief culvert is still functioning at this time though inlet can't be found. Treat: excavate failure and clear inlet and ditch.																	
1.2526	788	2.620	McCarl		Maintena	Maintenance	Cut Bank Failure	THP App. Rd.	N/A		0	0	0	2	2	\$630	0
Private Seasonal	788	0.000	Unk	7/4/2006		ECP Not	Excavate Soil	Medium	-	-	0	0	2	0	133	\$0	0
cutbank failure plugging inside ditch and 18" DRC. That drains springs from either side. DRC is still functioning at this time though inlet can't be found. Treat: excavate failure endhaul to right to landing clear DRC.																	
1.2526	787	2.720	Haschak Pehl		01-392	Box of Rain	Dip Critical	THP App. Rd.	III		0	0	0	0	0	\$1,880	65
Private Seasonal	1779	0.000	R&S	5/30/2006		ECP Not	Culv. Install	Medium	-	36"	40	0	0	0	0	\$29	65
rolling dip over hinge line. Excavate road fill below crossing at this site, lay back at 2:1 ratio																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
1.2526	785	2.780	Haschak	Pehl	01-392	Box of Rain	Dip Critical	THP App. Rd.	III		0	0	0	1	0	\$165	0
Private Seasonal	1778	0.000	R&S	5/30/2006		ECP Not	Rock Surface	Medium	-	-	0	0	1	0	0	\$0	0
a rolling dip located at seasonal class 3 very little surface erosion occurring maintain rolling dip.																	
1.2526	785	2.780	McCanl		Maintena	Maintenance	Dip Critical	THP App. Rd.	III		0	0	0	1	0	\$190	0
Private Seasonal	785	0.000	Unk	5/30/2006		ECP Not	Rock Surface	Medium	-	-	0	0	1	0	0	\$0	0
a rolling dip located at seasonal class 3 very little surface erosion occurring treat: rock rolling dip.																	
1.2526	779	3.300	Haschak	Pehl	01-392	Box of Rain	Other	THP App. Rd.	II		0	0	0	2	0	\$220	89
Private Seasonal	1792	0.000	AL	10/15/2004		ECP Not	Culv. Install	High	24"	48"	0	0	2	0	20	\$2	89
rock inlet and outlet add critical dip and rolling dip to right up road 45' where shallow dip is present. Above inlet on left bank 20 yds of spoil from skid is perched over inlet. Remove this 20 yds add critical dip. Remove eroded perch fill that is north and south of culvert on outside edge of road and regrade surface of road where it is gullyng.																	
1.252654	2685	0.000	Pehl	Pehl	01-392	Box of Rain	No Problem	THP Maint Insp	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2685	0.400	Unk	12/28/2005		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Wet weather inspection. Pipes okay. Everything very wet after 5" of rain in previous 24 hours.																	
1.252654	2684	0.000	Pehl	Pehl	00-391	Terrapin Station	No Problem	THP Maint Insp	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2684	0.400	Unk	12/28/2005		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Wet weather inspection. Pipes okay. Everything very wet after 5" of rain in previous 24 hours.																	
1.2541	2682	0.000	Pehl	Pehl	00-391	Terrapin Station	No Problem	THP Maint Insp	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2682	0.400	Unk	12/28/2005		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Wet weather inspection. Pipes okay. Everything very wet after 5" of rain in previous 24 hours.																	
1.2541	2683	0.000	Pehl	Pehl	01-392	Box of Rain	No Problem	THP Maint Insp	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2683	0.400	Unk	12/28/2005		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Wet weather inspection. Pipes okay. Everything very wet after 5" of rain in previous 24 hours.																	
1.2541	2942	0.000	Pehl	Pehl	Maintena	Maintenance	Surface Drainage	Maintenance	N/A		0	0	0	0	0	\$0	259
Upgraded	2942	0.529	R&S	7/25/2006		ECP Not	Tip and Dip	Medium	-	-	0	0	0	0	0	\$0	259
1.2541	2524	0.000	Haschak	Pehl	05-146	Moss	Surface Drainage	Maintenance	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2524	0.300	AL	10/13/2006		ECP Not	Dip Rolling	THP Low	-	-	0	0	0	0	0	\$0	0
Weepty inside ditch. Maintain and enhance rolling dips and waterbars along this section of road.																	
1.2541	2525	0.460	Haschak	Pehl	05-146	Moss	Temp. Crossing	Maintenance	III		0	0	0	3	0	\$285	0
Private Seasonal	2525	0.460	AL	10/13/2005		ECP Not	Temp. Crossing	THP Low	-	-	0	0	0	0	0	\$0	0
Install temporary pipe 6" by 30' if wet at time of operations. Pull all material down to grade, slope back banks, seed and mulch.																	
1.2582	1865	0.000	Haschak	Pehl	01-392	Box of Rain	Surface Drainage	THP App. Rd.	N/A		0	0	0	5	0	\$575	0
Private Seasonal	1865	0.600	R&S	6/13/2006		ECP Not	Excavate Soil	Medium	-	-	0	0	5	0	0	\$0	0
This road segment and segment 1000 have thru cut areas. Breach the berm in these areas and dig trenches out to where the water will drain (at least every 200 feet). Waterbars/rolling dips and the associated drainage ditches will be created by pushing material toward the road and road can be used for spoils from here and other locations on the property in order to raise the road grade.																	
1.2582	2941	0.000	Pehl	Pehl	Maintena	Maintenance	Surface Drainage	Maintenance	N/A		0	0	0	0	0	\$0	196
Upgraded	2941	0.400	R&S	7/25/2006		ECP Not	Tip and Dip	Medium	-	-	0	0	0	0	0	\$0	196
1.2582	2526	0.000	Haschak	Pehl	05-146	Moss	Surface Drainage	Maintenance	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2526	0.400	R&S	9/17/2007		ECP Not	Waterbar	THP Low	-	-	0	0	0	0	0	\$0	0
Maintain and enhance rolling dips and waterbars along this section of road.																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
1.2582	5727	0.900	Chidlaw	Chidlaw	Maintena	Maintenance	Other	Maintenance	N/A	0	0	0	0	0	0	\$163	0
Private Seasonal	5727	0.450		8/1/2011		ECP Not	Herbicides	Medium	-	-	0	0	0	4	0	\$0	0
1.63	5726	1.750	Chidlaw	Chidlaw	Maintena	Maintenance	Other	Maintenance	N/A	0	0	0	0	0	0	\$200	0
Private Seasonal	5726	2.270		8/1/2011		ECP Not	Herbicides	Medium	-	-	0	0	0	5	0	\$0	0
1.657	5725	0.000	Chidlaw	Chidlaw	Maintena	Maintenance	Other	Maintenance	N/A	0	0	0	0	0	0	\$57	0
Private Seasonal	5725	0.150		8/1/2011		ECP Not	Herbicides	Medium	-	-	0	0	0	2	0	\$0	0
1.57	5724	1.350	Chidlaw	Chidlaw	Maintena	Maintenance	Other	Maintenance	N/A	0	0	0	0	0	0	\$64	0
Private Seasonal	5724	1.520		8/1/2011		ECP Not	Herbicides	Medium	-	-	0	0	0	2	0	\$0	0
40.19	2674	0.000	Pehl	Pehl	99-445	Flats South	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2674	3.750	Unk	12/25/2005		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Winter inspection. No problems.																	
40.1961	2691	0.000	Pehl	Pehl	01-392	Box of Rain	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2691	3.200	Unk	12/28/2005		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Wet weather inspection. Pipes okay. Everything very wet after 5" of rain in previous 24 hours.																	
40.196104	5722	0.750	Chidlaw	Chidlaw	Maintena	Maintenance	Other	Maintenance	N/A	0	0	0	0	0	0	\$230	0
Private Seasonal	5722	1.350		8/1/2011		ECP Not	Herbicides	Medium	-	-	0	0	0	6	0	\$0	0
40.19610431	2690	0.000	Pehl	Pehl	01-392	Box of Rain	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2690	0.250	Unk	12/28/2005		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Wet weather inspection. Pipes okay. Everything very wet after 5" of rain in previous 24 hours.																	
40.19610421	5721	0.000	Chidlaw	Chidlaw	Maintena	Maintenance	Other	Maintenance	N/A	0	0	0	0	0	0	\$95	0
Private Seasonal	5721	0.250		8/1/2011		ECP Not	Herbicides	Medium	-	-	0	0	0	3	0	\$0	0
40.19610435	2689	0.000	Pehl	Pehl	01-392	Box of Rain	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2689	1.000	Unk	12/28/2005		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Wet weather inspection. Pipes okay. Everything very wet after 5" of rain in previous 24 hours.																	
40.19610436	5720	0.000	Chidlaw	Chidlaw	Maintena	Maintenance	Other	Maintenance	N/A	0	0	0	0	0	0	\$406	0
Private Seasonal	5720	1.040		8/1/2011		ECP Not	Herbicides	Medium	-	-	0	0	0	11	0	\$0	0
40.19610483	5723	0.000	Chidlaw	Chidlaw	Maintena	Maintenance	Other	Maintenance	N/A	0	0	0	0	0	0	\$102	0
Private Seasonal	5723	0.270		8/1/2011		ECP Not	Herbicides	Medium	-	-	0	0	0	3	0	\$0	0
40.196933	29	0.000	Chidlaw	Chidlaw	Maintena	Maintenance	Cut Bank Failure	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	29	0.000	TT	10/20/1998		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
Opened road for spray crew																	
40.196933	16	0.000	Kelly	Kelly	95-485	North Stanley	No Problem	THP New Con	N/A	0	0	0	0	0	0	\$1,440	0
Private Seasonal	16	0.000	TT	9/14/1998		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
40.196933	28	0.500	Chidlaw	Chidlaw	Maintena	Maintenance	Cut Bank Failure	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	28	0.000	TT	10/20/1998		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
Opened road for spray crew																	
40.196953	27	0.000	Chidlaw	Chidlaw	Maintena	Maintenance	Cut Bank Failure	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	27	0.000	TT	10/20/1998		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
Opened road for spray crew																	

Road #	GIS#	Mile	Plan	Final	TH-P#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
60.02	5523	0.000	Alden	Alden	Maintena	Maintenance	Surface Drainage	Maintenance	N/A	0	0	0	0	8	8	\$2,380	122
Storm Proofed	5523	0.250	Unk	8/18/2010		ECP Not	Rock Surface	Medium	-	-	0	0	0	0	0	\$19	122
Spread, graded and compacted road shavings.																	
60.02	1126	0.400	Alden	Alden	Maintena	Maintenance	No Problem	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	1126	0.000	Unk	12/8/2000		ECP Not	Gate	Low	-	-	0	0	0	0	0	\$0	0
60.025	5524	0.000	Alden	Alden	Maintena	Maintenance	Surface Drainage	Maintenance	N/A	0	0	0	0	2	0	\$156	3
Private Seasonal	5524	0.030	R&S	8/18/2010		ECP Not	Rock Surface	Medium	-	-	0	0	0	0	0	\$0	0
Spread, graded and compacted road shavings.																	
60.0904	5794	0.000	Pehl	Pehl	08-086	Belladonna	Surface Drainage	THP App. Rd.	N/A	0	0	0	16	0	0	\$3,918	230
Storm Proofed	5794	0.470	R&S	6/15/2012		ECP Not	Tip and Dip	Medium	-	-	0	0	13	0	0	\$17	230
Brushed road, pulled berms, tipped and dipped.																	
60.0904	1125	0.010	Alden	Alden	Maintena	Maintenance	No Problem	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	1125	0.000	Unk	12/8/2000		ECP Not	Gate	Low	-	-	0	0	0	0	0	\$0	0
60.0904	2854	0.160	Pehl	Pehl	08-086	Belladonna	Surface Drainage	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2854	0.000	R&S	6/18/2012		ECP Not	Dip Rolling	THP Low	-	-	0	0	0	0	0	\$0	0
Install rolling dip.																	
60.0904	2853	0.200	Pehl	Pehl	08-086	Belladonna	Surface Drainage	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2853	0.000	R&S	6/18/2012		ECP Not	Dip Rolling	THP Low	-	-	0	0	0	0	0	\$0	0
Install rolling dip.																	
60.0904	2852	0.250	Pehl	Pehl	08-086	Belladonna	Surface Drainage	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2852	0.000	R&S	6/18/2012		ECP Not	Dip Rolling	THP Low	-	-	0	0	0	0	0	\$0	0
Install rolling dip.																	
60.0904	2851	0.300	Pehl	Pehl	08-086	Belladonna	Surface Drainage	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2851	0.000	R&S	6/18/2012		ECP Not	Dip Rolling	THP Low	-	-	0	0	0	0	0	\$0	0
Install rolling dip.																	
60.0904	5527	0.530	Pehl	Pehl	08-086	Belladonna	Surface Drainage	Storm Proofing	N/A	0	0	0	0	0	0	\$0	49
Abandoned Fixed	5527	0.630	R&S	8/25/2010		ECP Not	Tip and Dip	Medium	-	-	0	0	0	0	0	\$0	49
60.0904	2850	0.620	Pehl	Pehl	08-086	Belladonna	Fill - Road	THP App. Rd.	N/A	0	0	0	4	0	0	\$865	100
Private Seasonal	2850	0.000	R&S	9/9/2010		Waiver	Excavate Sol.	THP Low	-	-	0	0	4	0	100	\$9	100
Pull unstable portion of road edge. Use material to outslope road.																	
60.0904	5528	0.630	Pehl	Pehl	08-086	Belladonna	Surface Drainage	Storm Proofing	N/A	0	0	0	0	0	0	\$0	264
Storm Proofed	5528	1.170	R&S	8/25/2010		ECP Not	Tip and Dip	Medium	-	-	0	0	0	0	0	\$0	264
60.0904	2849	0.670	Pehl	Pehl	08-086	Belladonna	Other	THP App. Rd.	II	0	0	0	15	7	0	\$3,072	370
Private Seasonal	2849	0.000	R&S	8/25/2010		Waiver	Remove Crossing	THP Low	-	-	0	0	8	1	200	\$8	370
Water flowing across road. No evidence of a prepared crossing. Excavate road fill to natural grade, lay banks back at a stable angle.																	
60.0904	2848	0.571	Pehl	Pehl	08-086	Belladonna	Other	THP App. Rd.	II	0	0	0	30	26	0	\$6,451	1,000
Private Seasonal	2848	0.000	R&S	8/31/2010		Waiver	Remove Crossing	THP Low	-	-	0	0	0	1	600	\$6	1,000

Road crosses watercourse with no evidence of a prepared crossing. Stream has down cut through road surface, leaving steep banks that are continuing to adjust. Remove fill material from crossing, lay banks back to a stable angle, and block crossing to access to cars and trucks with log or large rocks.

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
60.0904	2847	0.700	Pehl	Pehl	08-086	Belladonna	Surface Drainage	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2847	0.000	R&S	9/9/2010		ECP Not	Dip Rolling	THP Low	-	-	0	0	0	0	0	\$0	0
Road receives drainage from road above. Install rolling dip.																	
60.0904	2845	0.720	Pehl	Pehl	08-086	Belladonna	Fill - Road	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2845	0.000	R&S	9/9/2010		ECP Not	Excavate Soil	THP Low	-	-	0	0	0	0	0	\$0	0
Perched fill has broken loose from road edge. Excavate road edge. Use material to outslope road.																	
60.0904	2845	0.750	Pehl	Pehl	08-086	Belladonna	Surface Drainage	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2845	0.000	R&S	9/9/2010		ECP Not	Dip Rolling	THP Low	-	-	0	0	0	0	0	\$0	0
Install rolling dip.																	
60.0904	2834	0.760	Pehl	Pehl	08-086	Belladonna	Surface Drainage	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2834	0.000	R&S	9/9/2010		ECP Not	Dip Rolling	THP Low	-	-	0	0	0	0	0	\$0	0
Remove outside berm and pile of earth, and widen relief of existing dip.																	
60.0904	2833	0.810	Pehl	Pehl	08-086	Belladonna	Culv.-Ditch Relief	THP App. Rd.	N/A	0	0	0	2	0	0	\$337	0
Private Seasonal	2833	0.000	R&S	8/20/2010		ECP Not	Culv. Maintenance	THP Low	18"	-	0	0	1	0	0	\$0	0
Existing 18" culvert. Clean inlet. Remove outside berms and outslope road in vicinity.																	
60.0904	2304	0.850	Hagans	Hagans	271 LNF	LNF P01639405A	Culv.	Storm Proofing	III	0	0	0	7	0	0	\$3,785	0
Private Seasonal	2304	0.000	GE	10/2/2003		ECP Not	Culv. Replace	Medium	18"	42	60	0	2	2	0	\$0	0
Replace culvert																	
60.0904	2304	0.850	Pehl	Pehl	Maintena	Maintenance	Culv.	THP App. Rd.	II	0	0	0	0	0	0	\$1,105	0
Private Seasonal	2832	0.000	R&S	7/4/2007		ECP Not	Culv. Install	Medium	-	24"	60	0	0	0	0	\$0	0
Watercourse diverted into ditch. Install 24" culvert at natural grade with a non-diversion dip. Excavate above inlet to remove stored sediment.																	
60.0904	2831	0.870	Pehl	Pehl	08-086	Belladonna	Culv.-Ditch Relief	THP App. Rd.	N/A	0	0	0	2	0	0	\$433	0
Private Seasonal	2831	0.000	R&S	8/20/2010		ECP Not	Culv. Maintenance	THP Low	-	-	0	0	2	0	0	\$0	0
Existing 18" culvert. Plugged inlet. Clean inlet. Maintain outslope in this area.																	
60.0904	1829	0.920	Alden	Alden	Maintena	Maintenance	No Problem	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	1829	0.000	Uck	10/15/2001		ECP Not	Rock Pit	Low	-	-	0	0	0	0	0	\$0	0
Old return road pit																	
60.0904	2830	0.920	Pehl	Pehl	08-086	Belladonna	Culv.-Ditch Relief	THP App. Rd.	N/A	0	0	0	2	0	0	\$433	0
Private Seasonal	2830	0.000	R&S	8/20/2010		ECP Not	Culv. Maintenance	THP Low	18"	-	0	0	2	0	0	\$0	0
Existing 18" culvert. Clean inlet.																	
60.0904	2829	0.940	Pehl	Pehl	08-086	Belladonna	Culv.-Ditch Relief	THP App. Rd.	N/A	0	0	0	2	0	0	\$468	0
Private Seasonal	2829	0.000	R&S	8/20/2010		ECP Not	Culv. Maintenance	THP Low	18"	-	0	0	2	1	0	\$0	0
Existing 18" culvert. Clean inlet. Maintain outslope in this area.																	
60.0904	2828	0.950	Pehl	Pehl	08-086	Belladonna	Cut Bank Failure	THP App. Rd.	N/A	0	0	0	8	0	0	\$1,580	0
Private Seasonal	2828	0.000	R&S	8/23/2010		ECP Not	Excavate Soil	THP Low	-	-	0	0	6	3	0	\$0	0
Install rocked rolling dip to cross drain road at this location.																	
60.090402	5912	0.000	Alden	Alden	Maintena	Maintenance	No Problem	Assessment	N/A	0	0	0	0	0	0	\$0	0
Not Connected	5912	0.110	Uck	2/26/2013		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0

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Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds	
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds	
60.0916	5913	0.000	Alden	Alden	Maintena	Maintenance	No Problem	Assessment	N/A		0	0	0	0	0	\$0	0	
Not Connected	5913	0.070	Urk	2/26/2013		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0	
60.0921	1129	0.010	Alden	Alden	Maintena	Maintenance	No Problem	Maintenance	N/A		0	0	0	0	0	\$0	0	
Private Seasonal	1129	0.000	Unk	12/5/2000		ECP Not	Gate	Low	-	-	0	0	0	0	0	\$0	0	
60.0924	1095	0.020	Alden	Alden	Maintena	Maintenance	No Problem	Maintenance	N/A		0	0	0	0	0	\$0	0	
Private Seasonal	1095	0.000	Unk	12/5/2000		ECP Not	Gate	Low	-	-	0	0	0	0	0	\$0	0	
60.0924	5846	0.200	Chidlaw	Chidlaw	Maintena	Maintenance	Other	Maintenance	N/A		0	0	0	0	0	\$51	0	
Private Seasonal	5846	0.300		8/1/2012		ECP Not	Herbicides	Medium	-	-	0	0	0	0	0	\$0	0	
60.0924	2947	0.360	Pehl	Pehl	Maintena	Maintenance	Surface Drainage	Maintenance	N/A		0	0	0	0	0	\$0	313	
Storm Proofed	2947	1.000	ME	7/25/2006		ECP Not	Tip and Dip	Medium	-	-	0	0	1	3	0	\$0	313	
60.0924	687	0.500	Kelly	Kelly	Maintena	Maintenance	Culv.-Ditch Relief	Maintenance	N/A		0	0	0	0	0	\$0	0	
Private Seasonal	687	0.000	Unk	2/15/2000		ECP Not	No Action	Medium	18"	-	0	0	0	0	0	\$0	0	
60.0924	1097	0.500	Alden	Alden	Maintena	Maintenance	No Problem	Maintenance	N/A		0	0	0	0	0	\$0	0	
Private Seasonal	1097	0.000	Unk	12/5/2000		ECP Not	Gate	Low	-	-	0	0	0	0	0	\$0	0	
60.0924	2844	0.520	Pehl	Pehl	08-086	Belladonna	Culv.	THP App. Rd.	III		0	30	0	10	4	1	\$4,632	100
Private Seasonal	2844	0.000	PW	10/11/2012		Waiver	Culv. Replace	THP Low	18"	24"	60	0	8	0	100	\$46	100	
Existing 18" culvert. Bottom is rusted out. Replace with 24" culvert. Install at natural grade with rock dissipater at outlet.																		
60.0924	2843	0.570	Pehl	Pehl	08-086	Belladonna	Surface Drainage	THP App. Rd.	N/A		0	0	0	2	1	0	\$511	0
Private Seasonal	2843	0.000	R&S	9/9/2010		ECP Not	Dip Rolling	THP Low	-	-	0	0	2	0	0	\$0	0	
Existing dip with rock outfall. Enhance dip function by outsloping road surface from dip to gate. This will require removing or reducing pile on the outside edge of road, intent is to make sure the traveled center section of road is higher than the outside edge and does not collect water.																		
60.0924	662	0.600	Heath	Pehl	08-460	Sugarcreek	Gully	THP App. Rd.	II		0	0	0	0	0	\$250	0	
Private Seasonal	662	0.000	BB	1/20/2003		ECP Not	Other	THP Low	-	-	0	0	0	0	0	\$0	0	
Road surface drainage has caused a small gully 2 feet wide x 4 feet long x 1 foot deep above culvert outlet and into class II watercourse. Corrective action is to place rip-rap rock into gully and around top of culvert outlet to road edge. Construct berm around top of fill and road edge. For the culvert inlet, place rip-rap around culvert to top of fill at road edge. Construct rolling dip uphill to collect drainage that has caused the problem. Repair existing trash rack.																		
60.0924	652	0.600	Hagens	Hagens	271 LNF	LNF P01030405A	Culv.	Storm Proofing	II		0	0	0	5	0	0	\$2,405	0
Storm Proofed	2305	0.000	GE	10/21/2003		ECP Not	Culv. Replace	Medium	18"	36"	40	0	3	0	0	\$0	0	
60.0924	2842	0.600	Pehl	Pehl	08-086	Belladonna	Dip Critical	THP App. Rd.	II		0	0	0	2	0	0	\$646	0
Private Seasonal	2842	0.000	PW	10/11/2012		ECP Not	Dip Critical	THP Low	36"	-	0	0	2	0	0	\$0	0	
Existing 36" culvert. Leave pipe "as is". Move critical dip down grade (south) 20 feet to old dip location. Excavate road edge approximately 40 feet upgrade (east) to allow outsloped road surface to drain off road before reaching crossing and fill slope.																		
60.0924	2841	0.630	Pehl	Pehl	08-086	Belladonna	Culv.-Ditch Relief	THP App. Rd.	N/A		0	0	0	0	0	\$0	0	
Private Seasonal	2841	0.000	R&S	9/9/2010		Waiver	Culv. Replace	THP Low	18"	18"	0	0	0	0	0	\$0	0	
Existing 18" culvert cross drains bank seep and ditch. Pipe is shotgunned. Install new 18" pipe. Pipe should be installed at a 45 degree angle to road centerline. Armor pipe outlet with rip rap or install downspout.																		
60.0924	2840	0.650	Pehl	Pehl	08-086	Belladonna	Fill - Road	THP App. Rd.	N/A		0	0	0	0	0	\$0	0	
Private Seasonal	2840	0.000	R&S	9/9/2010		ECP Not	Excavate Soil	THP Low	-	-	0	0	0	0	0	\$0	0	
Excavate road edge to improve drainage/outslope. BRP34 to BRP35.																		

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
60.0924	2839	0.680	Pehl	Pehl	08-086	Belladonna	Fill - Road	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2839	0.000	R&S	9/9/2010		ECP Not	Excavate Soil	THP Low	-	-	0	0	0	0	0	\$0	0
Excavate road edge to improve drainage/outslope. BRP34 to BRP35.																	
60.0924	2838	0.790	Pehl	Pehl	08-086	Belladonna	Fill - Road	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2838	0.000	R&S	9/9/2010		ECP Not	Excavate Soil	THP Low	-	-	0	0	0	0	0	\$0	0
Excavate road edge to improve drainage/outslope. BRP32 to BRP33.																	
60.0924	2837	0.760	Pehl	Pehl	08-086	Belladonna	Fill - Road	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2837	0.000	R&S	9/9/2010		ECP Not	Excavate Soil	THP Low	-	-	0	0	0	0	0	\$0	0
Excavate road edge to improve drainage/outslope. BRP32 to BRP33.																	
60.0924	688	0.780	Kelly	Kelly	Maintena	Maintenance	Culv.-Ditch Relief	Maintenance	N/A		0	0	0	0	0	\$0	0
Private Seasonal	688	0.000	Unk	2/15/2000		ECP Not	No Action	Medium	18"	-	0	0	0	0	0	\$0	0
60.0924	689	0.880	Kelly	Kelly	Maintena	Maintenance	Culv.-Ditch Relief	Maintenance	N/A		0	0	0	0	0	\$0	0
Private Seasonal	689	0.000	Unk	2/15/2000		ECP Not	No Action	Medium	24"	-	0	0	0	0	0	\$0	0
60.0924	2836	0.900	Pehl	Pehl	08-086	Belladonna	Culv.-Ditch Relief	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2836	0.000	R&S	9/9/2010		ECP Not	Culv. Maintenance	THP Low	-	-	0	0	0	0	0	\$0	0
Existing 18" culvert. Clean inlet, otherwise leave "as is"																	
60.0924	2835	0.940	Pehl	Pehl	08-086	Belladonna	Surface Drainage	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2835	0.000	R&S	9/9/2010		ECP Not	Dip Rolling	THP Low	-	-	0	0	0	0	0	\$0	0
Improve existing dip by removing berms to widen relief and by filling inside ditch above and below dip.																	
60.0924	5529	1.000	Pehl	Pehl	08-086	Belladonna	Surface Drainage	Storm Proofing	N/A		0	0	0	0	0	\$0	55
Storm Proofed	5529	1.113	R&S	8/25/2010		ECP Not	Tip and Dip	Medium	-	-	0	0	0	0	0	\$0	55
Outsloped with spoils from crossing removal																	
60.0924	690	1.050	Kelly	Kelly	Maintena	Maintenance	Culv.-Ditch Relief	Maintenance	N/A		0	0	0	0	0	\$0	0
Private Seasonal	690	0.000	Unk	2/15/2000		ECP Not	No Action	Medium	18"	-	0	0	0	0	0	\$0	0
60.0924	691	1.090	Kelly	Kelly	Maintena	Maintenance	Culv.-Ditch Relief	Maintenance	N/A		0	0	0	0	0	\$0	0
Private Seasonal	691	0.000	Unk	2/15/2000		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0
60.0924	692	1.110	Kelly	Kelly	Maintena	Maintenance	Culv.-Ditch Relief	Maintenance	N/A		0	0	0	0	0	\$0	0
Private Seasonal	692	0.000	Unk	2/15/2000		ECP Not	No Action	Medium	18"	-	0	0	0	0	0	\$0	0
60.0924	693	1.150	Kelly	Kelly	Maintena	Maintenance	Culv.	Maintenance	11"		0	0	0	0	0	\$0	0
Private Seasonal	693	0.000	Unk	2/15/2000		ECP Not	No Action	Medium	30"	-	0	0	0	0	0	\$0	0
60.09243906	5827	0.990	Pehl	Pehl	Maintena	Maintenance	Surface Drainage	Assessment	N/A		0	0	0	6	0	\$1,350	88
Storm Proofed	5829	0.180	R&S	10/2/2012		ECP Not	Tip and Dip	Medium	-	-	0	0	4	5	0	\$15	88
I&D and block reservoir road																	
60.092472	5827	0.000	Pehl	Pehl	Maintena	Maintenance	Surface Drainage	Assessment	N/A		0	0	0	4	3	\$1,423	73
Storm Proofed	5827	0.150	R&S	10/2/2012		ECP Not	Tip and Dip	Medium	-	-	0	0	4	6	0	\$19	73
Open and drain road to office																	
60.092495	5526	0.000	Pehl	Pehl	08-086	Belladonna	Surface Drainage	Storm Proofing	N/A		0	0	0	0	0	\$0	47
Abandoned Fixed	5526	0.096	R&S	8/25/2010		ECP Not	Tip and Dip	Medium	-	-	0	0	0	0	0	\$0	47
Outsloped with spoils from crossing removal																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solut ion	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
60.0926	1095	0.020	Alden	Alden	Maintena	Maintenance	No Problem	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	1095	0.000	Unk	12/5/2000		ECP Not	Gate	Low	-	-	0	0	0	0	0	\$0	0
60.0929	2506	0.000	Fisher	Pehl	05-023	Clover	Surface Drainage	THP Mitigation	N/A	0	0	0	0	0	0	\$0	5
Private Seasonal	2506	0.250	R&S	10/2/2007		1B105023MEN	Tip and Dip	THP Low	-	-	0	0	0	0	0	\$0	0
Tip and dip road to reduce erosion risk from trespassers.																	
60.0929	1094	0.020	Alden	Alden	Maintena	Maintenance	No Problem	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	1094	0.000	Unk	12/5/2000		ECP Not	Gate	Low	-	-	0	0	0	0	0	\$0	0
60.0929	2622	0.150	Fisher	Pehl	05-023	Clover	Dip Critical	THP Mitigation	III	0	0	0	0	0	0	\$0	0
Private Seasonal	2622	0.150	R&S	10/2/2007		ECP Not	Dip Critical	Medium	-	-	0	0	0	0	0	\$0	0
Install critical dip.																	
60.0929	2623	0.200	Fisher	Pehl	05-023	Clover	Dip Rolling	THP Mitigation	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2623	0.200	R&S	10/2/2007		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
install rolling dip.																	
60.092971	2507	0.100	Fisher	Pehl	05-023	Clover	Other	THP Mitigation	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2507	0.310	Unk	10/2/2007		1B105023MEN	No Action	THP Low	-	-	0	0	0	0	0	\$0	0
Abandon road by not re-opening the road. Road fill prisms and crossings are failing. Road covered in 20-30 year old reproduction. To re-open road would cause more disturbance than allowing to fail over time.																	
60.28	1099	0.010	Alden	Alden	Maintena	Maintenance	No Problem	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	1099	0.000	Unk	12/5/2000		ECP Not	Gate	Low	-	-	0	0	0	0	0	\$0	0
60.28	670	0.025	Kelly	Kelly	Maintena	Maintenance	Temp. Crossing	Maintenance	I	0	0	0	4	4	0	\$501	0
Private Seasonal	670	0.000	Su	6/22/2000		ECP Not	Bridge - Temp	Important 1600	-	1RRBr	0	0	5	1	0	\$0	0
Flatcar bridge on North Fork Gualala River (downstream from the Green County Bridge). Existing road xing last used in 1999. The river gravel bar is approximately 200' wide and the stream is down the middle and unbraided. Installation involves placing brow logs on both banks to support the bridge and minor grading to make the surface suitable for log truck traffic. The bridge will be removed no later than 11/15 of each year and stored in the forest off of the gravel bar, the brow logs are saved and reused as necessary. The near bank vegetation is redwood forest with some willows. No repairian vegetation will be disturbed during bridge installation. The active stream channel will not be disturbed. There will be no impact on fish or wildlife. (Flat car is 53'8" by 94", wood decked, deck is usable, KP 1/31/01.)																	
60.3	2673	0.000	Pehl	Pehl	99-445	Flats South	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2673	3.300	Unk	12/23/2005		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Winter Inspection. No problems.																	
60.3	2709	0.000	Pehl	Pehl	03-089	Primrose	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2709	0.500	Unk	12/29/2005		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Cleared Groshong Creek culvert inlet.																	
60.3	2735	0.000	Pehl	Pehl	99-445	Flats South	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Perm.	2735	3.300	Unk	1/5/2006		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Wet weather inspection. Needs some maintenance.																	
60.3	2734	0.000	Pehl	Pehl	03-075	Franklins Tower	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Perm.	2734	3.300	Unk	1/6/2005		SPP	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Wet weather inspection.																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Shedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
60.3	2739	0.000	Pehl	Pehl	99-445	Flats South	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Perm.	2739	3.300	Unk	1/9/2006		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Scapped mud off bridge. Many puddles, but road passable.																	
60.3	5499	0.000	Chidlaw	Chidlaw	Maintena	Maintenance	Other	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5499	0.500	Unk	8/25/2009		ECP Not	Herbicides	Medium	-	-	0	0	0	0	0	\$0	0
60.3	5465	0.000	Haschak	Pehl	10-081	Juniper	Other	THP App. Rd.	II	0	0	0	0	0	0	\$0	0
Private Perm.	5465	0.000	Unk	10/22/2014		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
WLPZ landing. If landing is used place brow logs or straw bales between landing and watercourse. Remove at close of operations and seed and mulch landing to standards of item 18.																	
60.3	1386	0.100	Alden	Alden	Maintena	Maintenance	Surface Drainage	Storm Proofing	N/A	0	0	0	30	14	0	\$5,738	147
Storm Proofed	1386	0.400	ME	3/15/2001		ECP Not	Rock Surface	Medium	-	-	0	0	21	0	0	\$59	147
Clear and rock river road. Clean rock pit.																	
60.3	1813	0.400	Alden	Alden	Maintena	Maintenance	No Problem	Maintenance	Hole	0	0	0	0	0	0	\$0	0
Water Rights	1813	0.000	Unk	10/15/2001		ECP Not	Water Hole	No Action	-	-	0	0	0	0	0	\$0	0
S018675																	
Groshog Hole- 1813 S018675 (739347) Flood plain hole near Groshong. The water is used for logging dust abatement. There is no electricity at the site. Usage is infrequent. Estimates are base on water truck loads per day converted into gallons.																	
60.3	2322	0.470	Pehl		Maintena	Maintenance	Culv.-Plug	Maintenance	I	0	0	0	0	0	0	\$380	0
Private Perm.	2729	0.000	JIB	1/2/2006		SPP	Culv. Maintenance	High	48"	-	0	0	0	0	0	\$0	0
Culvert plugged and eroded fill																	
Replace fill and armor inlet.																	
60.3	2322	0.470	Hovland	Pehl	03-075	Franklins Tower	Culv	THP Mitigation	I	0	0	0	18	11	0	\$2,500	0
Private Perm.	2322	0.000	R&S	10/13/2006		SPP	Bridge - Perm	Medium	48" IRRBr	0	0	0	15	15	0	\$0	0
This is where the existing permanent road crosses Groshong Gulch, a Class I watercourse. Obtain 1600 permit. Replace with a bridge.																	
60.3	1897	0.500	Pehl	Pehl	Maintena	Maintenance	Surface Drainage	Maintenance	N/A	0	0	0	0	0	0	\$1,385	0
Private Seasonal	1897	2.500	BB	2/15/2002		ECP Not	Other	High	-	-	0	0	0	0	0	\$0	0
Improve road surface drainage. Clean ditches and culvert inlets.																	
60.3	229	0.510	Heath	Kelly	99-282	Bailey	Surface Drainage	THP... Not	N/A	0	0	0	0	0	0	\$0	0
Private Perm.	229	0.000	Unk	7/1/2000		ECP Not	Other	Medium	24"	-	0	0	0	0	0	\$0	0
At high water, Groshong Creek overflows onto road and puddles at low spot at intersection with road 60.301501. Solution: Build-up berm to contain overflow at edge of mdw from .301501 gate 100 feet to culvert. Fill-in low spot and outslope road intersection to allow surface drainage. (To be addressed by Bridge)																	
60.3	231	0.550	Heath	Kelly	99-282	Bailey	Inside ditch	THP... Not	N/A	0	0	0	0	0	0	\$780	0
Private Perm.	231	0.000	JIB	3/3/2000		ECP Not	Ditch - Clean	Medium	-	-	0	0	0	9	0	\$0	0
Spring at side of road is causing overflow because the inside ditch is full of sediments. Clean inside ditch 175' to next culvert.																	
60.3	1104	0.600	Alden	Alden	Maintena	Maintenance	No Problem	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	1104	0.600	Unk	12/5/2000		ECP Not	Gate	Low	-	-	0	0	0	0	0	\$0	0
60.3	236	0.970	Heath	Kelly	99-282	Bailey	Inside ditch	THP... Not	N/A	0	0	0	0	0	0	\$0	0
Private Perm.	236	0.000	Unk	7/1/2000		ECP Not	Ditch - Clean	Medium	-	-	0	0	0	0	0	\$0	0
Clean inside ditch 100' to culvert.																	

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Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
60.3	238	1.070	Heath	Kelly	99-282	Bailey	Inside ditch	THP... Not	N/A		0	0	0	0	0	\$0	0
Private Perm.	238	0.000	Unk	7/1/2000		ECP Not	Ditch - Clean	Medium	-	-	0	0	0	0	0	\$0	0
Clean-out ditch 150' to culvert.																	
60.3	239	1.110	Heath	Kelly	99-282	Bailey	Culv.	THP... Not	II		0	0	0	0	0	\$0	0
Private Perm.	239	0.000	Unk	7/1/2000		ECP Not	Culv. Maintenance	Medium	-	-	0	0	0	0	0	\$0	0
Repair inlet to existing pipe. Clean ditch 50																	
60.3	2058	1.700	Pebl	Alden	Maintena	Maintenance	Surface Drainage	Maintenance	I		0	0	0	3	0	\$600	0
Private Seasonal	2058	0.000	ME	8/30/2002		ECP Not	Rock Surface	Medium	RRBr	-	0	0	0	3	0	\$0	0
Rocked and dipped through cut leading into the Pepperwood bridge to reduce sediment delivery.																	
60.3	2058	1.700	Alden	Alden	271 Pep	Pep P0530407	Bridge	Storm Proofing	I		0	70	0	49	38	\$35,788	0
Private Seasonal	2337	0.000	R&S	8/1/2008		ECP Not	Bridge - Perm	Medium	RRBr	EngBr	40	0	45	35	0	\$0	0
Replace bridge with new bridge on concrete Munchke block abutments. Henry Alden gave Vic Spurgeon permission to place a nomument to his wife Jan s late father Warren Storts. Warren logged most of his life in the area. There is no body below.																	
60.3011	2723	0.800	Pebl	Pebl	99-087	Greshong Ridge	No Problem	THP Maint Insp	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2723	0.800	Unk	1/4/2006		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Winter Inspection. Culverts okay.																	
60.3011	2722	0.800	Pebl	Pebl	09-089	Primrose	No Problem	THP Maint Insp	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2722	0.800	Unk	1/4/2006		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Winter Inspection. Culverts okay.																	
60.3011	1102	0.040	Alden	Alden	Maintena	Maintenance	No Problem	Maintenance	N/A		0	0	0	0	0	\$0	0
Private Seasonal	1102	0.000	Unk	12/5/2000		ECP Not	Gate	Low	-	-	0	0	0	0	0	\$0	0
60.3011	5488	0.420	Alden	Alden	Maintena	Maintenance	No Problem	Maintenance	II		0	0	0	0	0	\$0	0
Water Rights	5488	0.000	Unk	6/1/1980		ECP Not	Water Hole	Annual Water Use	-	-	0	0	0	0	0	\$0	0
S019006 146447																	
Red Dog 2-5488 S019006 Illegal upper water source for neighbor, Stillman. The water is for domestic use. There is no electricity at the site.																	
60.3011	5486	0.500	Alden	Alden	Maintena	Maintenance	No Problem	Maintenance	II		0	0	0	0	0	\$0	0
Water Rights	5486	0.000	Unk	6/1/1980		ECP Not	Water Hole	Annual Water Use	-	-	0	0	0	0	0	\$0	0
S019012 210588																	
Red Dog 1-5486 S019012 Illegal lower water source for neighbor Rich Fesler. The water is for domestic use. There is no electricity at the site.																	
60.3011	2725	1.000	Pebl	Pebl	99-087	Greshong Ridge	No Problem	THP Maint Insp	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2725	2.900	Unk	1/4/2006		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Winter Inspection. Culverts okay.																	
60.301107	2726	0.000	Pebl	Pebl	99-087	Greshong Ridge	No Problem	THP Maint Insp	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2726	0.200	Unk	1/4/2006		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Winter Inspection. Culverts okay.																	
60.301107	5487	0.100	Alden	Alden	Maintena	Maintenance	No Problem	Maintenance	II		0	0	0	0	0	\$0	0
Water Rights	5487	0.000	Unk	6/1/1980		ECP Not	Water Hole	Annual Water Use	-	-	0	0	0	0	0	\$0	0
S019009 297927																	
Illegal water source for neighbor, Stillman. The water is for domestic use. There is no electricity at the site.																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Shedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
60.30111	2418	0.000	Pehl	Pehl	Storm Pro	Storm Proofing	Surface Drainage	Storm Proofing	N/A		3	0	0	0	0	\$0	758
Storm Proofed	2418	1.550	AL	8/3/2004		ECP Not	Tip and Dip	Medium	-	-	3	0	0	0	0	\$0	758
Road outloped and dipped where feasible to disconnect road drainage from watercourses and to reduce necessity for future road maintenance.																	
60.30111	2721	0.303	Pehl	Pehl	03-089	Primrose	No Problem	THP Maint Insp	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2721	0.500	Urk	1/4/2006		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Winter Inspection. Culverts okay. Several bank slumps around 0.5 mile.																	
60.30111	2968	0.000	Pehl	Pehl	Maintena	Maintenance	Cut Bank Failure	Maintenance	N/A		0	0	0	7	0	\$850	0
Private Seasonal	2968	1.000	R&S	6/3/2006		ECP Not	Excavate Soil	Medium	-	-	0	0	8	1	0	\$0	0
Cleared slumps and windthrows.																	
60.30111	2206	0.250	Haschak	Pehl	03-089	Primrose	Culv.	THP App. Rd.	II		0	40	0	60	40	\$12,830	1,600
Private Seasonal	2206	0.250	AL	7/27/2004		ECP Not	Culv. Replace	Medium	48"	72"	60	0	60	20	1,600	\$10	1,280
water flowing subsurface below culvert on Class II watercourse.																	
Replace culvert with 72" pipe after excavating channel from "top" to "bottom" and pulling back instream landing to stable repose. All materials excavated will be removed to a stable location.																	
Grass seed and mulch to item 18 standards. See sketch on THP page 32.4																	
60.30111	2205	0.250	Pehl	Pehl	Maintena	Maintenance	Culv.	Storm Proofing	II		0	20	0	5	10	\$6,375	20
Private Seasonal	4693	3.000	R&S	8/11/2008		ECP Not	Culv. Maintenance	Medium	72"	72"	60	0	0	2	0	\$319	20
water flowing subsurface below culvert on Class II watercourse.																	
Replace culvert with 72" pipe after excavating channel from "top" to "bottom" and pulling back instream landing to stable repose. All materials excavated will be removed to a stable location.																	
Grass seed and mulch to item 18 standards. See sketch on THP page 32.4																	
60.30111	2207	0.320	Haschak	Pehl	03-089	Primrose	Culv.	THP App. Rd.	III		0	0	0	0	0	\$0	0
Private Seasonal	2207	0.000	AL	7/27/2004		ECP Not	Culv. Replace	Medium	18	36"	0	0	0	0	0	\$0	0
18 inch shotgunned culvert on class III watercourse. Remove existing culvert and install 36 culvert at grade of creek bottom. Install critical dip downslope from culvert.																	
60.30111	2208	0.350	Haschak	Pehl	03-089	Primrose	Slide - Shallow	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2208	0.000	AL	7/27/2004		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
upslope bank failure onto road.																	
Arch over road bank failure. Keep high point at center line of failure so as to ensure drainage away from slide face. The cutbank failure debris shall be raxped over to minimize excavation into the cutbank toe.																	
60.30111	2095	0.550	Haschak	Pehl	03-089	Primrose	No Problem	THP Mitigation	III		0	0	0	0	0	\$0	0
Private Seasonal	2095	0.000	AL	8/15/2004		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
maintain rolling dip																	
60.30111	2097	0.650	Haschak	Pehl	03-089	Primrose	Cut Bank Failure	THP Mitigation	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2097	0.000	AL	8/15/2004		ECP Not	Excavate Soil	Medium	-	-	0	0	0	0	0	\$0	0
Arch over road bank failure. Keep high point at center line of failure so as to ensure drainage away from slide face. The cutbank failure debris shall be raxped over to minimize excavation into the cutbank toe.																	
60.30111	5914	0.740	Haschak	Pehl	03-089	Primrose	Temp. Crossing	THP Mitigation	III		0	0	0	0	0	\$552	0
Private Seasonal	5914	0.000	AL	8/15/2004		ECP Not	Armored Ford	THP Low	-	24'	30	0	0	0	0	\$0	0
Install a rocked dip with predominately 12"+ rock and rock outfall prior to completion of operations.																	
60.30111	2098	0.770	Haschak	Pehl	03-089	Primrose	Temp. Crossing	THP Mitigation	III		0	0	0	0	0	\$0	0
Private Seasonal	2098	0.000	AL	8/15/2004		ECP Not	Armored Ford	THP Low	-	-	30	0	0	0	0	\$0	0
Install a rocked dip with predominately 12"+ rock and rock outfall prior to completion of operations.																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
60.30111	5915	0.770	Haschak Pebl		03-089	Primrose	Temp. Crossing	THP Mitigation	III		0	0	0	0	0	\$0	0
Private Seasonal	5915	0.000	AL	8/15/2004		ECP Not	Armored Ford	THP Low	-	-	30	0	0	0	0	\$0	0
Install a rocked dip with predominately 12"+ rock and rock outfall prior to completion of operations.																	
60.30111	2095	0.850	Haschak Pebl		03-089	Primrose	Temp. Crossing	THP Mitigation	III		0	0	0	0	0	\$184	0
Private Seasonal	2095	0.000	AL	8/15/2004		ECP Not	Dip Critical	Low	18"	24"	10	0	0	0	0	\$0	0
Temporarily block existing culvert inlet with a straw bale. Install temporary watercourse crossing above the inlet (a layer of straw shall mark the existing channel prior to placing fill, so that all fill may be removed upon completion of use). Remove temporary crossing and straw at completion of use and maintain a rocked critical dip 30 feet west of the culvert on the main road.																	
60.30111	2395	0.850	Haschak Pebl		11-043	Rose	Temp. Crossing	THP App. Rd.	II		0	0	0	0	0	\$0	0
Private Seasonal	5595	0.000	Unk	10/17/2014		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Temporarily block existing culvert inlet with a straw bale. Install temporary watercourse crossing above the inlet (a layer of straw shall mark the existing channel prior to placing fill, so that all fill may be removed upon completion of use). Remove temporary crossing and straw at completion of use and maintain a rocked critical dip 30 feet west of the culvert on the main road. As an alternative a pipe extension can be placed on the upper end of the existing pipe and left in place after operations.																	
60.30111	2102	1.000	Haschak Pebl		03-089	Primrose	Surface Drainage	THP App. Rd	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2102	1.850	AL	8/15/2004		ECP Not	Waterbar	THP Low	-	-	0	0	0	0	0	\$0	0
This segment of road for 0.8 miles has failing waterbars. Pull the berm and outslope wherever possible. Install rolling dips or waterbars to suitably cross drain road along the entire length prior to the first winter after the year of its use. In addition, at the western end of this road segment (approximately 45 feet uproad (east) from where log is painted with "end of road point #9" a large waterbar will be installed (bush is painted blue at this location). Ensure that water drained at this location does not drain to landing at point #6.																	
60.30111	2099	1.100	Haschak Pebl		03-089	Primrose	Surface Drainage	THP Mitigation	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2099	1.090	A7	8/15/2004		ECP Not	Rock Surface	Medium	-	-	0	0	0	0	0	\$0	0
Drain upper landing/road intersection such that ditch intercepts water coming down road to the east and so that water doesn't flow down the through cut to the south.																	
60.30111	5989	1.550	Alden	Alden	Maintena	Maintenance	No Problem	Maintenance	N/A		0	0	0	0	0	\$0	0
Private Seasonal	5989	0.000	Unk	6/1/1991		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Low Band Radio Repeater site and weather station.																	
60.3011015	4400	0.000	Alden	Alden	50 Gro	Greshong Prop 50	Surface Drainage	Assessment	N/A		0	0	0	14	0	\$4,165	196
Storm Proofed	4400	0.400	R&S	8/17/2009		ECP Not	Tip and Dip	Medium	-	-	0	0	14	0	0	\$21	196
Tip and Dip																	
60.3011015	4410	0.100	Alden	Alden	50 Gro	Greshong Prop 50	Humbolet	Storm Proofing	II		0	10	0	5	6	\$2,606	50
Storm Proofed	4410	0.000	R&S	8/14/2009		ECP Not	Armored Ford	Medium	-	-	0	0	5	8	100	\$52	50
Low gradient Class III runs down the road.																	
Establish rock armored dips at the old crossing and the new crossing.																	
60.3011015	4410	0.100	Haschak Pebl		11-043	Rose	No Problem	THP App. Rd.	III		0	0	0	0	0	\$0	0
Private Seasonal	5611	0.000	Unk	10/17/2014		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Existing armored ford. Do not grade road across this crossing.																	
60.3011015	4408	0.280	Alden	Alden	50 Gro	Greshong Prop 50	Slide - Shallow	Storm Proofing	N/A		0	0	0	0	0	\$0	0
Storm Proofed	4408	0.000	R&S	8/14/2009		ECP Not	Other	Low	-	-	0	0	0	0	200	\$0	0
A small landslide started above the cut bank and crossed the road. It does not appear to have delivered.																	
Ramp over and inslope to keep water off the slide.																	
60.3011015	5351	0.340	Alden	Alden	Maintena	Maintenance	No Problem	Assessment	N/A		0	0	0	0	0	\$0	0
Private Seasonal	5351	0.000	R&S	8/17/2009		ECP Not	Rock Pit	No Action	-	-	0	0	0	0	0	\$0	0
This could be a very good source of rip rap and road base.																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
60.3011015	4407	0.400	Alden	Alden	50 Gro	Groshong Prop 50	Humboldt	Storm Proofing	III		0	0	0	0	0	\$298	100
Deactivated	4407	0.000	R&S	8/13/2009		ECP Not	Remove Crossing	Medium	-	-	0	0	1	0	100	\$3	100
Very small class III																	
Dig out crossing spoil locally																	
60.3011015	4401	0.400	Alden	Alden	50 Gro	Groshong Prop 50	Surface Drainage	Assessment	N/A		0	0	0	14	0	\$4,165	122
Deactivated	4401	0.650	R&S	8/17/2009		ECP Not	Tip and Dip	Medium	-	-	0	0	14	0	0	\$34	122
Tip and Dip																	
60.3011015	4406	0.430	Alden	Alden	50 Gro	Groshong Prop 50	Humboldt	Storm Proofing	III		0	0	0	2	0	\$927	350
Deactivated	4406	0.000	R&S	8/13/2009		ECP Not	Remove Crossing	Medium	-	Put	0	0	2	4	400	\$3	350
Class III																	
Dig out crossing spoil locally																	
60.3011015	4405	0.540	Alden	Alden	50 Gro	Groshong Prop 50	Humboldt	Storm Proofing	III		0	0	0	3	0	\$1,436	300
Deactivated	4405	0.000	R&S	8/14/2009		ECP Not	Remove Crossing	Medium	-	Pull	0	0	5	7	300	\$5	300
Class III																	
Dig out crossing spoil locally																	
60.3011015	4404	0.580	Alden	Alden	50 Gro	Groshong Prop 50	Humboldt	Storm Proofing	III		0	0	0	5	0	\$1,786	150
Deactivated	4404	0.000	R&S	8/13/2009		ECP Not	Remove Crossing	Medium	-	-	0	0	6	3	150	\$12	150
Side trail Class III																	
Dig out crossing																	
60.3011015	5338	0.650	Alden	Alden	50 Gro	Groshong Prop 50	Humboldt	Storm Proofing	I		0	0	0	17	0	\$5,384	450
Deactivated	5338	0.000	R&S	8/10/2009		ECP Not	Remove Crossing	Medium	-	-	0	0	17	6	1,000	\$12	450
This is a filled in class II from logging and an old road. This is about 400 feet upstream from site 4403.																	
Reestablish channel by removing and stabilizing sediment. Lower end is at base of first head cut. Upper end it solid log blocking the channel. It is about 200' long.																	
60.3011015	4403	0.650	Alden	Alden	50 Gro	Groshong Prop 50	Humboldt	Storm Proofing	II		0	0	0	8	0	\$2,707	4,000
Deactivated	4403	0.000	R&S	8/13/2009		ECP Not	Remove Crossing	Medium	-	-	0	0	8	6	5,000	\$1	4,000
This is an old landing in a low gradient Class II. It is 300' long and 100' wide at the bottom, but only about 6' deep at the bottom.																	
Establish channel on the left bank to pick up Class III coming in and to provide area to spoil locally outside of the channel on the right bank.																	
60.3011049	2094	0.080	Haschak Pehl	03-089		Perrrose	Humboldt	THP Recon.	III		0	0	0	0	0	\$0	0
Private Seasonal	2094	0.000	AL	8/15/2004		ECP Not	Excavate Soil	Medium	-	-	0	0	0	0	0	\$0	0
old humboldt on minor class III. Remove humboldt down to grade at close of operations and the crossing will be completely pulled and mulched to item 18 standards.																	
60.3011049	2094	0.100	Haschak Pehl	11-043		Rose	Temp. Crossing	THP App. Rd	II		0	0	0	0	0	\$0	0
Private Seasonal	5596	0.000	Usk	10/17/2014		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Install temporary spittler crossing. Define bottom of channel with hay flakes. Remove crossing down to grade at close of operations and the crossing will be completely pulled and mulched to item 18 standards.																	
60.301106	5348	0.090	Alden	Alden	Maintena	Maintenance	No Problem	Assessment	III		0	0	0	0	0	\$0	0
Storm Proofed	5348	0.000	Unk	8/13/2009		ECP Not	No Action	Low	-	-	0	0	0	0	0	\$0	0
Small Class III. Make sure it is dipped.																	
60.301106	5349	0.100	Alden	Alden	Maintena	Maintenance	No Problem	Assessment	III		0	0	0	0	0	\$472	0
Private Seasonal	5349	0.000	Usk	8/10/2003		ECP Not	No Action	No Action	18"	18"	40	0	0	0	0	\$0	0
Old culvert with down spout																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	R'ght D	Cat	Labor	Yds	\$/FSD	FSD Yds
60.301139	2727	0.000	Pebl	Pebl	99-087	Groshong Ridge	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2727	0.500	Unk	1/4/2006		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Winter Inspection. Culverts okay.																	
60.301142	2724	0.000	Pebl	Pebl	99-087	Groshong Ridge	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2724	0.300	Unk	1/4/2006		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Winter Inspection. Culverts okay.																	
60.301142	4398	0.000	Alden	Alden	50 Gro	Groshong Prop 50	Surface Drainage	Assessment	N/A	0	0	0	4	0	0	\$1,434	137
Storm Proofed	4398	0.280	R&S	8/10/2009		ECP Not	Tip and Dip	Medium	-	-	0	0	5	2	0	\$10	137
Tip and Dip																	
60.301142	4399	0.280	Alden	Alden	50 Gro	Groshong Prop 50	Surface Drainage	Assessment	N/A	0	0	0	4	0	0	\$1,461	93
Deactivated	4399	0.470	R&S	8/10/2009		ECP Not	Tip and Dip	Medium	-	-	0	0	6	0	0	\$16	93
Tip and Dip																	
60.301142	4397	0.280	Alden	Alden	50 Gro	Groshong Prop 50	Humboldt	Storm Proofing	II	0	40	0	7	0	0	\$2,030	2,000
Deactivated	4397	0.000	R&S	8/11/2009		ECP Not	Remove Crossing	Medium	-	Pull	0	0	5	4	2,500	\$1	2,000
Excavate top to bottom. End haul what can't be stored locally out to intersection with the ridge road. Rock the top.																	
60.301142	4402	0.390	Alden	Alden	50 Gro	Groshong Prop 50	Humboldt	Storm Proofing	III	0	0	0	4	0	0	\$1,408	200
Deactivated	4402	0.000	R&S	8/12/2009		ECP Not	Remove Crossing	Medium	-	Pull	0	0	4	4	300	\$7	200
Small class III. Remove top to bottom spot locally.																	
60.301146	5352	0.250	Alden	Pebl	Maintena	Maintenance	Surface Drainage	Maintenance	N/A	0	0	0	14	2	0	\$3,184	171
Storm Proofed	5352	0.600	R&S	9/18/2009		ECP Not	Tip and Dip	Medium	-	-	0	0	14	0	0	\$19	171
60.301145	2720	0.600	Pebl	Pebl	03-089	Primrose	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2720	1.000	Unk	1/4/2006		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Winter Inspection. Culverts okay.																	
60.30115656	4472	0.000	Alden	Alden	99-087	Groshong Ridge	No Problem	Storm Proofing	N/A	0	0	0	0	0	0	\$0	0
Not Connected	4472	0.130	Unk	10/15/2003		ECP Not	No Action	Low	-	-	0	0	0	0	0	\$0	0
This is a short spur that is not connected.																	
60.3015	899	0.000	McCanl	Alden	Storm Pro	Storm Proofing	Surface Drainage	Storm Proofing	N/A	0	0	0	104	101	0	\$23,538	538
Storm Proofed	899	1.100	ME	5/1/2000		ECP Not	Rock Surface	Medium	-	-	0	0	77	11	0	\$44	538
60.3015	1080	0.000	Pebl	Pebl	Maintena	Maintenance	No Problem	Maintenance	N/A	0	0	0	0	0	8	\$600	0
Private Perm.	1080	1.100	RF	10/9/2000		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
Grade road.																	
60.3015	1706	0.000	Chidlaw	Chidlaw	Maintena	Maintenance	Other	Maintenance	N/A	0	0	0	0	0	0	\$275	0
Private Seasonal	1706	1.600	TE	7/20/2001		ECP Not	R/W Treatment	Medium	-	-	0	0	0	10	0	\$0	0
Sprayed pampas grass with 3 percent Roundup + R11 (trace).																	
60.3015	2114	0.000	Bennet	Bennet	96-404	Lowery Openings	Culv-Plug	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2114	0.000	Unk	2/10/2002		ECP Not	Culv. Maintenance	Medium	-	-	0	0	0	0	0	\$0	0
60.3015	2707	0.000	Pebl	Pebl	03-089	Primrose	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Perm.	2707	1.100	Unk	12/29/2005		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Cleared culvert inlets.																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds	
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds	
60.3015	2717	0.000	Pehl	Pehl	03-089	Primrose	No Problem	THP Maint Insp	N/A		0	0	0	0	0	\$0	0	
Private Perm.	2717	1.100	Unk	1/4/2006		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0	
Winter Inspection. Culverts okay. One bank slump.																		
60.3015	5500	6.500	Chidlaw	Chidlaw	Maintena	Maintenance	Other	Maintenance	N/A		0	0	0	0	0	\$0	0	
Private Seasonal	5500	6.520	Unk	8/25/2009		ECP Not	Herbicides	Medium	-	-	0	0	0	0	0	\$0	0	
60.3015	244	0.010	Heath	McCarl	99-282	Bailey	Surface Drainage	THP... Not	N/A		0	0	0	0	0	\$130	0	
Private Perm.	244	0.000	ME	5/2/2000		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0	
Install rolling dip to drain water from road. This would be in front of gate and drain to right side of road looking west.																		
60.3015	1103	0.010	Alden	Alden	Maintena	Maintenance	No Problem	Maintenance	N/A		0	0	0	0	0	\$0	0	
Private Seasonal	1103	0.000	Unk	12/5/2009		ECP Not	Gate	Low	-	-	0	0	0	0	0	\$0	0	
60.3015	834	0.050	McCarl	McCarl	Storm Pro	Storm Proofing	Fill - Road	Storm Proofing	N/A		0	0	0	0	0	\$240	83	
Private Perm.	834	0.000	ME	5/2/2000		ECP Not	Excavate Soil	Medium	-	-	0	0	0	1	2	\$3	83	
potential roadfill failure above class 3 scarps and cracks showing along OBR treat: excavate and store on landing directly across road from site.																		
60.3015	246	0.080	Heath	Kelly	99-282	Bailey	Culv.	THP... Not	II		0	0	0	0	0	\$0	0	
Private Perm.	246	0.000	Unk	7/1/2000		ECP Not	Culv. Maintenance	Medium	24"	-	0	0	0	0	0	\$0	0	
Clean-out cmp and 150 feet of inside ditch.																		
60.3015	247	0.150	Heath	Kelly	99-282	Bailey	Culv.	THP... Not	III		0	0	0	0	0	\$0	0	
Private Perm.	247	0.000	ME	5/2/2000		ECP Not	Culv. Maintenance	Medium	24"	-	0	0	0	0	0	\$0	0	
Also clean out 200 feet of inside ditch																		
60.3015	247	0.150	McCarl	Kelly	Storm Pro	Storm Proofing	Culv.-IBD?	Storm Proofing	II		0	0	0	2	0	\$380	30	
Private Perm.	835	0.000	ME	5/2/2000		ECP Not	Dip Critical	Medium	24"	-	0	0	0	2	0	\$12	30	
A 24" cmp on a class 3 , cmp has DP to left. This is a new installation, a channel was constructed above to inlet , stream is currently headcutting up from inlet. Treat: re-grade channel above inlet , laying sides back 2 to 1 , install CD left hinge																		
60.3015	248	0.250	Heath	Kelly	99-282	Bailey	Culv.	THP... Not	III		0	0	0	4	4	0	\$649	0
Private Perm.	248	0.000	RB	10/17/1999		ECP Not	Culv. Replace	Medium	24"	24"	0	0	0	0	0	\$0	0	
Also clean-out 300 feet of inside ditch.																		
60.3015	248	0.250	McCarl	Kelly	Storm Pro	Storm Proofing	Culv.	Storm Proofing	II		0	0	0	3	1	0	\$1,536	75
Private Perm.	836	0.000	ME	5/3/2000		ECP Not	Culv. Replace	Medium	18"	24"	40	0	4	4	174	\$20	75	
A 18" cmp on a class 3 . No flow at present time , flow during peak events. Appears to receive majority of flow coming down inside ditch , cmp low gradient and shotgunned, road surface draining over OBF. Treat: replace with 24" to grade inslope road over crossing , add CD																		
60.3015	838	0.370	McCarl	Alden	Storm Pro	Storm Proofing	Fill - Road	Storm Proofing	N/A		0	0	0	5	10	0	\$1,600	441
Private Perm.	838	0.000	ME	6/5/2000		ECP Not	Excavate Soil	High	-	-	0	0	0	0	8	441	\$12	152
Pot. Roadfill failure , with several small past failure treat: excavate and endhaul to spoil site																		
60.3015	839	0.380	McCarl	Kelly	Storm Pro	Storm Proofing	Other	Storm Proofing	III		0	0	0	3	2	0	\$1,701	75
Private Perm.	839	0.000	ME	5/3/2000		ECP Not	Culv. Install	High	-	24"	50	0	0	4	167	\$23	75	
A class with no cmp , flows down IBD 220' to site #4. A well defined channel above and below road . Treat: install 24" cmp to grade , remove root ball and small redwood at inlet , grade up channel 20' , add CD right hinge , add DS if needed.																		
60.3015	1825	0.400	Alden	Alden	Maintena	Maintenance	No Problem	Maintenance	N/A		0	0	0	0	0	\$0	0	
Private Seasonal	1825	0.000	Unk	10/15/2001		ECP Not	Rock Pit	Low	-	-	0	0	0	0	0	\$0	0	
Ranch Road Pit																		

NO

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
60.3015	249	0.460	Heath	Kelly	99-282	Bailey	Inside ditch	THP Resor.	N/A	0	0	0	0	0	0	\$0	0
Private Perm.	249	0.000	ME	5/5/2000		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
Rock Pit location. Water is moving over berm designed to prevent out flow onto road. Inside ditch is full and should be clean-out to direct water to culvert. Also, fill failure on the otherside of the road is increasing and will continue. Repair fill failure with rock pit material and construct outside berm to prevent flow onto new fill.																	
60.3015	249	0.460	McCarl	Kelly	Storm Pro	Storm Proofing	Other	Storm Proofing	III	0	0	0	10	2	0	\$3,928	90
Private Perm.	840	0.000	ME	5/5/2000		ECP Not	Culv. Replace	High	24"	36"	50	0	8	4	215	\$44	90
Rock pit located in class 3 flow going subsurface 110' above road and emerges 250' below road. During peak events large amount flow down rock pit to IBD then right 45' to cmp, a berm was constructed to keep flow in ditch. Cmp is low gradient. Road surface draining over OBF causing fill erosion. Treat: remove 24" cmp, install 36" 30' to left at old fill failure, install to grade. Construct a more direct channel to in'et from above, having a large berm on the left, add CD right hinge, rock armour fill slope below, add trash rack 10' above inlet																	
60.3015	841	0.500	McCarl	Alden	Storm Pro	Storm Proofing	Fill - Road	Storm Proofing	N/A	0	0	0	12	9	0	\$2,188	1,157
Private Perm.	841	0.000	ME	5/5/2000		ECP Not	Excavate Soil	High	-	-	0	0	3	5	1,167	\$0	0
A past roadfill failure resting 20' below OBF. Below this a large landslide developing, a head scarp showing through lower part of fill failure. Trees on slide are tilted, indicating movement. Treat: excavate fill failure above landslide and endhaul to spoil site. This may unload landslide below, but fill failure doesn't appear to have triggered landslide.																	
60.3015	842	0.530	McCarl	Alden	Storm Pro	Storm Proofing	Culv.-Plug	Storm Proofing	III	0	0	0	10	4	0	\$4,258	111
Private Perm.	842	0.000	ME	5/17/2000		ECP Not	Culv. Replace	Medium	24"	36"	50	0	9	6	220	\$38	111
A 24" on class 3, cmp low gradient and undersized. Road surface draining over OBF causing small gully down fill slope. Treat: replace with 36" cmp to grade add CD right hinge.																	
60.3015	843	0.560	McCarl	Alden	Storm Pro	Storm Proofing	Fill - Road	Storm Proofing	N/A	0	0	0	0	0	0	\$115	44
Private Perm.	843	0.000	ME	6/6/2000		ECP Not	Excavate Soil	Medium	-	-	0	0	0	0	44	\$7	18
Pot. Fill failure above class 3, small crack and scarps visible. Treat: excavate and endhaul 200' to left.																	
60.3015	844	0.610	McCarl	Alden	Storm Pro	Storm Proofing	Culv.-HDP	Storm Proofing	III	0	0	0	1	0	0	\$190	0
Private Perm.	844	0.000	ME	5/26/2000		ECP Not	Dip Critical	Medium	24"	-	0	0	1	0	0	\$0	0
A 24" on a class 3, cmp shallow installed but has DS. Cmp also receives flow from IBD. Cmp has DP to right. Treat: install CD right hinge, grade up channel 20' above inlet.																	
60.3015	845	0.620	McCarl	Alden	Storm Pro	Storm Proofing	Fill - Landing	Storm Proofing	III	0	0	0	2	0	0	\$280	44
Private Perm.	845	0.000	ME	6/6/2000		ECP Not	Excavate Soil	Medium	-	-	0	0	0	2	44	\$6	44
Pot. Landing fill failure above class 3. Treat: excavate, push spoils against cutbank.																	
60.3015	846	0.730	McCarl		Storm Pro	Storm Proofing	Culv.-HDP	Storm Proofing	III	0	0	0	0	0	0	\$75	0
Private Perm.	846	0.000	ME	5/26/2000		ECP Not	Dip Critical	Medium	30"	-	0	0	1	0	0	\$0	0
A 30" cmp on class 3 with DP to right, shows evidence of past diversion causing past failure 40' to right. Treat: install CD right hinge.																	
60.3015	250	0.830	McCarl	Alden	Storm Pro	Storm Proofing	Culv.-HDP-Plug	Storm Proofing	II	0	0	0	10	0	0	\$3,268	116
Private Perm.	848	0.000	ME	5/18/2000		ECP Not	Culv. Replace	High	18"	36"	40	0	5	6	305	\$28	116
A 18' on a class 3, undersized and has diverted to right to 18" DRC this winter. Treat: excavate top to bot establish channel up from bot flag thru old skid. Install 36" to grade add CD right hinge. Endhaul spoils.																	
60.3015	250	0.830	Heath	Alden	99-282	Bailey	Culv.	THP... Not	III	0	0	0	0	0	0	\$0	0
Private Perm.	250	0.000	ME	5/15/2000		ECP Not	Culv. Maintenance	High	24"	-	0	0	0	0	0	\$0	0
Culvert almost plugged.																	
60.3015	849	0.870	McCarl	Alden	Storm Pro	Storm Proofing	Culv.	Storm Proofing	II	0	0	0	12	0	0	\$2,884	50
Private Perm.	849	0.000	ME	5/18/2000		ECP Not	Culv. Replace	Medium	24"	24"	40	0	10	3	111	\$58	50
A rusted 24" on class 3. Treat: replace with 24" at grade.																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
60.3015	850	0.980	McCanl	McCanl	Storm Pro	Storm Proofing	Culv.-Ditch Relief	Storm Proofing	N/A	0	0	0	0	0	0	\$0	0
Private Perm.	850	0.000	Unk	3/8/2000		ECP Not	No Action	Medium	18"	-	0	0	0	0	0	\$0	0
18' DRC no treat.																	
60.3015	5470	1.360	Alden		Maintena	Maintenance	No Problem	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5470	0.000	Unk	6/1/2009		ECP Not	Water Hole	Medium	-	-	0	0	0	0	0	\$0	0
Log Cabin Ranch 5,000 gallon tank takes water from spring below																	
60.3015	851	1.100	McCanl	Alden	Storm Pro	Storm Proofing	Culv.	Storm Proofing	II	0	0	0	3	0	0	\$570	50
Private Perm	851	0.000	ME	6/13/2000		ECP Not	Excavate Soil	Medium	24"	-	0	0	3	0	111	\$11	50
A 24" cmp on a class 3 , cmp has 10' DS that is shotgunned. Crossing large amount of fill that's perched around outlet area. Treat: excavate fill at OBF , push spoils to right to landing , add 40' of DS																	
60.3015	1057	1.100	Pebl	Pebl	Maintena	Maintenance	Cut Bank Failure	Maintenance	N/A	0	0	0	8	0	0	\$760	0
Private Seasonal	1057	2.540	RB	9/12/2000		ECP Not	Excavate Soil	High	-	-	0	0	0	0	0	\$0	0
Ramp over cutbank failures to allow access by 4X4 pickup. Do not sidecast. Repair waterbars. If middle can't be cleared access from both ends okay.																	
60.3015	1384	1.100	Alden	Alden	Maintena	Maintenance	Surface Drainage	Maintenance	N/A	0	0	0	0	0	0	\$188	0
Private Seasonal	1384	2.500	ME	3/15/2001		ECP Not	Waterbar	Medium	-	-	0	0	3	0	0	\$0	0
60.3015	2338	1.100	Alden	Alder.	271 Pep	Pep P0530407	Surface Drainage	Storm Proofing	N/A	0	0	0	61	9	0	\$14,818	636
Storm Proofed	2338	2.400	R&S	12/5/2006		ECP Not	Tip and Dip	Medium	-	-	0	0	60	41	0	\$23	636
Tip and Dip																	
60.3015	1288	1.300	McCanl	Alden	271 Pep	Pep P0530407	Fill - Road	Storm Proofing	III	0	0	0	2	0	0	\$410	163
Storm Proofed	2800	0.000	R&S	10/26/2006		ECP Not	Armored Ford	High	36"	RkFc	0	0	2	0	163	\$3	163
crossing has diversion potential to right also past fill failure with potential for more TREAT excavate remaining unstable fill, use spoil to inslope road and construct critical dip																	
60.3015	1288	1.300	McCanl	Alden	06-163	Sage	Fill - Road	Storm Proofing	III	0	0	0	0	0	0	\$0	163
Private Seasonal	1288	0.000	R&S	10/26/2006		ECP Not	Dip Critical	High	36"	-	0	0	0	0	163	\$0	163
crossing has diversion potential to right also past fill failure with potential for more TREAT excavate remaining unstable fill, use spoil to inslope road and construct critical dip																	
60.3015	1287	1.320	McCanl	Alden	05-163	Sage	Inside ditch	Storm Proofing	N/A	0	0	0	0	0	0	\$472	0
Private Seasonal	1287	0.000	R&S	10/26/2006		ECP Not	Culv. Ditch Relief	Medium	-	18"	40	0	0	0	0	\$0	0
several small springs entering ditch TREAT install DRC clean ditch 150' to left up road out slope road below DRC re align road to eliminate thru cut																	
60.3015	1287	1.320	McCanl	Alder.	271 Pep	Pep P0530407	Inside ditch	Storm Proofing	N/A	0	0	0	4	1	0	\$1,007	0
Storm Proofed	2799	0.000	R&S	11/6/2006		ECP Not	Culv. Ditch Relief	Medium	-	18"	40	0	0	0	0	\$0	0
several small springs entering ditch TREAT install DRC clean ditch 150' to left up road out slope road below DRC re align road to eliminate thru cut																	
60.3015	1286	1.350	McCanl	Alden	271 Pep	Pep P0530407	Fill - Road	Storm Proofing	N/A	0	0	0	4	0	0	\$820	230
Private Seasonal	2798	0.000	R&S	11/6/2006		ECP Not	Excavate Soil	High	-	-	0	0	4	0	360	\$6	138
potential road fill failure with lots of organics also cut bank failure same location TREAT excavate road fill remove organics same with cutbank failure incorporate into road surface																	
60.3015	1286	1.350	McCanl	Alden	06-163	Sage	Fill - Road	Storm Proofing	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	1286	0.000	PW	11/6/2006		ECP Not	Excavate Soil	High	-	-	0	0	0	0	0	\$0	0
potential road fill failure with lots of organics also cut bank failure same location TREAT excavate road fill remove organics same with cutbank failure incorporate into road surface Complete under Pepperwood SB271																	
60.3015	1285	1.380	McCanl	Alden	271 Pep	Pep P0530407	Culv.-Ditch Relief	Storm Proofing	N/A	0	0	0	1	0	0	\$250	67
Storm Proofed	2797	0.000	R&S	10/27/2006		ECP Not	Excavate Soil	Medium	-	-	0	0	2	0	67	\$37	7
18" DRC with cracking fill around outlet TREAT excavate fill incorporate into road																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
60.3015	1285	1.380	McCarl	Alden	05-163	Sage	Culv.-Ditch Relief?	Storm Proofing	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	1285	0.000	PW	10/27/2006		ECP Not	Excavate Soil	Medium	-	-	0	0	0	0	57	\$0	0
18' DRC with cracking fill around outlet TRBAT excavate fill incorporate into road Complete under Pepperwood SB271																	
60.3015	1284	1.390	McCarl	Martina	Maintenance		Cut Bank Failure	Storm Proofing	N/A	0	0	0	2	0	0	\$460	0
Private Seasonal	1284	0.000	R&S	11/15/2006		ECP Not	Excavate Soil	Low	-	-	0	0	2	0	167	\$0	0
remove cutbank failure to widen road use to inslope road to cmp																	
60.3015	1283	1.400	McCarl	Alden	271 Pep	Pep P0530407	Culv.-HDP	Storm Proofing	II	0	0	0	2	0	0	\$555	0
Storm Proofed	2796	0.000	R&S	10/27/2006		ECP Not	Armored Ford	High	-	RkFd	0	0	2	0	50	\$0	0
crossing has diversion potential to right also past fill failure TREAT excavate remaining perched fill use to construct critical dip right hinge																	
60.3015	1283	1.400	McCarl	Alden	06-153	Sage	Culv.-HDP	Storm Proofing	III	0	0	0	0	0	0	\$0	100
Private Seasonal	1283	0.000	R&S	10/27/2006		ECP Not	Armored Ford	High	-	RkFd	0	0	0	0	50	\$0	25
crossing has diversion potential to right also past fill failure TREAT excavate remaining perched fill use to construct critical dip right hinge																	
60.3015	1282	1.440	McCarl	Alden	06-153	Sage	Fill - Road	Storm Proofing	N/A	0	0	0	0	0	0	\$0	122
Private Seasonal	1282	0.000	R&S	10/26/2006		ECP Not	Excavate Soil	High	-	-	0	0	0	0	122	\$0	49
perched road fill between 2 class 3 cracks and scarps showing TREAT excavate fil remove all organics use spoil to inslope road over crossing																	
60.3015	1282	1.440	McCarl	Alden	271 Pep	Pep P0530407	Fill - Road	Storm Proofing	N/A	0	0	0	0	0	0	\$593	122
Storm Proofed	2795	0.000	R&S	10/26/2006		ECP Not	Excavate Soil	High	-	-	0	0	2	2	122	\$12	49
perched road fill between 2 class 3 cracks and scarps showing TREAT excavate fil remove all organics use spoil to inslope road over crossing																	
60.3015	1281	1.450	McCarl	Alden	06-153	Sage	Culv.-HDP	Storm Proofing	III	0	0	0	0	0	0	\$736	177
Private Seasonal	1281	0.000	R&S	10/26/2006		ECP Not	Dip Critical	High	24"	24"	40	0	0	0	0	\$4	177
Plugged culvert has caused fill failure. Clean or install new pipe with debris guard. Pull failing fill and install critical dip right hinge. Reinstall in 1 foot compacted lifts on excavated bench.																	
60.3015	1281	1.450	McCarl	Alden	271 Pep	Pep P0530407	Culv.-HDP	Storm Proofing	III	0	0	0	9	0	0	\$2,839	177
Storm Proofed	2794	0.000	R&S	11/9/2006		ECP Not	Dip Critical	High	24"	24"	40	0	8	10	0	\$16	177
Plugged culvert has caused fill failure. Clean or install new pipe with debris guard. Pull failing fill and install critical dip right hinge. Reinstall in 1 foot compacted lifts on excavated bench.																	
60.3015	1280	1.470	McCarl	Alden	06-163	Sage	Fill - Road	Storm Proofing	N/A	0	0	0	0	0	0	\$0	289
Private Seasonal	1280	0.000	R&S	10/26/2006		ECP Not	Excavate Soil	Medium	-	-	0	0	0	0	289	\$0	58
Excavate road fill and bank failures. Remove all organics use spoil to inslope road between this point and inlet of cmp. Install rolling dip upslope of bank failure in case it fails again so as to keep water off of xing fill.																	
60.3015	1280	1.470	McCarl	Alden	271 Pep	Pep P0530407	Fill - Road	Storm Proofing	N/A	0	0	0	2	0	0	\$230	289
Storm Proofed	2791	0.000	R&S	10/26/2006		ECP Not	Excavate Soil	Medium	-	-	0	0	0	0	289	\$4	58
Excavate road fill and bank failure. Remove all organics use spoil to inslope road between this point and inlet of cmp. Install rolling dip upslope of bank failure in case it fails again so as to keep water off of xing fill.																	
60.3015	1279	1.580	McCarl	Alden	271 Pep	Pep P0530407	Humboldt	Storm Proofing	II	0	0	0	20	4	0	\$6,542	20
Private Seasonal	2790	0.000	R&S	10/23/2007		ECP Not	Culv. Install	High	-	24'	60	0	21	13	556	\$327	20
road crosses swale , flow emerging 20' above during peak event when flowing goes down inside to waterbar no flow present time TREAT excvate top to bot install 24"cmp to grade at location where flow is emerging from bank, rock armour area were flow is emerging to prevent head cutting. As an alternative install rolling dip across road at location where flow emerges from bank. Do not put outlet in same location where it is presently going because it is causing erosion problems far down hill.																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Shedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
60.3015	1279	1.580	Alden	Alden	271	Pep	Pep P0530407	Culv.-Plug	Storm Proofing	II	0	0	0	0	0	\$690	2
Storm Proofed	4524	0.000	R&S	10/23/2007		ECP Not	Culv. Maintenance	Current	-	-	0	0	3	0	0	\$3	200
Open culvert inlet																	
60.3015	1279	1.580	McCarl	Alden	05-163	Sage	Fumblefoot	Storm Proofing	II	0	0	0	17	0	0	\$5,195	353
Private Seasonal	1279	0.000	R&S	10/23/2007		ECP Not	Dip Rolling	High	-	24"	60	0	17	4	355	\$15	353
Install rocked rolling dip across road at location where flow emerges from bank. Do not put outlet in same location where it is presently going because it is causing erosion problems far down hill. Rock armor outside edge. As an alternative excavate top to bottom and install 24" culvert at grade in location where flow emerges from bank. Rock armor area above road where flow emerges.																	
60.3015	1675	1.600	Chidlaw	Chidlaw	Maintenance	Other	Maintenance	Maintenance	N/A	0	0	0	0	0	0	\$437	0
Private Seasonal	1675	2.700	TE	6/1/2001		ECP Not	R/W Treatment	Medium	-	-	0	0	0	15	0	\$0	0
Sprayed pampoo grass with 3 percent Roundup + R11 (trace). Also treated near-road portions of West Pepperwood THP units 1, 2, and 3, recorded under Intensive Silviculture for those units.																	
60.3015	1278	1.700	McCarl	Alden	271	Pep	Pep P0530407	Other	Storm Proofing	N/A	0	0	0	0	0	\$270	0
Storm Proofed	2789	0.000	R&S	10/28/2006		ECP Not	Dip Rolling	Medium	-	-	0	0	3	0	0	\$0	0
small swale from above road no swale visible below spur road leaves road at this point across spur road construct rolling dip across main road, one across spur into redwood clump, and another below clump																	
60.3015	1278	1.700	McCarl	Alden	06-163	Sage	Other	Storm Proofing	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	1278	0.000	R&S	10/28/2006		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
small swale from above road no swale visible below spur road leaves road at this point across spur road construct rolling dip across main road, one across spur into redwood clump, and another below clump																	
60.3015	2777	1.720	Haschak	Pehl	06-163	Sage	Surface Drainage	Maintenance	N/A	0	0	0	1	0	0	\$205	0
Private Seasonal	2777	0.000	R&S	11/9/2006		ECP Not	Dip Rolling	Medium Low	-	-	0	0	1	0	0	\$0	0
Install rolling dip above through cut.																	
60.3015	1277	1.770	McCarl	Alden	271	Pep	Pep P0530407	Fill - Road	Storm Proofing	III	0	0	0	3	0	\$615	120
Storm Proofed	2788	0.000	R&S	10/25/2006		ECP Not	Excavate Soil	High	24"	24"	0	0	3	0	120	\$5	120
road fill perched above outlet of class 3 with 24" cmp with down spout detached and no C.D excavate fill use to inslope road to inlet of cmp, re-attach cmp DS install critical dip right.																	
60.3015	1277	1.770	McCarl	Alden	06-163	Sage	Fill - Road	Storm Proofing	III	0	0	0	0	0	0	\$0	120
Private Seasonal	1277	0.000	R&S	10/25/2006		ECP Not	Excavate Soil	High	24"	-	0	0	0	0	120	\$0	120
road fill perched above outlet of class 3 with 24" cmp with down spout detached and no C.D excavate fill use to inslope road to inlet of cmp, re-attach cmp DS install critical dip right.																	
60.3015	1274	1.770	McCarl	Alden	06-163	Sage	Fill - Road	Storm Proofing	N/A	0	0	0	0	0	0	\$0	444
Private Seasonal	1274	1.820	R&S	10/25/2006		ECP Not	Excavate Soil	High	-	-	0	0	0	0	444	\$0	355
This area extends from 1277 almost to 1273. Excavate any unstable fill and use to outslope road or endhaul to right to spoil site.																	
60.3015	1274	1.770	McCarl	Alden	271	Pep	Pep P0530407	Fill - Road	Storm Proofing	N/A	0	0	0	8	0	\$1,789	444
Private Seasonal	2785	1.820	R&S	12/7/2006		ECP Not	Excavate Soil	High	-	-	0	0	8	3	444	\$5	355
This area extends from 1277 almost to 1273. Excavate any unstable fill and use to outslope road or endhaul to right to spoil site.																	
60.3015	1276	1.790	McCarl	Alden	271	Pep	Pep P0530407	Culv.-HDP	Storm Proofing	II	0	0	0	1	0	\$205	0
Storm Proofed	2787	0.000	R&S	10/25/2006		ECP Not	Dip Critical	High	24"	24"	0	0	1	0	0	\$0	0
add critical dip right hinge, clean inlet																	
60.3015	1276	1.790	McCarl	Alden	06-163	Sage	Culv.-HDP	Storm Proofing	III	0	0	0	0	0	0	\$0	0
Private Seasonal	1276	0.000	R&S	10/25/2006		ECP Not	Dip Critical	High	24"	-	0	0	0	0	0	\$0	0
add critical dip right hinge, clean inlet																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds	
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds	
60.3015	1275	1.800	McCanl	Alden	05-163	Sage	Culv.-HDP	Storm Proofing	III		0	0	0	0	0	\$0	0	
Private Seasonal	1275	0.000	R&S	10/25/2005		ECP Not	Dip Critical	High	18"	-	0	0	0	0	0	\$0	0	
add critical dip right hinge																		
60.3015	1275	1.800	McCanl	Alden	271 Pep	Pep P0530407	Culv.-HDP	Storm Proofing	III		0	0	0	0	0	\$90	0	
Storm Proofed	2786	0.000	R&S	10/25/2005		ECP Not	Dip Critical	High	18"	18"	0	0	1	0	0	\$0	0	
add critical dip right hinge																		
60.3015	1275	1.830	McCanl	Alden	271 Pep	Pep P0530407	Fill - Road	Storm Proofing	N/A		0	0	0	6	18	0	\$2,274	583
Private Seasonal	2784	1.850	R&S	10/25/2006		ECP Not	Excavate Soil	High	-	-	0	0	3	0	583	\$5	437	
road fill failure extending thru swale on 90% slopes, excavate endhaul to right to spur down ridge and use to outslope road. Add rolling dip at swale.																		
60.3015	1273	1.830	McCanl	Alden	06-163	Sage	Fill - Road	Storm Proofing	N/A		0	0	0	0	0	\$0	0	
Private Seasonal	1273	1.850	R&S	10/25/2006		ECP Not	Excavate Soil	High	-	-	0	0	0	0	583	\$0	0	
road fill failure extending thru swale on 90% slopes, excavate endhaul to right to spur down ridge and use to outslope road. Add rolling dip at swale.																		
Complete under Pepperwood SB271																		
60.3015	1272	1.930	McCanl	Alden	271 Pep	Pep P0530407	Dip Rolling	Storm Proofing	N/A		0	0	0	5	1	0	\$943	150
Storm Proofed	2783	0.000	R&S	11/6/2006		ECP Not	Excavate Soil	Medium	-	-	0	0	3	1	0	\$12	83	
perched fill around outlet of rolling dip small gully thru fill. Excavate fill around outlet and 50' to left and right, rock rolling dip and armour outlet area																		
60.3015	1271	1.950	McCanl	Alden	271 Pep	Pep P0530407	Cut Bank Failure	Storm Proofing	N/A		0	0	0	4	4	0	\$895	250
Storm Proofed	2782	0.000	R&S	10/23/2006		ECP Not	Excavate Soil	Medium	-	-	0	0	2	0	260	\$0	0	
large cutbank failure moving into road, excavate endhaul to left down spur																		
60.3015	1272	1.960	McCanl	Alden	06-163	Sage	Dip Rolling	Storm Proofing	N/A		0	0	0	0	0	\$0	150	
Private Seasonal	1272	0.000	R&S	10/24/2006		ECP Not	Excavate Soil	Medium	-	-	0	0	0	0	0	\$0	83	
perched fill around outlet of rolling dip small gully thru fill. Excavate fill around outlet and 50' to left and right, rock rolling dip and armour outlet area																		
60.3015	1270	1.970	McCanl	Alden	271 Pep	Pep P0530407	Fill - Road	Storm Proofing	N/A		0	0	0	13	11	0	\$2,815	625
Storm Proofed	2781	0.000	R&S	10/19/2006		ECP Not	Excavate Soil	High	18"	-	0	0	6	0	525	\$5	563	
excavate road fill endhaul to left to spur down ridge road, inslope road thru swale, clean cmp inlet																		
60.3015	1271	2.020	McCanl	Alden	06-163	Sage	Cut Bank Failure	Storm Proofing	N/A		0	0	0	0	0	\$0	260	
Private Seasonal	1271	0.000	R&S	10/23/2006		ECP Not	Excavate Soil	Medium	-	-	0	0	0	0	260	\$0	0	
large cutbank failure moving into road, excavate endhaul to left down spur																		
60.3015	1270	2.030	McCanl	Alden	06-163	Sage	Fill - Road	Storm Proofing	N/A		0	0	0	0	0	\$0	625	
Private Seasonal	1270	0.000	R&S	10/19/2006		ECP Not	Excavate Soil	High	18"	-	0	0	0	0	625	\$0	563	
excavate road fill endhaul to left to spur down ridge road, inslope road thru swale, clean cmp inlet																		
60.3015	4225	2.050	Alden	Alden	271 Pep	Pep P0530407	Culv.	Storm Proofing	III		0	0	0	13	3	0	\$4,580	100
Storm Proofed	4225	0.000	R&S	5/31/2007		ECP Not	Culv. Install	Medium	-	24"	60	0	15	10	100	\$46	100	
Class III now caught in ditch gets its own culvert																		
60.3015	4225	2.050	Alden	Alden	271 Pep	Pep P0530407	Culv.-Plug	Storm Proofing	III		0	0	0	1	0	0	\$115	1
Storm Proofed	4225	0.000	R&S	7/13/2008		ECP Not	Culv. Maintenance	Current	-	-	0	0	0	0	0	\$115	1	
Clean out culvert inlet. Make sure if it plugs again water runs down to next culvert.																		
60.3015	4225	2.050	Alden	PeHJ	Maintena	Maintenance	Culv.-Plug	Storm Proofing	III		0	0	0	1	0	0	\$121	1
Storm Proofed	5284	0.000	R&S	8/28/2009		ECP Not	Culv. Maintenance	Current	-	-	0	0	0	0	0	\$121	1	
Clean out culvert inlet. The water has stayed in the inside ditch and gone to the next culvert. No delivery																		

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
60.3015	1269	2.210	McCarl	Alden	06-163	Sage	FIL - Road	Storm Proofing	N/A	0	0	0	0	0	0	\$0	304
Private Seasonal	1269	0.000	R&S	10/19/2006		ECP Not	Excavate Soil	Medium	-	-	0	0	0	0	304	\$0	9.
excavate fill remove all woody debris use clean fill to outslope road																	
60.3015	1269	2.210	McCarl	Alden	271 Pep	Pep P6530407	FIL - Road	Storm Proofing	N/A	0	0	0	4	0	0	\$628	304
Storm Proofed	2780	0.000	R&S	10/19/2006		ECP Not	Excavate Soil	Medium	-	-	0	0	0	0	304	\$7	91
excavate fill remove all woody debris use clean fill to outslope road.																	
60.3015	900	2.400	McCarl	Alden	Storm Pro	Storm Proofing	Surface Drainage	Storm Proofing	N/A	0	0	0	0	0	0	\$0	1,137
Storm Proofed	900	4.725	ME	5/1/2000		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	1,137
60.3015	2718	2.400	Pehl	Peal	03-085	Primrose	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2718	3.250	Uns	1/4/2006		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Winter Inspection. Culverts okay.																	
60.3015	1226	2.550	McCarl	Alden	Storm Pro	Storm Proofing	Surface Drainage	Storm Proofing	N/A	0	0	0	35	8	0	\$6,220	0
Private Seasonal	1226	2.900	ME	1/19/2007		ECP Not	Dip Rolling	Medium	-	-	0	0	23	5	0	\$0	0
60.3015	256	2.750	Heath	Alden	99-282	Bailey	Surface Drainage	THP Recon.	N/A	0	0	0	0	0	0	\$0	0
Private Perm.	256	3.220	ME	6/6/2000		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
Start at intersection and outslope road to next intersection mile post 4.0. Out slope road with rolling dips to improve overall drainage of this road segment.																	
60.3015	257	2.850	Heath	Alden	99-282	Bailey	Surface Drainage	THP... Not	III	0	0	0	0	0	0	\$736	0
Private Perm.	257	0.000	ME	6/6/2000		ECP Not	Culv. Install	Medium	24"	24"	40	0	0	0	0	\$0	0
Spring at draw overflows onto road causing wet spot and rutting in soft clay road surface. Install 24"emp 40' to drain.																	
60.3015	257	2.850	McCarl	Alden	Storm Pro	Storm Proofing	Inside ditch	Weather Damage	N/A	0	0	0	0	1	0	\$225	0
Private Seasonal	861	0.000	ME	6/6/2000		ECP Not	Dip Critical	Medium	-	-	0	0	2	0	0	\$0	0
spring flow from cutbank collecting in IBD , flowing right 250' then exiting over OBR. Treat : install rocked rolling dip																	
60.3015	862	2.880	McCarl	Alden	Storm Pro	Storm Proofing	Culv.-HDP-Plug	Storm Proofing	III	0	0	0	1	0	0	\$200	0
Private Seasonal	862	0.000	ME	6/6/2000		ECP Not	Dip Critical	Medium	18"	-	0	0	1	0	0	\$0	0
A 18" emp on a dry class 3 , outlet is buried with slash . Treat: clean inlet and outlet may need to replace , install CD right hinge .																	
60.3015	863	2.890	McCarl	Alden	Storm Pro	Storm Proofing	FIL - Road	Storm Proofing	N/A	0	0	0	2	4	0	\$710	215
Private Seasonal	863	0.000	ME	6/6/2000		ECP Not	Excavate Soil	Medium	-	-	0	0	2	2	215	\$7	108
perched roadfill on steep slopes over class 3 swale. Treat: excavate and endhaul .																	
60.3015	258	2.950	Heath	Alden	99-282	Bailey	FIL - Road	THP Recon	N/A	0	0	0	0	0	0	\$0	0
Private Perm.	258	0.000	ME	6/6/2000		ECP Not	Other	High	24"	-	0	0	0	0	0	\$0	0
Bare fill leading into culvert outlet is causing minor sedimentation to class III draw. Seed and mulch bare fill and road over culvert intersection for 50 feet either side.																	
60.3015	258	2.950	McCarl	Alden	Storm Pro	Storm Proofing	Culv.	Weather Damage	II	0	0	0	1	0	0	\$195	0
Private Seasonal	864	0.000	ME	6/6/2000		ECP Not	Ditch - Clean	Medium	24'	-	0	0	0	0	0	\$0	0
A 24' emp on a class 3 , flow emerging 12' up from cutbank from hole , emp shallow and low gradient , has 60' of DS. Some surface flow draining over OBF causing 1 yrd of erosion. Treat : clean inside ditch inslope road over crossing , seed and mulch all bare soil. Entire fill slope is bare																	
60.3015	865	2.990	McCarl	Alden	Storm Pro	Storm Proofing	Other	Storm Proofing	III	0	0	0	1	1	0	\$225	0
Private Seasonal	865	0.000	ME	6/6/2000		ECP Not	Dip Critical	Medium	-	-	0	0	2	0	0	\$0	0
evidence of channel coming down hillslope , no flow , just during peak events , also spring location , class 3 swale below road . Treat: install rocked rolling dip ,																	
60.3015	132	3.000	Kelly	Kelly	Maintenance	Maintenance	Surface Drainage	Maintenance	N/A	0	0	0	0	0	0	\$1,020	0
Private Seasonal	132	0.000	Unk	2/3/1999		ECP Not	Other	Medium	-	-	0	0	5	0	0	\$0	0

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds	
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds	
60.3015	1374	3.000	McCarl	Alden	Storm Pro	Storm Proofing	Surface Drainage	Storm Proofing	N/A		0	0	0	8	0	\$1,275	0	
Private Seasonal	1374	3.800	ME	1/22/2001		ECP Not	Dip Rolling	Medium	-	-	0	0	6	0	0	\$0	0	
60.3015	259	3.050	Heath		Maintena	Maintenance	Calv	THP Recon.	III		0	0	0	0	0	\$0	0	
Private Perm.	259	0.000	Unk	6/15/2000		ECP Not	Calv. Replace	Medium	-	-	0	0	0	0	0	\$0	0	
Section of fill failure has caused loss of cmp down drain. Loss of fill has caused sedimentation in class III. Install 50 feet of 24" cmp to replace broken section. Replace new fill in 2 foot lifts and compact to bring grade-up to repair fill slope. Stabilize surface with seed and mulch. Consider over lay of putt netting to help stabilize. Use excess material from outslope reconstruction in this road segement for new fill.																		
60.3015	259	3.050	McCarl	Alden	Storm Pro	Storm Proofing	Fill - Road	Weather Damage	III		0	0	0	21	28	0	\$6,054	106
Private Seasonal	867	0.000	ME	6/15/2000		ECP Not	Excavate Soil	High	24"	24"	40	0	15	10	622	\$57	106	
A OBF failure on a class 3 stream. Appears log were used to construct a , close to vertical wall , being keyed into both banks and fill being placed and compacted behind logs a 24" cmp was placed above log and having DS. Appears logs failed , along with fill torrenting down class 3 for 400'. Remaining road prism showing cracks 6' back from OBF. Cmp outlet was smash from failure. But no flow present time. Flow emerging 100' below crossing. Treat: lower road 15' replace cmp with 24' cmp with down spout , inslope road over crossing. Seed and mulch entire area. Endhaul to left to spoil site.																		
60.3015	868	3.250	McCarl	Alden	Storm Pro	Storm Proofing	Fill - Landing	Storm Proofing	N/A		0	0	0	4	0	\$710	44	
Private Seasonal	868	0.000	ME	6/16/2000		ECP Not	Excavate Soil	Medium	-	-	0	0	3	1	444	\$5	133	
Pot. Landing fill failure around headwall of class 3 swale. Landing slash piled up live trees 15'. Channel below 75'. Treat : excavate fill and push spoils to right up skid between roads.																		
60.3015	869	3.520	McCarl	Alden	Storm Pro	Storm Proofing	Fill - Road	Storm Proofing	N/A		0	0	0	2	0	\$175	125	
Private Seasonal	869	0.000	ME	6/14/2000		ECP Not	Excavate Soil	Medium	-	-	0	0	0	0	125	\$0	0	
Pot. Roadfill failure on 75% to 85% slopes , slopes are well covered with oaks and conifers, no delivery from site. Treat : excavate and store spoils at wide area above cutbank.																		
60.3015	4390	3.780	Alden	Alden	RobRds	Robinson SB271	No Problem	Maintenance	N/A		0	0	0	35	0	\$6,288	0	
Private Seasonal	4390	0.000	R&S	11/5/2011		ECP Not	Rock Pit	Medium	-	-	0	0	24	1	0	\$0	0	
This is a ridge top pit. I do not know how big it is. We worked this pit for several days in 2011 and it did not produce much rock. Do not dig here again it is a waste of time. The pit up the road (road point 5690) is much better.																		
60.3015	870	4.060	McCarl	Alden	Storm Pro	Storm Proofing	Fill - Road	Storm Proofing	III		0	0	0	1	0	\$115	44	
Private Seasonal	870	0.000	ME	6/14/2000		ECP Not	Excavate Soil	High	-	-	0	0	0	0	44	\$26	4	
waterbar directed into class swale , slash and spoil pushed 40' down swale , well defined channel below spoil, no flow in class 3. Treat : excavate fill and slash from outlet , use clean slash to armour exposed soil .																		
60.3015	1383	4.725	Alden	Alden	Storm Pro	Storm Proofing	Surface Drainage	Maintenance	N/A		0	0	0	35	2	\$6,855	232	
Storm Proofed	1383	5.200	ME	3/1/2001		ECP Not	Dip Rolling	Medium	-	-	0	0	35	0	0	\$30	232	
60.301501	902	0.000	McCarl	Alden	Storm Pro	Storm Proofing	Surface Drainage	Storm Proofing	N/A		0	0	0	1	0	\$265	98	
Upgraded	902	0.200	ME	5/1/2000		ECP Not	Dip Rolling	Medium	-	-	0	0	2	0	0	\$3	98	
60.301501	269	0.000	Heath	Pehl	99-282	Bailey	Surface Drainage	THP Recon.	N/A		0	0	0	0	0	\$0	0	
Private Perm.	269	0.200	Unk	7/1/2000		ECP Not	Other	High	-	-	0	0	0	0	0	\$0	0	
Road segment to intersection with 60.30150120 has drainage failure which has caused gulying. Install rolling dips where feasible or water bars to control surface drainage.																		
60.301501	5412	0.000	Hasbhek	Peel	10-081	Juniper	Dip Rolling	THP App. Rd.	III		0	0	0	0	0	\$0	0	
Private Seasonal	5412	0.000	Unk	10/15/2014		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0	
Enhance rolling dip so that it drains into class III below road. Class III barely extends above road and this is not a critical issue as outslped road seems to be working well but some water may come down from upslope in large storm event.																		
60.301501	5339	0.210	Alden	Alden	50 Gro	Groshong Prop 50	Surface Drainage	Assessment	N/A		0	0	0	29	0	\$8,926	288	
Storm Proofed	5339	0.800	R&S	9/15/2009		ECP Not	Tip and Dip	Medium	-	-	0	0	31	2	0	\$51	288	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
60.301501	5340	0.530	Alden	Alden	50 Gro	Groshong Prop 50	Cut Bank Failure	Assessment	N/A		0	0	0	0	0	\$135	0
Storm Proofed	5340	0.530	R&S	9/16/2009		ECP Not	Ramp over	Low	-	-	0	0	1	0	0	\$0	0
Ramp over.																	
60.301501	5341	0.670	Alden	Alden	50 Gro	Groshong Prop 50	Temp. Crossing	Assessment	III		0	10	0	3	3	\$1,260	20
Storm Proofed	5341	0.000	R&S	9/16/2009		ECP Not	Armored Ford	Medium	-	Rk/Fd	0	0	2	4	0	\$63	20
Small class III. Rock armor outlet.																	
60.301501	5358	0.710	Alden	Alden	50 Gro	Groshong Prop 50	Temp. Crossing	Assessment	III		0	10	0	2	2	\$835	20
Storm Proofed	5358	0.000	R&S	9/16/2009		ECP Not	Armored Ford	Medium	-	Rk/Fd	0	0	2	4	0	\$42	20
Small class III. Rock armor outlet.																	
60.301501	5342	0.800	Alden	Alden	50 Gro	Groshong Prop 50	Temp. Crossing	Assessment	II		0	0	0	5	5	\$2,275	400
Storm Proofed	5342	0.000	R&S	9/16/2009		ECP Not	Remove Crossing	Medium	-	Pull	0	0	0	5	4	\$6	400
Small class II dig out top to bottom. Spoil material locally																	
60.3015012	903	0.000	McDani	Alden	Storm Pro	Storm Proofing	Surface Drainage	Storm Proofing	N/A		0	0	0	2	0	\$383	196
Upgraded	903	0.400	ME	5/1/2000		ECP Not	Dip Rolling	Medium	-	-	0	0	2	0	0	\$2	196
60.3015012	264	0.000	Hearth	Kelly	99-282	Bailey	Surface Drainage	THP Recon.	N/A		0	0	0	0	0	\$0	0
Private Perm.	264	0.100	Unk	7/1/2000		ECP Not	Other	High	-	-	0	0	0	0	0	\$0	0
Road drainage has failed causing gully in road bed. Close this segment of road following THP hauling and prior to first winter period. Construct water bar spacing to extreme EHR intervals to adequately capture surface runoff from eroding road. Place berms at either end of road segment to block vehicle traffic.																	
60.3015012	5356	0.000	Alden	Alden	50 Gro	Groshong Prop 50	Surface Drainage	Assessment	N/A		0	0	0	10	0	\$3,516	196
Storm Proofed	5356	0.400	R&S	9/11/2009		ECP Not	Tip and Dip	Medium	-	-	0	0	14	0	0	\$18	196
60.3015012	265	0.180	Hearth	Kelly	99-282	Bailey	Stream Bank	THP Recon.	III		0	0	0	0	0	\$0	0
Private Perm.	265	0.000	Unk	7/1/2000		ECP Not	Remove Crossing	High	24	Pull	0	0	0	0	0	\$0	0
Class III watercourse crosses road outside of its natural drainage channel. At the completion of THP hauling, pull culvert and re-establish channel where it belongs. Remove excess fill from road prism/watercourse crossing and seed and mulch bare soil.																	
60.3015012	5459	0.200	Haschak Pehl	10-081	Juniper	Juniper	Dip Rolling	THP App. Rd.	II		0	0	0	0	0	\$0	0
Private Seasonal	5459	0.000	Unk	10/15/2014		ECP Not	Dip Rolling	Low	-	-	0	0	0	0	0	\$0	0
At this point there is an existing rolling dip on a minor class III but it should be maintained and deepened some.																	
60.301501205	267	0.070	Hearth	Pehl	99-282	Bailey	Surface Drainage	THP Recon.	III		0	0	0	0	0	\$0	0
Private Perm.	267	0.000	Unk	10/15/2000		ECP Not	Culv. Install	High	-	-	0	0	0	0	0	\$0	0
60.301501205	266	0.210	Hearth	Pehl	99-282	Bailey	Surface Drainage	THP Recon	Spr.		0	0	0	0	0	\$0	0
Private Perm.	266	0.000	RB	10/15/2000		ECP Not	Culv. Install	High	18"	-	0	0	0	0	0	\$0	0
Spring in road. Construct French drainage or inside ditch to pick-up spring water and direct to new emp. 40 feet to drain.																	
60.301501205	5406	0.240	Haschak Pehl	10-081	Juniper	Juniper	Temp. Crossing	THP App. Rd	III		0	0	0	0	0	\$0	0
Private Seasonal	5406	0.600	Unk	10/15/2014		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Class III temporary xing. If wet at time of operations install 4' by 20' pipe or larger if necessary. Dip out crossing at close.																	
60.3015017	1205	0.000	Pehl	Pehl	Storm Pro	Storm Proofing	Surface Drainage	Storm Proofing	N/A		0	0	0	17	0	\$3,113	538
Upgraded	1205	1.100	ME	12/29/2001		ECP Not	Dip Rolling	Medium	-	-	0	0	15	1	0	\$6	538
Road drainage upgrade on State 40 Loop. Outslope and dip.																	

ASD

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
60.3015017	263	0.080	Heath	Pebl	99-262	Bailey	Surface Drainage	THP Recon.	N/A	0	0	0	0	0	0	\$0	0
Private Perm.	263	0.000	Unk	12/14/2000		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
At intersection of new road construction, install a rolling dip to prevent water coming from road 60.3015017 from eroding new road surface. (Not an issue)																	
60.301511	1081	0.090	Pebl	Pebl	Maintena	Maintenance	No Problem	Maintenance	N/A	0	0	0	0	0	8	\$563	0
Private Seasonal	1081	0.850	RF	10/11/2000		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
Grade road.																	
60.301511	1707	0.850	TE	7/20/2001		ECP Not	R/W Treatment	Medium	-	-	0	0	0	7	0	\$0	0
Sprayed pampas grass with 3 percent Roundup + R11 (trace).																	
60.301511	2708	0.000	Pebl	Pebl	03-039	Primrose	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Perm.	2708	0.800	Unk	12/29/2005		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Cleared culvert inlets.																	
60.301511	2719	0.000	Pebl	Pebl	03-039	Primrose	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Perm.	2719	1.700	Unk	1/4/2006		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Winter Inspection. Culverts okay.																	
60.301511	852	0.120	McCarl	Alden	Storm Pro	Storm Proofing	Culv-HDP	Storm Proofing	III	0	0	0	1	0	0	\$240	0
Private Perm.	852	0.000	ME	5/23/2000		ECP Not	Dip Critical	Medium	24"	-	0	0	1	2	0	\$0	0
A 24" cmp on a class 3, low gradient but functioning well. Road surface draining over OBF causing 1 yrd. Outlet erosion, crossing has DP to left. Treat: clean inlet and outlet, inslope road over crossing or berm around OBF, add CD left hinge.																	
60.301511	853	0.180	McCarl	Alden	Storm Pro	Storm Proofing	Other	Storm Proofing	II	0	0	0	2	0	0	\$248	0
Private Perm.	853	0.000	ME	5/23/2000		ECP Not	Dip Critical	Medium	-	-	0	0	1	0	0	\$0	0
A minor class 3 entering IBD, then flowing down ditch. Treat: install rock rolling dip																	
60.301511	854	0.250	McCarl	Alden	Storm Pro	Storm Proofing	Culv-HDP	Storm Proofing	III	0	0	0	2	0	0	\$305	0
Private Perm.	854	0.000	ME	5/23/2000		ECP Not	Dip Critical	Medium	24"	-	0	0	1	0	0	\$0	0
A 24" cmp on a class 3, cmp is shotgunned but has DS, a past fill failure left bank at outlet of cmp approx. 20 yds. Crossing has DP to left. Treat: add CD left hinge.																	
60.301511	855	0.300	McCarl	Kelly	Storm Pro	Storm Proofing	Slide - Deep	Weather Damage	N/A	0	0	0	15	30	0	\$6,325	0
Private Perm.	855	0.000	Unk	4/3/2000		ECP Not	Excavate Soil	Medium	-	-	0	0	15	5	0	\$0	0
A large outbank slide est. 3000 yds.+ Failure crossed road flowing down gentle hillslope for 200'. Road was cleared by sidecasting spoil that blocked road. Above road a large amount remains, slowly flow down onto road surface. Inside ditch has flow from above this site flowing by slide, this is carrying fine sediment to class 3 down road. Treat: this site will continue to move down into ditch and onto road, could excavate up slope to remove as much as possible to unload. Est. 2000 yds. Could be removed and enhauled 700' to right using 2 to 3 dumps.																	
60.301511	855	0.400	Kelly	Kelly	Maintena	Maintenance	Cut Bank Failure	Maintenance	N/A	0	0	0	0	0	0	\$2,260	0
Private Seasonal	888	0.000	JHB	3/16/2000		ECP Not	Excavate Soil	Medium	-	-	0	0	0	4	0	\$0	0
60.301511	855	0.400	Kelly	Kelly	Maintena	Maintenance	Cut Bank Failure	Maintenance	N/A	0	0	0	26	59	0	\$7,183	0
Private Seasonal	889	0.000	ME	3/31/2000		ECP Not	Excavate Soil	Medium	-	-	0	0	13	0	0	\$0	0
60.301511	857	0.410	McCarl	Alden	Storm Pro	Storm Proofing	Culv-HDP	Storm Proofing	III	0	0	0	1	0	0	\$190	0
Private Perm.	857	0.000	ME	5/23/2000		ECP Not	Dip Critical	Medium	18"	-	0	0	1	0	0	\$0	0
A 18" cmp on a class 3, possible spring, crossing has DP to right. Treat: install CD left hinge and clean inlet and outlet, add 10' of DS.																	
60.301511	857	0.410	Pebl	Pebl	Maintena	Maintenance	Culv	Maintenance	III	0	0	0	9	7	0	\$3,474	50
Private Perm.	2062	0.000	R&S	11/15/2006		ECP Not	Culv Replace	Medium	18"	24"	40	0	9	9	0	\$69	50
Replace rusted out culvert																	

Road #	GIS#	Mile Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
60.301511	858	0.476 McCanl	Alden	Storm Pro	Storm Proofing	Dip Rolling	Storm Proofing	III		0	0	0	5	0	\$1,736	71
Private Perm.	858	0.000 ME	5/23/2000		ECP Not	Culv. Replace	Medium	18"	24"	40	0	5	2	123	\$24	71
A 18" cmp on a class 3, low gradient and shallow, outlet is buried, spoil has been pushed below outlet causing flow to divert to left of channel for 40' before flowing back into channel. Treat: excavate top to bot, try to reach below bot 35' to clear channel, install 24' cmp to grade with CD left hinge.																
60.301511	5455	0.550 Haschak Pebl	10-081	Juniper		Culv.-Ditch Relief	THP App. Rd.	N/A		0	10	0	7	6	\$2,702	0
Private Perm.	5455	0.000 R&S	11/5/2013		ECP Not	Culv. Replace	Medium	18"	18"	40	0	0	7	0	\$0	0
Rusting ditch relief culvert. Replace with 18" by 30" or longer.																
60.301511	1385	0.800 Alden	Alden	Maintena	Maintenance	Surface Drainage	Storm Proofing	N/A		0	0	3	4	0	\$838	0
Private Seasonal	1385	1.850 ME	3/15/2001		ECP Not	Rock Surface	Medium	-	-	0	0	4	0	0	\$0	0
60.301511	860	0.830 McCanl	Alden	Storm Pro	Storm Proofing	Culv.-Ditch Relief	Storm Proofing	N/A		0	0	3	0	0	\$974	0
Private Perm.	860	0.000 ME	5/24/2000		ECP Not	Culv. Replace	Medium	18"	18"	30	0	3	2	0	\$3	0
A 18" DRC draining spring down ditch from ranch house under 60.301511 rd. Cmp is short and traffic has smashed outlet. Treat: remove cmp and install 18" directing outlet across road to garden area.																
60.301511	1674	0.850 Chidlaw	Chidlaw	Maintena	Maintenance	Other	Maintenance	N/A		0	0	0	0	0	\$421	0
Private Seasonal	1674	1.850 TE	6/1/2001		ECP Not	R/W Treatment	Medium	-	-	0	0	0	14	0	\$0	0
Sprayed pampas grass with 3 percent Roundup + R11 (trace). Also treated near-road portions of West Pepperwood THP units 1, 2, and 3.																
60.301511	1213	0.900 McCanl	Alden	Storm Pro	Storm Proofing	Surface Drainage	Storm Proofing	N/A		0	0	0	35	8	\$5,875	0
Private Seasonal	1213	1.850 ME	1/19/2001		ECP Not	Dip Rolling	Medium	-	-	0	0	23	5	0	\$0	0
60.3015113	904	0.000 McCanl	Alden	Storm Pro	Storm Proofing	Surface Drainage	Storm Proofing	N/A		0	0	0	3	0	\$563	83
Upgraded	904	0.170 ME	5/3/2000		ECP Not	Dip Rolling	Medium	-	-	0	0	5	0	0	\$3	83
60.3015113	5414	0.000 Haschak Pebl	10-081	Juniper		Temp. Crossing	THP Non-Road	Swale		0	0	0	0	0	\$0	0
Private Seasonal	5414	0.000 Unk	10/15/2014		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Dip out swale at close of operations.																
60.3015113	5346	0.170 Alden	Alden	Maintena	Maintenance	Surface Drainage	Assessment	N/A		0	0	0	0	0	\$0	196
Upgraded	5346	0.570 Unk	7/10/2000		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	196
This road is in pretty good shape and is a low priority for storm proofing.																
60.3015113	260	0.350 Heath	Kelly	99-282	Bailey	Surface Drainage	THP Recon	N/A		0	0	0	0	0	\$0	0
Private Perm.	260	0.000 Unk	7/1/2000		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
This is a low spot that fills with water from a spring. Upon completion of the THP, LTO will construct a rolling dip to allow drainage. Apply seed and mulch to bare soil.																
60.3015113	5344	0.440 Alden	Kelly	Maintena	Maintenance	Temp. Crossing	Assessment	III		0	0	0	8	0	\$3,380	100
Upgraded	5344	0.000 Unk	7/1/2000		ECP Not	Remove Crossing	Medium	-	Full	0	0	8	0	0	\$24	100
This crossing was pulled but not deep enough.																
60.3015113	5344	0.440 Heath	Kelly	99-282	Bailey	Culv.-Plug	THP New Con.	III		0	0	0	0	0	\$0	0
Private Perm.	261	0.000 Unk	7/1/2000		ECP Not	Remove Crossing	High	-	Full	0	0	0	0	0	\$0	0
This is a class III watercourse. After removing culvert, remove excess fill to bottom of draw to prevent soil from moving down stream. This will close this segment of road. Seed and mulch bare soil.																
60.3015113	261	0.470 Alden	Kelly	99-282	Bailey	No Problem	Assessment	II		0	0	0	0	0	\$0	0
Upgraded	5345	0.000 Unk	7/10/2000		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
This was pulled at time of thp																

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
60.3015113	252	0.520	Heath	Kelly	99-282	Bailey	FII - Road	THP Recon.	N/A	0	0	0	20	0	0	\$2,540	3
Private Perr.	252	0.000	RB	7/10/2000		ECP Not	Other	High	-	-	0	0	0	20	0	\$0	0
<p>Fill failure has reached the class III watercourse. Stabilize fill bare soil with seed and mulch. If soil is too hard and will not take seed, plant conifers. To prevent further failure and water drainage onto fill failure, construct a berm on road on the uphill side. Be sure berm does not drain onto the unstable area. Cut an inside ditch around failure area to prevent upslope surface flow from entering the fill failure. Seed and mulch all bare soil.</p>																	
50.3015113	5464	0.650	Haschak	Haschak	10-081	Juniper	Temp Crossing	THP App. Rd.	III	0	0	0	2	2	0	\$430	30
Private Seasonal	5464	0.000	Unk	6/9/2010		GWDR 1-10-081	No Action	Medium	-	-	0	0	0	0	0	\$14	30
<p>This is an old road that crosses a minor class III and the crossing wasn't pulled properly last time so there has been some erosion of the crossing. However it is not possible to reach this point without putting in a major crossing further up the road so this ECP will have no action. I am documenting this so that some day it might be taken care of if the road is opened up to this point.</p>																	
60.3015113	5343	5.600	Alden	Kelly	Maintena	Maintenance	Temp. Crossing	Assessment	III	0	0	0	6	0	0	\$1,350	150
Upgraded	5343	0.000	Unk	7/10/2000		ECP Not	Remove Crossing	Medium	-	-	0	0	6	0	200	\$9	150
<p>This is poorly pulled and could be improved but too much road would need to be opened to get here..</p>																	
50.301511318	5462	0.000	Haschak	Pehl	10-081	Juniper	Surface Drainage	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5462	0.000	Unk	10/15/2014		GWDR 1-10-081	Tip and Dip	Medium	-	-	0	0	0	0	0	\$0	0
<p>Remove outside berm on this road and outslope.</p>																	
60.301511318	5463	0.000	Haschak	Pehl	10-081	Juniper	Other	THP App. Rd.	II	0	0	0	0	0	0	\$0	0
Private Seasonal	5463	0.000	Unk	10/17/2014		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
<p>Landing not used during logging in 2014.</p>																	
<p>Location of a landing that intrudes 10 to 15 feet into 100 foot WLPZ. Place log along edge of landing during operations. No sidcasting. Seed and mulch at close of operations</p>																	
60.30152	2339	0.000	Alder	Alden	271 Pep	Pep P0530407	Surface Drainage	Storm Proofing	N/A	0	0	0	1	0	0	\$160	147
Storm Proofed	2339	0.300	R&S	10/23/2006		ECP Not	Tip and Dip	Medium	-	-	0	0	1	0	0	\$1	147
<p>Tip and Dip</p>																	
60.30152	1250	0.000	McCarl	Alden	271 Pep	Pep P0530407	FII - Landing	Storm Proofing	N/A	0	0	0	3	0	0	\$705	292
Storm Proofed	1250	0.000	R&S	10/23/2006		ECP Not	Excavate Soil	Medium	-	-	0	0	4	0	252	\$15	44
<p>excavate store locally</p>																	
60.301535	5443	0.000	Alder	Alden	Maintena	Maintenance	No Problem	Assessment	N/A	0	0	0	0	0	0	\$0	0
Not Connected	5443	0.000	Unk	4/27/2010		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
60.301535	2205	0.500	Haschak	Pehl	03-089	Primrose	Temp. Crossing	THP New Con.	Spr.	0	0	0	0	0	0	\$0	0
Private Seasonal	2205	0.000	AL	8/15/2004		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
<p>Install spring drain pipe, remove and dip out at close of operations.</p>																	
60.301535	2176	0.600	Haschak	Pehl	03-089	Primrose	Surface Drainage	THP New Con	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2176	0.000	AL	8/15/2004		ECP Not	Waterbar	Medium	-	-	0	0	0	0	0	\$0	0
<p>At close of operations this road shall have a waterbar placed at the end of it so that water does not drain down the trail toward the slide in the class III</p>																	
60.30153552	5444	0.000	Alder	Alden	Maintena	Maintenance	No Problem	Assessment	N/A	0	0	0	0	0	0	\$0	0
Not Connected	5444	0.000	Unk	4/27/2010		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
60.30154	2364	0.000	Alden	Alden	271 Pep	Pep P0530407	Surface Drainage	Storm Proofing	N/A	0	0	0	56	0	0	\$11,975	606
Storm Proofed	2364	1.240	R&S	1/25/2007		ECP Not	Tip and Dip	Medium	-	-	0	0	60	4	0	\$20	606
<p>Tip and Dip</p>																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds	
Road Class	ID#	End	Crew	Done	Re Pt	ECP Number	Solut ion	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds	
60.30154	2382	0.590	Pehl	Alden	271	Pep	Pep P0530407	Temp. Crossing	III		0	150	0	4	3	0	\$1,133	150
Storm Proofed	2382	0.000	R&S	10/25/2007		ECP Not	Armored Ford	Medium	-	R&Fd	0	0	2	8	150	\$30	58	
Temporary class III crossing, not pulled to grade. Eroding severely. Excavate and rebuild approaches with proper compaction. Install a rock armored crossing.																		
60.30154	2381	0.420	Pehl	Alden	271	Pep	Pep P0530407	Temp. Crossing	II		0	40	0	3	3	0	\$983	50
Storm Proofed	2381	0.000	R&S	10/25/2007		ECP Not	Armored Ford	Medium	-	R&Fd	0	0	2	6	50	\$93	10	
Temp class III crossing, not pulled, just dipped. Road surface is eroding. Install rock armored crossing																		
60.30154	2380	0.450	Pehl	Alden	271	Pep	Pep P0530407	Temp. Crossing	III		0	80	0	5	3	0	\$1,168	150
Storm Proofed	2380	0.000	R&S	10/25/2007		ECP Not	Armored Ford	Medium	-	R&Fd	0	0	3	4	150	\$26	45	
Minor class III temp crossing. Not pulled, just dipped. Road surface is eroding. Install rock armored crossing.																		
60.30154	133	0.500	Kelly	Kelly	Maintena	Maintenance	Surface Drainage	Maintenance	N/A		0	0	0	0	0	\$50	0	
Private Seasonal	133	0.000	Unk	2/3/1999		ECP Not	Other	Medium	-	-	0	0	3	0	0	\$0	0	
60.30154	2379	0.500	Pehl	Alden	271	Pep	Pep P0530407	Surface Drainage	Swale		0	40	0	3	3	0	\$938	25
Storm Proofed	2379	0.000	R&S	10/26/2007		ECP Not	Armored Ford	Medium	-	R&Fd	0	0	3	4	25	\$75	13	
Swale concentrates upslope drainage on road. Install rock armor crossing.																		
60.30154	2378	0.570	Pehl	Alden	271	Pep	Pep P0530407	Surface Drainage	Swale		0	40	0	5	3	0	\$1,168	25
Storm Proofed	2378	0.000	R&S	10/26/2007		ECP Not	Armored Ford	Medium	-	R&Fd	0	0	3	4	25	\$93	13	
Swale concentrates upslope drainage on road. Install rock armor crossing.																		
60.30154	2377	0.590	Pehl	Alden	271	Pep	Pep P0530407	Spring	Spr.		0	0	0	22	17	0	\$5,088	275
Storm Proofed	2377	0.000	R&S	10/29/2007		ECP Not	Culv. Install	Medium	-	R&Fd	0	0	12	6	275	\$74	69	
Spring drains across road. Debris plume and two channels raised in road. Install 30"X60" CMP. Change to French drain and rock armored ford. Alden.																		
60.30154	2376	0.640	Pehl	Alden	271	Pep	Pep P0530407	Temp. Crossing	III		0	80	0	1	3	0	\$655	100
Storm Proofed	2376	0.000	R&S	11/1/2007		ECP Not	Armored Ford	Medium	-	R&Fd	0	0	2	4	100	\$22	30	
Minor class III crossing. Not pulled to stream grade. Downcutting through road surface. Install rock armored crossing.																		
60.30154	2375	0.560	Pehl	Alden	271	Pep	Pep P0530407	Surface Drainage	Swale		0	40	0	7	3	0	\$1,430	25
Storm Proofed	2375	0.000	R&S	11/1/2007		ECP Not	Armored Ford	Medium	-	R&Fd	0	0	4	4	25	\$114	13	
Swale focuses drainage on road. Minor incision in road bed. Install rock armored crossing.																		
60.30154	2374	0.720	Pehl	Alden	271	Pep	Pep P0530407	Temp. Crossing	III		0	80	0	7	6	0	\$1,660	100
Storm Proofed	2374	0.000	R&S	11/2/2007		ECP Not	Armored Ford	Medium	-	R&Fd	0	0	4	1	100	\$33	50	
Minor class III crossing. Incising into road bed. Excavate crossing and road edge. Armor with rock.																		

MSA

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds	
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds	
60.30154	2373	0.759	Pehl	Alden	271	Pep	Pep P0530407	Cut Bank Failure	Storm Proofing	N/A	0	0	0	1	0	0	\$205	125
Storm Proofed	2373	0.000	R&S	11/2/2007		ECP Not	Excavate Soil	Medium	-	-	0	0	1	0	125	\$2	125	
Cut bank failure. Slump material on road may overload road prism.																		
Excavate slump material. End haul or use locally to outslope road.																		
60.30154	2372	0.770	Pehl	Alden	271	Pep	Pep P0530407	Temp. Crossing	Storm Proofing	II	0	0	0	15	6	0	\$2,400	400
Deactivated	2372	0.000	R&S	11/5/2007		ECP Not	Remove Crossing	Medium	-	Pull	0	0	1	3	400	\$8	320	
Abandoned class III crossing not pulled to grade is down cutting																		
Excavate crossing to stream grade.																		
60.30154	2370	0.780	Pehl	Alden	271	Pep	Pep P0530407	Fill - Road	Storm Proofing	N/A	0	0	0	0	0	0	\$385	939
Storm Proofed	2370	0.860	R&S	11/5/2007		ECP Not	Excavate Soil	Medium	-	-	0	0	1	4	900	\$1	695	
Fill failure/Inner Gorge slide below road/Cut bank failures.																		
Abandon road by excavating outside edge, end haul or place material against cutbank, and outslope.																		
60.30154	2368	0.860	Pehl	Alden	271	Pep	Pep P0530407	Fill - Road	Storm Proofing	III	0	0	0	2	3	0	\$905	90
Abandoned Filled	2368	0.000	R&S	11/6/2007		ECP Not	Remove Crossing	Medium	-	Pull	0	0	4	2	90	\$34	27	
Road Crosses Head of Class III watercourse. Flow is eroding road.																		
Excavate stream channel to natural grade and abandon road crossing.																		
60.3015402	2357	0.600	Alden	Alden	271	Pep	Pep P0530407	Surface Drainage	Storm Proofing	N/A	0	0	0	3	0	0	\$615	293
Storm Proofed	2357	0.600	R&S	11/4/2007		ECP Not	Tip and Dip	Medium	-	-	0	0	3	0	0	\$2	293	
Tip and Dip																		
60.3015402	2383	0.130	Pehl	Alden	271	Pep	Pep P0530407	Temp. Crossing	Storm Proofing	III	0	0	0	6	0	0	\$1,995	180
Storm Proofed	2383	0.000	R&S	7/14/2008		ECP Not	Armored Ford	Medium	-	Pull	0	0	7	16	180	\$18	108	
Class III temporary crossing not pulled to grade. Road fill is eroding.																		
Install armored crossing. Pulled instead.																		
60.3015402	2384	0.210	Pehl	Alden	271	Pep	Pep P0530407	Spring	Storm Proofing	Spr.	0	0	0	7	0	0	\$1,538	600
Private Seasonal	2384	0.000	R&S	7/14/2008		ECP Not	Dip Critical	Medium	-	-	0	0	7	5	600	\$5	500	
Water from bank seep runs down insloped road.																		
Outslope road. Install large dip to cross drain seep.																		
60.3015402	2385	0.270	Pehl	Alden	271	Pep	Pep P0530407	Temp. Crossing	Storm Proofing	III	0	0	0	13	8	0	\$3,310	800
Private Seasonal	2385	0.000	R&S	7/14/2008		ECP Not	Remove Crossing	Medium	-	Pull	0	0	11	5	800	\$5	720	
Class III temp crossing, not pulled to stream grade. Road fill is deeply incised.																		
Excavate to natural stream grade.																		
60.3015402	2386	0.300	Pehl	Alden	271	Pep	Pep P0530407	Spring	Storm Proofing	Spr.	0	0	0	1	0	0	\$205	180
Private Seasonal	2386	0.000	R&S	7/14/2008		ECP Not	Excavate Soil	Medium	-	-	0	0	1	0	180	\$4	54	
Water from bank seep runs down insloped road. Road fill edge is over steepened.																		
Excavate road edge and use to outslope road. Install large dips at seeps, if present.																		
60.3015402	2387	0.420	Pehl	Alden	271	Pep	Pep P0530407	Temp. Crossing	Storm Proofing	III	0	0	0	25	11	0	\$3,365	500
Private Seasonal	2387	0.000	R&S	7/11/2008		ECP Not	Remove Crossing	Medium	-	Pull	0	0	15	7	500	\$36	150	
Temp crossing not pulled to grade. Road fill is eroding.																		
Excavate crossing down to natural stream grade.																		

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
60.3015402	4694	0.600	Alden	Alden	Maintena	Maintenance	No Problem	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Abandoned Lega	4694	1.500	Unk	8/9/2008		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
60.3015402005	5514	0.000	Alden	Alden	Maintena	Maintenance	Surface Drainage	Assessment	N/A	0	0	0	8	0	0	\$1,640	196
Storm Proofed	5514	0.400	R&S	6/12/2008		ECP Not	Tip and Dip	Medium	-	-	0	0	8	0	0	\$8	196
60.3015402007	5515	0.000	Alden	Alden	Maintena	Maintenance	No Problem	Assessment	N/A	0	0	0	0	0	0	\$0	0
No. Connected	5515	0.250	Unk	6/1/1997		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0
60.301552	2359	0.000	Alden	Alden	271 Pep	Pep P0530407	Surface Drainage	Storm Proofing	N/A	0	0	0	5	0	0	\$1,115	122
Storm Proofed	2359	0.250	R&S	1/26/2007		ECP Not	Tip and Dip	Medium	-	-	0	0	5	2	0	\$9	122
Tip and Dip																	
60.301552	5437	0.240	Pehl	Alden	271 Pep	Pep P0530407	No Problem	Maintenance	II	0	0	0	0	0	0	\$135	10
Storm Proofed	5437	0.000	R&S	1/26/2007		ECP Not	Dip Critical	Medium	-	-	0	0	1	0	0	\$14	10
Slide below road has undermined the fill. Excavate road edge. Outslope and abandon road segment. Leave passable for ATV.																	
60.301552	5436	0.250	Alden	Alden	271 Pep	Pep P0530407	Surface Drainage	Assessment	N/A	0	0	0	11	1	0	\$3,347	247
Deactivated	5436	0.755	R&S	1/26/2007		ECP Not	Tip and Dip	Medium	-	-	0	0	11	2	0	\$14	247
Tip and Dip																	
60.301552	1417	0.000	Pehl	Alden	271 Pep	Pep P0530407	Fill - Road	Maintenance	II	0	0	0	3	0	0	\$615	70
Storm Proofed	1417	0.000	R&S	1/26/2007		ECP Not	Excavate Soil	Medium	-	-	0	0	3	0	0	\$13	49
Slide below road has undermined the fill. Excavate road edge. Outslope and abandon road segment. Leave passable for ATV.																	
60.30155247	2371	0.000	Alden	Alden	271 Pep	Pep P0530407	Surface Drainage	Storm Proofing	N/A	0	0	0	2	0	0	\$410	49
Deactivated	2371	0.100	R&S	1/25/2007		ECP Not	Tip and Dip	Medium	-	-	0	0	2	0	0	\$8	49
Tip and Dip																	
60.30155247	5438	0.100	Alden	Alden	271 Pep	Pep P0530407	Surface Drainage	Assessment	N/A	0	0	0	0	0	0	\$0	153
Deactivated	5438	0.412	R&S	1/25/1996		ECP Not	Tip and Dip	Medium	-	-	0	0	0	0	0	\$0	153
This road is barely connected and is not delivering.																	
60.30155247	5439	0.100	Alden	Alden	271 Pep	Pep P0530407	No Problem	Assessment	II	0	0	0	0	0	0	\$0	0
Deactivated	5439	0.000	R&S	1/25/1996		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0
This crossing was dug out after logging in the late 90s																	
60.30157	1382	0.000	Pehl	Keily	Storm Pro	Storm Proofing	Surface Drainage	Storm Proofing	N/A	0	0	0	0	0	0	\$0	538
Upgraded	1382	1.100	ME	12/29/2001		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	538
60.30157	5505	0.000	Chidlaw	Chidlaw	Maintena	Maintenance	Other	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5503	1.140	Unk	8/25/2009		ECP Not	Herbicides	Medium	-	-	0	0	0	0	0	\$0	0
60.30157	995	5.400	Pehl	Pehl	96-404	Lowery Openings	Surface Drainage	THP Clean Up	N/A	0	0	0	0	0	0	\$75	0
Private Seasonal	995	0.000	RB	12/5/2000		ECP Not	Waterbar	THP Low	-	-	0	0	1	0	0	\$0	0
Cut bank seep. Drain across road with waterbar or dip.																	
60.30157048	1207	0.000	Pehl	Pehl	Storm Pro	Storm Proofing	Surface Drainage	Storm Proofing	N/A	0	0	0	5	0	0	\$828	147
Upgraded	1207	0.900	ME	12/29/2001		ECP Not	Dip Rolling	Medium	-	-	0	0	4	0	0	\$6	147
Road drainage upgrade on State 40 Loop. Outslope and dip.																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solut ion	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
60.301574	1208	0.000	Pehl	Pehl	Storm Pro	Storm Proofing	Surface Drainage	Storm Proofing	N/A	0	0	0	6	0	0	\$1,153	196
Upgraded	1208	0.400	ME	12/29/2001		ECP Not	Dip Rolling	Medium	-	-	0	0	6	0	0	\$6	196
Road drainage upgrade on State 40 Loop. Outslope and dip.																	
60.301582	5703	0.000	Chidlaw	Chidlaw	Maintena	Maintenance	Other	Maintenance	N/A	0	0	0	0	0	0	\$459	0
Private Seasonal	5703	0.740		8/1/2011		ECP Not	Herbicides	Medium	-	-	0	0	0	12	0	\$0	0
60.301589	5502	0.000	Chidlaw	Chidlaw	Maintena	Maintenance	Other	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5502	1.100	Unk	8/25/2009		ECP Not	Herbicides	Medium	-	-	0	0	0	0	0	\$0	0
60.3038	555	0.000	Kelly	Kelly	Maintena	Maintenance	Surface Drainage	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	555	1.900	St.	10/30/1999		ECP Not	Dip Rolling	Medium	-	-	0	0	9	0	0	\$0	0
60.3038	111	0.010	Woolsey	Alder	99-242	Westside Flat	Temp. Crossing	THP App. Rd.	I	0	0	0	0	0	0	\$0	0
Private Seasonal	111	0.000	Unk	1/27/1999		ECP Not	Temp. Crossing	Medium	24"	24"	0	0	0	0	0	\$0	0
At least three 24 inch CMP's shall be installed into the river course, and ramped over with local gravel.																	
60.3038	5513	0.010	Alden	Pehl	Maintena	Maintenance	No Problem	Maintenance	I	0	38	0	13	10	0	\$2,730	0
Private Seasonal	5513	0.000	R&S	6/23/2001		ECP Not	Rock Surface	Medium	-	-	0	0	5	0	0	\$0	0
Improved the east approach to the crossing.																	
60.3038	111	0.010	Haschak	Bennett	11-087	Kestrel	Temp. Crossing	THP App. Rd.	I	0	0	0	0	0	0	\$0	0
Private Seasonal	5534	0.000	Unk	8/26/2015		ECP Not	Temp. Crossing	Medium	-	18RBr	0	0	0	0	0	\$0	0
See 1600 agreement for conditions.																	
60.3038	113	0.200	Woolsey		99-242	Westside Flat	No Problem	THP App. Rd.	III	0	0	0	0	0	0	\$0	0
Private Seasonal	113	0.000	Unk	7/1/2000		ECP Not	No Action	Medium	24"	-	0	0	0	0	0	\$0	0
60.3038	113	0.200	Haschak	Bennett	11-087	Kestrel	Culv	THP App. Rd.	III	0	0	0	0	0	0	\$0	0
Private Seasonal	4497	0.000	Unk	5/31/2015		ECP Not	Excavate Soil	Medium	-	-	0	0	0	0	0	\$0	0
Dig out upper end of culvert.																	
60.3038	2264	0.280	Haschak	Bennett	11-087	Kestrel	Other	THP Non-Road	II	0	0	0	0	0	0	\$0	0
Private Seasonal	2264	0.000	Unk	8/31/2015		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
Landing near minor class III This landing can be expanded to both sides of the culvert if berms or logs are placed on the road near both ends of the culvert so that dirt is not pushed into the channel. Otherwise just use the area north of the culvert and place a log berm on the southeast edge between the landing and the channel. Seed and mulch landing.																	
60.3038	663	0.600	Kelly	Kelly	Maintena	Maintenance	Surface Drainage	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	663	0.600	RR	12/22/1999		ECP Not	Waterbar	Medium	-	-	0	0	0	26	0	\$0	0
60.3038	115	0.400	Woolsey		99-242	Westside Flat	No Problem	THP App. Rd.	III	0	0	0	0	0	0	\$0	0
Private Seasonal	115	0.000	Unk	7/1/2000		ECP Not	No Action	Medium	24"	-	0	0	0	0	0	\$0	0
60.3038	114	0.410	Haschak	Bennett	11-087	Kestrel	Surface Drainage	Storm Proofing	Spr.	0	0	0	0	0	0	\$0	0
Private Seasonal	2209	0.000	Unk	8/31/2015		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
Create rolling dip, keep outlet in same location as present water bar (flags are in this location) so as to not create new class III erosion downhill																	
60.3038	2179	0.420	Haschak	Bennett	11-087	Kestrel	Surface Drainage	Storm Proofing	Spr.	0	0	0	0	0	0	\$0	0
Private Seasonal	2179	0.000	Unk	8/31/2015		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
create rolling dip, keep outlet in same location as present water bar (flags are in this location) so as to not create new class III erosion downhill																	
60.3038	116	0.600	Woolsey		99-242	Westside Flat	No Problem	THP App. Rd.	I	0	0	0	0	0	0	\$0	0
Private Seasonal	116	0.000	Unk	7/1/2000		ECP Not	No Action	Medium	48"	-	0	0	0	0	0	\$0	0

AS/

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
60.3038	116	0.600	Haschak Bennett	11-087	Kestrel		Criv.	THP App. Rd.	II	0	0	0	9	7	0	\$3,525	207
Private Seasonal	4498	3.000	Unk	8/31/2015		GWDR 1-11-087 SO	Remove Crossing	Medium	-	-	0	0	9	12	0	\$18	200
<p>Fill over culvert has eroded half way thru road probably because of reduced capacity from partial plugging but possibly because of culvert sections becoming disconnected in center. Downstream end of culvert also is rusted thru. Old 48" culvert will be replaced with 72" culvert or crossing will be pulled at close of operations. As an option, crossing can be turned into a rocked ford at close of operations. If water is present dam and pump water around site while working (see 1600 permit for details).</p>																	
60.3038	2180	0.690	Haschak Bennett	11-087	Kestrel		Surface Drainage	Storm Proofing	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2180	0.000	Unk	8/26/2015		FCP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
<p>create rolling dip in order to intercept surface flow which is rilling road to the north, exact location is not critical</p>																	
60.3038	2181	0.750	Haschak Bennett	11-087	Kestrel		Surface Drainage	Storm Proofing	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2181	0.000	Unk	8/26/2015		FCP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
<p>enhance rolling dip and drain inside ditch, keep existing outlet point (flagged)</p>																	
60.3038	117	0.830	Haschak Bennett	11-087	Kestrel		Surface Drainage	Storm Proofing	III	0	0	0	0	0	0	\$0	0
Private Seasonal	2182	0.000	Unk	8/26/2015		FCP Not	Ditch - Clean	Medium	-	-	0	0	0	0	0	\$0	0
<p>Enhance inside ditch or tilt road from this point to point #8 so that discharge from underground water pipe stays off the road</p>																	
60.3038	2183	0.850	Haschak Bennett	11-087	Kestrel		Surface Drainage	Storm Proofing	III	0	0	0	0	0	0	\$0	0
Private Seasonal	2183	0.000	Unk	8/26/2015		FCP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
<p>Enhance rolling dip, Rock armor outlet.</p>																	
60.3038	118	1.000	Woolsey	59-242	Westside Fla.		No Problem	THP App. Rd.	II	0	0	0	0	0	0	\$0	0
Private Seasonal	118	0.000	Unk	7/1/2000		ECP Not	No Action	Medium	36"	-	0	0	0	0	0	\$0	0
60.3038	118	1.000	Haschak Bennett	11-087	Kestrel		Culv. Plug	THP App. Rd.	III	0	0	0	0	0	0	\$0	0
Private Seasonal	4499	0.000	Unk	8/26/2015		ECP Not	Excavate Soil	Medium	-	-	0	0	0	0	0	\$0	0
<p>Dig out head of culvert. Spoils can be placed above road and north of watercourse to create berm so that watercourse goes into culvert.</p>																	
60.3038	2184	1.260	Haschak Bennett	11-087	Kestrel		Surface Drainage	Storm Proofing	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2184	0.000	Unk	8/26/2015		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
<p>Enhance rolling dip, use existing outlet. There are places along this road between point #8 and #9 where operator can install additional rolling dips at his discretion.</p>																	
60.3038	119	1.350	Haschak Bennett	11-087	Kestrel		Temp. Crossing	Storm Proofing	II	0	0	0	0	0	0	\$0	0
Private Seasonal	2185	0.000	Unk	8/26/2015		FCP Not	Vented Ford	Medium	-	-	0	0	0	0	0	\$0	0
<p>If wet install temporary 4" or larger pipe. Sandbags filled with clean gravel shall be used to construct a coffer dam. The pipe within the crossing prism shall be covered with a layer of straw and then dirt to create a running surface. If no water is present then place dirt on top of a straw layer to create a running surface without a culvert. If no water is present then no coffer dam or sandbags will be required. Remove all crossing material and spread on road prior to winter period. Seed and mulch approaches at close of operations or before winter period.</p>																	
60.3038	120	1.460	Haschak Bennett	11-087	Kestrel		Temp. Crossing	Storm Proofing	II	0	0	0	0	0	0	\$0	0
Private Seasonal	2186	0.000	Unk	8/26/2015		ECP Not	Vented Ford	Medium	-	-	0	0	0	0	0	\$0	0
<p>If wet install temporary 4" or larger pipe. Sandbags filled with clean gravel shall be used to construct a coffer dam. The pipe within the crossing prism shall be covered with a layer of straw and then dirt to create a running surface. If no water is present then place dirt on top of a straw layer to create a running surface without a culvert. If no water is present then no coffer dam or sandbags will be required. Remove all crossing material and spread on road prior to winter period. Seed and mulch approaches at close of operations or before winter period.</p>																	
60.3038	121	1.660	Haschak Bennett	11-087	Kestrel		Temp. Crossing	Storm Proofing	II	0	0	0	0	0	0	\$0	0
Private Seasonal	2187	0.000	Unk	8/26/2015		ECP Not	Vented Ford	Medium	-	-	0	0	0	0	0	\$0	0
<p>If wet install temporary 4" or larger pipe. Sandbags filled with clean gravel shall be used to construct a coffer dam. The pipe within the crossing prism shall be covered with a layer of straw and then dirt to create a running surface. If no water is present then place dirt on top of a straw layer to create a running surface without a culvert. If no water is present then no coffer dam or sandbags will be required. Remove all crossing material and spread on road prior to winter period. Seed and mulch approaches at close of operations or before winter period.</p>																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Leff D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
60.3038	122	1.770	Haschak Bennett	11-087	Kestrel		Temp. Crossing	Storm Proofing	II		0	0	0	0	0	\$0	0
Private Seasonal	2188	0.000	Unk	8/25/2015		ECP Not	Vented Ford	Medium	-	-	0	0	0	0	0	\$0	0
If wet install temporary 4" or larger pipe. Sandbags filled with clean gravel shall be used to construct a coffer dam. The pipe within the crossing prism shall be covered with a layer of straw and then dirt to create a running surface. If no water is present then place dirt on top of a straw layer to create a running surface without a culvert. If no water is present then no coffer dam or sandbags will be required. Remove all crossing material and spread on road prior to winter period. Seed and mulch approaches at close of operations or before winter period.																	
60.3038	123	1.830	Haschak Bennett	11-087	Kestrel		Culv.-Plug	Storm Proofing	II		0	0	0	0	0	\$0	0
Private Seasonal	2189	0.000	Unk	8/26/2015		ECP Not	Culv. Maintenance	Medium	-	-	0	0	0	0	0	\$0	0
Install large woody debris energy dissipater below culvert outlet. Clean head of culvert if necessary.																	
60.3038	2190	1.850	Haschak Bennett	11-087	Kestrel		Surface Drainage	Storm Proofing	Spr.		0	0	0	0	0	\$0	0
Private Seasonal	2190	0.000	Unk	8/26/2015		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
Enhance rolling dip in order to drain inside spring area and outslope the road from just north of this point and southward to point #16 so that the whole area drains or as an alternative install 4" pipe to drain springy area. Road can be widened towards the inside edge but log should be placed on outside edge at slide for safety. No sidecasting during work on this site.																	
60.3038	2191	1.880	Haschak Bennett	11-087	Kestrel		Culv.-Plug	Storm Proofing	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2191	0.000	Unk	8/26/2015		ECP Not	Culv. Maintenance	Medium	-	-	0	0	0	0	0	\$0	0
Install rock armor or large woody debris energy dissipater below culvert outlet. Outslope road north of this point. See road point #15.																	
60.303806	5848	0.000	Chidlaw Chidlaw Maintena		Maintenance		Other	Maintenance	N/A		0	0	0	0	0	\$52	0
Private Seasonal	5848	0.200		8/7/2012		ECP Not	Herbicides	Medium	-	-	0	0	0	0	0	\$0	0
60.303806	2245	0.010	Haschak Bennett	11-087	Kestrel		Other	THP Non-Road	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2245	0.000	Unk	8/31/2015		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
Seed and mulch landing at close of operations. Waterbar top of haul road that leads down to the Gualala.																	
Bennett spoke to Kim Sone on 8/28/15. Waterbar is being left out due to throughout.																	
60.303806	2244	0.160	Haschak Bennett	11-087	Kestrel		Other	THP Non-Road	II		0	0	0	0	0	\$0	0
Private Seasonal	2244	0.000	Unk	8/31/2015		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
WLPZ landing. Place log or earth berm approximately 25 feet from class II watercourse. Leave in place at close of operations. Seed and mulch landing.																	
60.303806	2177	0.180	Haschak Bennett	11-087	Kestrel		Temp. Crossing	Storm Proofing	Swale		0	0	0	0	0	\$0	0
Private Seasonal	2177	0.000	Unk	8/31/2015		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Move existing rolling dip 20 feet north so that runoff is intercepted and directed across road.																	
60.303806	2157	0.180	Haschak Bennett	11-087	Kestrel		Temp. Crossing	Storm Proofing	III		0	0	0	0	0	\$0	0
Private Seasonal	2157	0.000	Unk	8/31/2015		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Enhance and maintain existing rolling dip																	
60.30380605	2469	0.000	Alder	Pebl	00-391	Terrapin Station	Surface Drainage	THP Not	N/A		0	0	0	0	0	\$0	244
Storm Proofed	2469	0.500	AL	9/5/2004		ECP Not	Tip and Dip	Medium	-	-	0	0	0	0	0	\$0	244
60.30380605	2686	0.000	Pebl	Pebl	00-391	Terrapin Station	No Problem	THP Maint Insp	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2686	0.450	Unk	12/28/2005		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Wet weather inspection. Pipes okay. Everything very wet after 5" of rain in previous 24 hours.																	
60.30380605	5849	0.000	Chidlaw Chidlaw Maintena		Maintenance		Other	Maintenance	N/A		0	0	0	0	0	\$157	0
Private Seasonal	5849	0.500		8/1/2012		ECP Not	Herbicides	Medium	-	-	0	0	0	0	0	\$0	0

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Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
60.30380605	800	0.020	McCanl	Pehl	00-391	Terrapin Station	Culv.-HDP	THP New Con.	II		0	0	0	0	0	\$90	0
Private Seasonal	800	0.000	AL	10/15/2004		ECP Not	Dip Critical	Medium	30"	-	0	0	0	0	0	\$0	0
a 30" cmp on a class 2 a new install OK but not to grade. Cmp has DP to left. Treat : add CD left hinge and clear inlet area.																	
60.30380605	800	0.020	Woolsey	Pehl	00-391	Terrapin Station	Dip Critical	THP App. Rd.	III		0	0	0	0	0	\$0	0
Private Seasonal	126	0.000	Unk	12/31/2004		ECP Not	Dip Critical	Medium	-	-	0	0	0	0	0	\$0	0
60.30380605	800	0.020	Woolsey	Pehl	00-391	Terrapin Station	Dip Critical	THP App. Rd.	III		0	0	0	0	0	\$0	0
Private Seasonal	125	0.000	Unk	12/31/2004		ECP Not	Dip Critical	Medium	-	-	0	0	0	0	0	\$0	0
60.30380605	801	0.150	McCanl	Pehl	00-391	Terrapin Station	Culv	THP New Con.	II		0	0	0	3	0	\$1,006	23
Private Seasonal	801	0.000	AL	10/15/2004		ECP Not	Culv. Replace	Medium	18"	24"	40	0	3	3	120	\$50	23
a 18" cmp on a class 3 flow goes sub-surface 10' above inlet and emerges 35' below outlet treat: replace with 24" cmp to grade install CD add DS if needed																	
60.30380605	802	0.160	McCanl	Pehl	00-391	Terrapin Station	Inside ditch	THP New Con.	N/A		0	0	0	2	0	\$652	0
Private Seasonal	802	0.000	AL	10/15/2004		ECP Not	Culv. Ditch Relief	Medium	-	18"	40	0	2	2	0	\$0	0
install 18" DRC to disconnect ditch from site #59																	
60.30380605	803	0.200	McCanl	Pehl	00-391	Terrapin Station	Culv.-HDP-Plug	THP New Con.	III		0	0	0	4	0	\$1,096	50
Private Seasonal	803	0.000	AL	10/15/2004		ECP Not	Culv. Replace	Medium	18"	24"	40	0	4	2	150	\$22	50
a 18" cmp on a class 3 inlet overgrown with willows and outlet covered with logging slash cmp shallow installed and has DP to left. Treat : replace with 24" to grade add CD left hinge , add DS if needed.																	
60.30380605	804	0.250	McCanl	Pehl	00-391	Terrapin Station	Other	THP New Con.	III		0	0	0	4	0	\$1,096	0
Private Seasonal	804	0.000	AL	10/15/2004		ECP Not	Culv. Install	Medium	-	24"	40	0	4	2	80	\$0	0
a well defined swale above and below road 20' above inlet sub-surface flow visible in sink 1' deep . Flow emerges 20' below OBR. Treat: install 24" cmp to grade , grade up channel 30' to small redwood clump to establish channel to inlet add CD left hinge.																	
60.30380605	805	0.350	McCanl	Pehl	00-391	Terrapin Station	Culv.-HDP	THP New Con.	III		0	0	0	3	0	\$1,006	0
Private Seasonal	805	0.000	AL	10/15/2004		ECP Not	Culv. Replace	Medium	18"	24"	40	0	3	3	0	\$0	0
a 18" cmp on a seasonal class 3 cmp shallow installed with 4yds. Outlet erosion treat: replace with 24" cmp to grade add CD, add DS if needed.																	
60.304701	1683	0.000	Pehl	Pehl	99-282	Bailey	Surface Drainage	Maintenance	N/A		0	0	0	0	0	\$240	0
Private Seasonal	1683	0.280	Su	7/10/2001		ECP Not	Waterbar	Medium	-	-	0	0	3	0	0	\$0	0
Big waterbars to replace the little ones that failed.																	
60.3051	2115	0.000	Bennett	Pehl	98-318	Pepperwood_98	No Problem	THP Maint Insp	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2115	0.000	Unk	2/10/2002		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0
60.3051	2117	0.000	Bennett	Bennett	96-063	Little Pepper	No Problem	THP Maint Insp	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2117	0.000	Unk	2/10/2002		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0
60.3051	2116	0.000	Bennett	Bennett	96-028	Upper Big Pepperwo	No Problem	THP Maint Insp	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2116	0.000	Unk	2/10/2002		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0
60.3051	2675	0.000	Pehl	Pehl	98-318	Pepperwood_98	No Problem	THP Maint Insp	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2675	3.200	Unk	12/23/2005		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Winter Inspection. Road Blocked by root wad at 0.68 and numerous trees elsewhere.																	
60.3051	2343	0.000	Alden	Alden	271 Pep	Pep P0532407	Surface Drainage	Storm Proofing	N/A		0	0	0	45	7	\$9,300	1,467
Storm Proofed	3984	3.000	R&S	4/23/2007		ECP Not	Tip and Dip	Medium	-	-	0	0	40	0	0	\$6	1,467
Tip and Dip																	

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Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds	
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds	
60.3051	5698	0.000	Chidlaw	Chidlaw	Maintena	Maintenance	Other	Maintenance	N/A		3	0	0	0	0	\$1,457	0	
Private Seasonal	5698	2.960		8/1/2011		ECP Not	Herbicides	Medium	-	-	3	0	0	39	0	\$0	0	
60.3051	2386	0.040	Alden	Pehl	271	Pep	Pepp P0530407	Bridge	Storm Proofing	I		0	0	0	31	26	\$21,825	0
Private Seasonal	2386	0.000	R&S	8/7/2008		ECP Not	Bridge - Penn	Medium	RRBr	1RRB:	53	0	51	16	0	\$0	0	
Instal munche block abutments and a new steel decked bridge.																		
60.3051	2059	0.120	Pehl	Peh	Maintena	Maintenance	Surface Drainage	Maintenance	N/A		0	0	0	3	0	\$500	64	
Upgraded	2059	0.250	ME	8/29/2002		ECP Not	Dip Rolling	Medium	-	-	0	0	3	0	0	\$9	64	
60.3051	4607	0.130	Alden	Alden	271	Pep	Pepp P0530407	Surface Drainage	Storm Proofing	N/A		0	0	0	16	5	\$7,625	39
Storm Proofed	4607	0.210	R&S	5/14/2008		ECP Not	Tip and Dip	Medium	-	-	0	0	48	8	600	\$134	57	
Remove berm fill in through cut.																		
60.3051	4615	0.240	Alden	Alden	271	Pep	Pepp P0530407	Culv-Ditch Relief	Storm Proofing	N/A		0	0	0	7	0	\$2,907	0
Private Seasonal	4615	0.000	R&S	5/23/2008		ECP Not	Culv. Install	Medium	-	18"	80	0	11	2	0	\$0	0	
60.3051	2967	0.250	Pehl	Pehl	Maintena	Maintenance	Surface Drainage	Maintenance	N/A		0	0	0	9	0	\$1,035	1,320	
Upgraded	2967	2.950	R&S	6/6/2006		ECP Not	Tip and Dip	Medium	-	-	0	0	9	0	0	\$1	1,320	
60.3051	49	0.350	Lewicki	Peh.	98-318	Pepperwood_98	Surface Drainage	THP New Con.	N/A		0	0	0	3	0	\$360	0	
Private Seasonal	49	3.000	ME	11/15/2002		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0	
Rock lined dry ford																		
60.3051	1315	0.560	McCanl	Alden	271	Pep	Pepp P0530407	Emboid.	Storm Proofing	III		0	0	0	13	3	\$4,192	15
Private Seasonal	1315	0.000	R&S	8/12/2008		ECP Not	Excavate Soil	High	-	24"	60	0	9	10	593	\$279	15	
fill crossing on class 3 12' to 16' redwoods at outlet indicating buried logsflow crosses road in waterbar TREAT excavate top to bot install emp to grade add critical dip																		
60.3051	50	1.700	Lewicki	Peh.	98-318	Pepperwood_98	Slide - Deep	THP New Con.	N/A		0	0	0	0	0	\$0	0	
Private Seasonal	50	0.000	Unk	7/1/2001		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0	
Outslope road																		
60.3051	51	1.800	Lewicki	Pehl	98-318	Pepperwood_98	No Problem	THP New Con.	N/A		0	0	0	0	0	\$0	0	
Private Seasonal	51	0.000	Unk	7/1/2000		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0	
New road is 60.305145 ???																		
60.3051	1206	1.900	Pehl	Pehl	Storm Pro	Storm Proofing	Surface Drainage	Storm Proofing	N/A		0	0	0	31	0	\$5,668	978	
Upgraded	1206	3.900	ME	12/29/2001		ECP Not	Dip Rolling	Medium	-	-	0	0	28	2	0	\$6	978	
Road drainage upgrade on State 40 Loop. Outslope and dip.																		
60.3051	1316	1.970	McCanl		Storm Pro	Storm Proofing	Dip Critical	Storm Proofing	II		0	0	0	0	0	\$0	0	
Private Seasonal	1316	0.000	Unk	7/1/2000		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0	
rolling dip on class 3 OK no action																		
60.3051	52	2.400	Lewicki	Peh.	98-318	Pepperwood_98	No Problem	THP New Con	N/A		0	0	0	0	0	\$0	0	
Private Seasonal	52	0.000	Unk	7/1/2000		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0	
New road is 60.305160 ???																		
60.3051	5504	2.980	Chidlaw	Chidlaw	Maintena	Maintenance	Other	Maintenance	N/A		0	0	0	0	0	\$0	0	
Private Seasonal	5504	3.900	Unk	8/25/2009		ECP Not	Herbicides	Medium	-	-	0	0	0	0	0	\$0	0	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds	
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds	
60.3051	996	3.583	Penl	Penl	96-404	Lowery Openings	Culv.	THP Clean Up	III			0	0	0	0	\$100	0	
Private Seasonal	996	0.000	Chk	12/5/2000		ECP Not	Culv. Maintenance	THP Low	-	-	0	0	0	2	0	\$0	0	
Culvert inlet bent and damaged. Ditch which is gathering water from seep is to deep for proper drainage. Fix pipe and ditch or install new pipe with inlet set deep enough to fully drain ditch.																		
60.305115	4156	0.000	Alden	Alden	271	Pep	Pep P0530407	Surface Drainage	Storm Proofing	N/A		0	0	0	8	0	\$2,033	156
Storm Proofed	4156	0.320	R&S	4/19/2007		ECP Not	Tip and Dip	Medium	-	-	0	0	15	0	0	\$13	156	
Tip and Dip																		
60.305118	2340	0.000	Alden	Alden	271	Pep	Pep P0530407	Surface Drainage	Storm Proofing	N/A		0	0	0	11	4	\$3,203	244
Abandoned Fixed	2340	0.500	R&S	7/6/2007		ECP Not	Tip and Dip	Medium	-	-	0	0	12	14	0	\$13	244	
Tip and Dip																		
60.305118	1242	0.090	McCarl	Alden	271	Pep	Pep P0530407	Fill - Road	Storm Proofing	III		0	0	0	3	0	\$2,813	207
Abandoned Fixed	1242	0.000	R&S	7/1/2008		ECP Not	Remove Crossing	High	-	Pull	0	0	25	0	207	\$23	124	
potential road fill failure on 90% slopes failure located in small swale scarps and cracks present TREAT excavate fill and store left and right of swale , construct rolling dip at swale location																		
60.305118	1241	0.190	McCarl	Alden	271	Pep	Pep P0530407	Humboldt	Storm Proofing	III		0	0	0	3	6	\$1,285	20
Abandoned Fixed	1241	0.000	R&S	7/1/2008		ECP Not	Remove Crossing	High	-	Pull	0	0	4	0	200	\$64	20	
class 3 fill crossing with OBF failure present , spring located to right of crossing TREAT excavate crossing top to bot 1 , lay sides back 2 to 1 endhaul spoils to right																		
60.305118	1240	0.300	McCarl	Alden	271	Pep	Pep P0530407	Fill - Road	Storm Proofing	N/A		0	0	0	2	0	\$450	145
Abandoned Fixed	1240	0.000	R&S	7/1/2008		ECP Not	Excavate Soil	Medium	-	-	0	0	2	0	145	\$4	109	
potential road fill failure with spring located at cutbank TREAT excavate road fill store spoil left and right of spring construct rolling dip at spring																		
60.305118	1239	0.280	McCarl	Alden	271	Pep	Pep P0530407	Fill - Road	Storm Proofing	N/A		0	0	0	1	0	\$325	326
Abandoned Fixed	1239	0.000	R&S	6/30/2008		ECP Not	Excavate Soil	Medium	-	-	0	0	2	0	326	\$2	163	
potential road fill failure on 90% slopes 250' above class 1 stream , small crack and scarps showing fill carries thru small swale showing minor surface erosion TREAT excavate road fill leaving rolling dip at swale location, endhaul spoil to right																		
60.305118	1238	0.300	McCarl	Alden	271	Pep	Pep P0530407	Fill - Road	Storm Proofing	N/A		0	0	0	2	0	\$550	281
Abandoned Fixed	1238	0.000	R&S	6/30/2008		ECP Not	Excavate Soil	Medium	-	-	0	0	3	0	281	\$2	253	
potential road fill failure 150' above class 1 stream several small cracks and scarps showing , no present movement. Fill is well vegetated with small conifers. Spring located mid-point of site TREAT excavate fill endhaul 50% to right to spoil site																		
60.305118	1237	0.350	McCarl	Alden	271	Pep	Pep P0530407	Humboldt	Storm Proofing	III		0	0	0	3	0	\$475	95
Abandoned Fixed	1237	0.000	R&S	6/30/2008		ECP Not	Remove Crossing	High	-	Pull	0	0	2	6	563	\$9	95	
class 3 stream crossing , with no flow present time OBF of crossing having past failures TREAT excavate top to bot lay sides back 2 to 1 endhaul 275 yds. To right to spoil site																		
60.305118	1236	0.400	McCarl	Alden	271	Pep	Pep P0530407	Fill - Road	Storm Proofing	N/A		0	0	0	1	0	\$275	222
Abandoned Fixed	1236	0.000	R&S	6/30/2008		ECP Not	Excavate Soil	Medium	-	-	0	0	1	1	222	\$4	97	
potential road fill failure showing 1' to 2 vertical scarps well crossed over TREAT excavate fill store locally																		
60.305118	1235	0.470	McCarl	Alden	271	Pep	Pep P0530407	Fill - Road	Storm Proofing	Swale		0	0	0	6	0	\$1,650	556
Abandoned Fixed	1235	0.000	R&S	6/27/2008		ECP Not	Remove Crossing	High	-	Pull	0	0	6	6	556	\$7	222	
road crosses small swale , spring emerging from cutbank causing road fill failure TREAT excavate road thru swale endhauling to right to spoil site																		
60.305118	1234	0.500	McCarl	Alden	271	Pep	Pep P0530407	Humboldt	Storm Proofing	II		0	0	0	1	0	\$525	30
Abandoned Fixed	1234	0.000	R&S	6/26/2008		ECP Not	Remove Crossing	High	-	Pull	0	0	1	6	45	\$18	30	
Fill crossing on a class 3 stream with minor erosion present TREAT excavate remaining fill store locally , lay sides back 2 to 1																		

Copy

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds	
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solut ion	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	S/FSD	FSD Yds	
60.305125	2341	0.000	Alden	Alden	271	Pep	Pep P0530407	Surface Drainage	Storm Proofing	N/A	0	0	0	15	0	0	\$3,388	249
Storm Proofed	2341	0.510	R&S	4/2/2007			ECP Not	Tip and Dip	Medium	-	-	0	0	14	5	0	\$14	249
Tip and Dip																		
60.305125	1163	0.413	McCarl	Alden	271	Pep	Pep P0530407	Fill - Road	Storm Proofing	N/A	0	0	0	55	58	0	\$11,728	3,379
Private Seasonal	1163	0.000	R&S	6/15/2007			ECP Not	Excavate Soil	High	-	-	0	0	55	3	3,379	\$4	2,595
large potential road fill failure with cracks and scarps shaowing upto 14' back from OBF , failure is located in headwall swale with 2 small springs at cutbank TREAT: excavate and endhaul spoils to left to ridge , dip road at small swale																		
60.305125	1162	0.470	McCarl	Alden	271	Pep	Pep P0530407	Cur Bank Failure	Storm Proofing	N/A	0	0	0	1	0	0	\$385	0
Private Seasonal	1162	0.000	R&S	4/2/2007			ECP Not	Excavate Soil	Medium	-	-	0	0	3	0	55	\$0	0
cutbank failure blocking road which is above past landslide with spring emerging at left TREAT: excavate and endhaul to left 100'																		
60.305125	1161	0.510	McCarl	Alden	271	Pep	Pep P0530407	Fill - Landing	Storm Proofing	N/A	0	0	0	4	0	0	\$820	340
Private Seasonal	1161	0.000	R&S	4/2/2007			ECP Not	Excavate Soil	Medium	-	-	0	0	4	0	340	\$16	51
excavate fill connect with landslide to left , store spoils locally, no storage at spring location																		
60.305127	4387	0.000	Alden	Alden	271	Pep	Pep P0530407	Surface Drainage	Storm Proofing	N/A	0	0	0	10	0	0	\$2,593	171
Storm Proofed	4387	0.350	R&S	10/8/2007			SCP Not	Tip and Dip	Medium	-	-	0	0	10	7	0	\$15	171
Tip and Dip																		
60.305127	1160	0.050	McCarl	Alden	271	Pep	Pep P0530407	Fill - Road	Storm Proofing	N/A	0	0	0	14	8	0	\$3,875	889
Abandoned Fixed	1160	0.000	R&S	6/4/2007			ECP Not	Excavate Soil	High	-	-	0	0	15	5	889	\$22	175
excavate fill and push spoils to left to landing																		
60.305127	1159	0.099	McCarl	Alden	271	Pep	Pep P0530407	Fill - Landing	Storm Proofing	N/A	0	0	0	7	0	0	\$1,435	648
Abandoned Fixed	1159	0.000	R&S	10/3/2007			ECP Not	Excavate Soil	High	-	-	0	0	7	0	648	\$22	65
exc fill and store against cutbank																		
60.305127	1158	0.140	McCarl	Alden	271	Pep	Pep P0530407	Fill - Landing	Storm Proofing	N/A	0	0	0	4	1	0	\$928	296
Abandoned Fixed	1158	0.000	R&S	8/15/2008			ECP Not	Excavate Soil	Medium	-	-	0	0	5	0	296	\$31	30
exc fill and store against cutbank to right of spring																		
60.305127	1157	0.210	McCarl	Alden	271	Pep	Pep P0530407	Fill - Road	Storm Proofing	N/A	0	0	0	4	0	0	\$820	370
Abandoned Fixed	1157	0.000	R&S	10/8/2007			ECP Not	Excavate Soil	High	-	-	0	0	4	0	370	\$15	56
potential road fill failure on 90% slopes 650' to class 1 stream TREAT: exc. Fill and store against cutbank and on road																		
60.305127	1156	0.250	McCarl	Alden	271	Pep	Pep P0530407	Humboldt	Storm Proofing	III	0	0	0	0	0	0	\$0	119
Abandoned Fixed	1156	0.000	R&S	10/9/2007			ECP Not	Remove Crossing	High	-	R&Pd	0	0	0	0	296	\$0	119
class 3 fill crossing TREAT: exc. Top to bot endhaul to left to spoil site																		
60.305127	4377	0.270	Alden	Alden	Maintena	Maintenace	Maintenace	No Problem	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4377	0.000	R&S	9/24/2007			ECP Not	Rock Pit	No Action	-	-	0	0	0	0	0	\$0	0
Rock Pit																		
60.305127	1155	0.300	McCarl	Alden	271	Pep	Pep P0530407	Humboldt	Storm Proofing	III	0	0	0	8	0	0	\$1,583	124
Abandoned Fixed	1155	0.000	R&S	10/9/2007			ECP Not	Armored Ford	High	-	R&Pd	0	0	8	0	556	\$13	124
class 3 fill crossing , currently flowing, minor erosion TREAT: exc. Top to bot. Lay sides back 2 to 1 endhaul 50% of spoils to spoil site																		
60.305127	2342	0.350	Alden	Alden	271	Pep	Pep P0530407	Surface Drainage	Storm Proofing	N/A	0	0	0	11	0	0	\$3,380	171
Abandoned Fixed	2342	0.700	R&S	10.6/2007			ECP Not	Tip and Dip	Medium	-	-	0	0	24	0	0	\$20	171
Tip and Dip																		

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds	
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds	
60.305127	1154	0.453	McCarl	Alden	271	Pep	Pep P0530407	Humboldt	Storm Proofing	III	0	0	0	8	5	0	\$1,330	148
Abandoned Fixed	1154	0.000	R&S	10/7/2007		ECP Not	Remove Crossing	High	-	Pull	0	0	7	0	1,050	\$13	148	
fill crossing on a class 3 stream 30% washed out TREAT: exc. Top to bot. Lay sides back 2 to 1 endhaul to left to spoil site at ridge top																		
60.305127	1153	0.640	McCarl	Alden	271	Pep	Pep P0530407	Humboldt	Storm Proofing	III	0	0	0	2	0	0	\$410	267
Abandoned Fixed	1153	0.000	R&S	10/8/2007		ECP Not	Remove Crossing	High	-	Pull	0	0	2	0	333	\$2	267	
A class 3 fill crossing with emerging spring flow at cutbank flow as eroded thru fill at OBF TREAT: exc. And endhaul to left 2200' to ridge top																		
60.305127	1152	0.660	McCarl	Alden	271	Pep	Pep P0530407	Cut Bank Failure	Storm Proofing	N/A	0	0	0	0	0	0	\$0	0
Abandoned Fixed	1152	0.000	R&S	10/8/2007		ECP Not	Excavate Soil	Medium	-	-	0	0	0	0	370	\$0	0	
cut bank failure no future delivery TREAT: push thru to gain access to lower site, then pull side cast store against cutbank																		
60.305127	1151	0.700	McCarl	Alden	271	Pep	Pep P0530407	Fill - Landing	Storm Proofing	II	0	0	0	50	10	0	\$9,983	1,630
Abandoned Fixed	1151	0.000	R&S	10/5/2007		ECP Not	Excavate Soil	High	-	-	0	0	33	15	4,074	\$6	1,630	
landing located in class 2 stream, flow currently flowing down right side of landing following old skid. TREAT: exc. Old channel thru middle of landing, store spoil in eroded channel where currently flowing.																		
60.305139	2349	0.000	Alden	Alden	271	Pep	Pep P0530407	Surface Drainage	Storm Proofing	N/A	0	0	0	54	0	0	\$12,668	944
Deactivated	2349	1.930	R&S	8/24/2007		ECP Not	Tip and Dip	Medium	-	-	0	0	66	13	0	\$15	944	
Tip and Dip																		
60.305139	1314	0.650	McCarl	Alden	271	Pep	Pep P0530407	Cut Bank Failure	Weather Damage	N/A	0	0	0	0	0	0	\$0	0
Deactivated	1314	0.000	R&S	9/22/2007		ECP Not	Excavate Soil	Medium	-	-	0	0	0	0	210	\$0	0	
cutbank failure blocking road TREAT excavate and endhaul to left																		
60.305139	1313	0.030	McCarl	Alden	271	Pep	Pep P0530407	Slide - Deep	Weather Damage	III	0	0	0	5	0	0	\$1,103	20
Deactivated	1313	0.120	R&S	6/29/2007		ECP Not	Full Bench	High	-	-	0	0	6	1	667	\$56	20	
landslide torrenting from above taking out 300' of road continuing down slope to class 3 a class 3 has developed in slide scar TREAT full bench new road across slide install cmp at class 3 location endhaul spoil to left to dump site																		
60.305139	1312	0.280	Hagens	Alden	271	Pep	Pep P0530407	Culv.-HDP	Storm Proofing	II	0	0	0	9	0	0	\$2,385	350
Deactivated	1312	0.000	R&S	9/20/2007		ECP Not	Excavate Soil	Medium	24"	Pull	0	0	14	2	350	\$14	175	
a 24' cmp OK but has DP to right and minor outlet erosion TREAT Excavate crossing top to Bottom (base of root wad) with 4' channel bottom and 2:1 sideslopes. Spoil locally on road.																		
60.305139	1311	0.350	Hagens	Alden	271	Pep	Pep P0530407	Humboldt	Storm Proofing	II	0	0	0	60	100	0	\$20,408	890
Deactivated	1311	0.000	R&S	9/13/2007		ECP Not	Remove Crossing	High	-	Pull	0	0	41	20	888	\$46	445	
class 3 flowing across road and landing in waterbar no cmp present small head cut has developed lots of LWD at outlet, perched fill at right bank. TREAT excavate top to bot with 5' channel bottom and 2:1 sideslopes. Spoil locally.																		
60.305139	1310	0.400	Hagens	Alden	271	Pep	Pep P0530407	Culv.-HDP	Storm Proofing	II	0	0	0	47	86	0	\$15,918	1,300
Deactivated	1310	0.000	R&S	9/8/2007		ECP Not	Excavate Soil	High	24"	Pull	0	0	33	0	1,300	\$27	598	
cmp high in fill flow going subsurface 20' above inlet lots of organics in fill, logs exposed at outlet TREAT excavate crossing top to bot with 5' channel bottom. Remove all logs and capture live flow. Spoil locally.																		
60.305139	1309	0.500	McCarl	Alden	271	Pep	Pep P0530407	Fill - Road	Storm Proofing	N/A	0	0	0	2	0	0	\$505	194
Deactivated	1309	0.510	R&S	9/5/2007		ECP Not	Excavate Soil	Medium	-	-	0	0	0	0	189	\$12	44	
excavate and endhaul to left to spoil dump																		
60.305139	1308	0.520	Hagens	Alden	271	Pep	Pep P0530407	Fill - Road	Storm Proofing	N/A	0	0	0	2	12	0	\$1,380	310
Deactivated	1308	0.540	R&S	9/6/2007		ECP Not	Excavate Soil	High	-	-	0	0	3	0	300	\$25	56	
excavate and OBF for 240' and work around bigger trees. Use spoil to raise road to ourslope with 3:1 slope.																		

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
60.305139	1307	0.610	McCarl	Alden	271	Pep	P0530407	Cut Bank Failure	Storm Proofing	N/A	0	0	0	0	0	\$0	0
Deactivated	1307	0.600	R&S	9/6/2007		ECP Not	Excavate Soil	Medium	-	-	0	0	0	0	0	\$0	0
remove organics from cutbank blocking road , ramp over incorporate into road prism.																	
60.305139	1306	0.620	McCarl	Alden	271	Pep	P0530407	Fill - Road	Storm Proofing	N/A	0	0	0	2	0	\$460	175
Deactivated	1306	0.630	R&S	9/6/2007		ECP Not	Excavate Soil	Medium	-	-	0	0	2	0	170	\$21	22
excavate fill and endhaul to left to spoil dump																	
60.305139	1305	0.780	Hagans	Alden	271	Pep	P0530407	Fill - Road	Storm Proofing	N/A	0	0	0	1	0	\$320	107
Deactivated	1305	0.790	R&S	9/5/2007		ECP Not	Excavate Soil	Medium	-	-	0	0	2	0	104	\$21	15
excavate OBF along 110' of road. Raise road and spoil locally with 3:1 outslope.																	
60.305139	1303	0.830	Hagans	Alden	271	Pep	P0530407	Fill - Road	Storm Proofing	N/A	0	0	0	3	0	\$890	345
Deactivated	1303	0.870	R&S	9/5/2007		ECP Not	Excavate Soil	High	-	-	0	0	4	4	325	\$5	192
Fill failures, excavate 120' or road and endhaul to left to spoil dump with 2 trucks and raise road with 3:1 outslope.																	
60.305139	1304	0.850	Hagans	Alden	271	Pep	P0530407	Cut Bank Failure	Storm Proofing	N/A	0	0	0	0	0	\$0	0
Deactivated	1304	0.600	R&S	9/5/2007		ECP Not	No Action	Low	-	-	0	0	0	0	0	\$0	0
small cutbank blocking road headwall class 3 No treatment																	
60.305139	1302	0.900	Hagans	Alden	271	Pep	P0530407	Fill - Road	Storm Proofing	N/A	0	0	0	8	3	\$1,830	632
Deactivated	1302	0.920	R&S	9/4/2007		ECP Not	Excavate Soil	High	-	-	0	0	7	4	522	\$9	155
excavate road fill for 150' with visible 2' scarps. Endhaul to left to spoil with 2 trucks while still raising road with 3:1 outslope.																	
60.305139	1301	0.950	Hagans	Alden	271	Pep	P0530407	Other	Storm Proofing	N/A	0	20	0	28	41	\$8,095	0
Deactivated	1301	0.900	R&S	8/29/2007		ECP Not	Dip Rolling	Medium	-	-	0	0	13	0	0	\$0	0
At steep tiny stream with pat debris torrent. Excavate from top to bot with 1 1/2:1 sideslopes. Armor 3' wide bottom and up 2' on both sideslopes for length fo excavation. 20 yards rock. Retrieve all new sidecast.																	
60.305139	1300	1.020	Hagans	Alden	271	Pep	P0530407	Other	Storm Proofing	N/A	0	0	0	1	0	\$250	0
Deactivated	1300	0.900	R&S	8/28/2007		ECP Not	Dip Rolling	High	-	-	0	0	1	0	0	\$0	0
swale crossing with gulling at OBF. Fill at OBF will be removed during excavation of site #1298TREAT install rocked rolling dip. Rock outlet of dip with 0.5' to 1.5' rock for 20' downslope.																	
60.305139	1299	1.030	McCarl	Alden	271	Pep	P0530407	Fill - Road	Storm Proofing	N/A	0	0	0	7	21	\$3,323	548
Deactivated	1299	1.090	R&S	8/29/2007		ECP Not	Excavate Soil	Medium	-	-	0	0	7	3	519	\$13	249
excavate fill for 420' through very steep broad swale and endhaul to left to spoil site. Have 2 trucks end hauling and also raise road with 3:1 outslope.																	
60.305139	1298	1.110	Hagans	Alden	271	Pep	P0530407	Fill - Road	Storm Proofing	N/A	0	0	0	0	0	\$0	322
Deactivated	1298	0.900	R&S	9/25/2007		ECP Not	Excavate Soil	Medium	-	-	0	0	0	0	322	\$0	161
excavate road fill for 250' through broad swale. Spoil on road by raising road with a 3:1 outslope.																	
60.305139	1297	1.180	Hagans	Alden	271	Pep	P0530407	Other	Storm Proofing	II	0	0	0	1	0	\$230	0
Deactivated	1297	0.900	R&S	8/27/2007		ECP Not	Dip Rolling	Medium	-	-	0	0	1	0	0	\$0	0
emerging flow from cutbank flowing across road TREAT install rolling dip.																	
60.305139	1296	1.210	Hagans	Alden	271	Pep	P0530407	Fill - Road	Storm Proofing	N/A	0	0	0	5	0	\$1,150	405
Deactivated	1296	1.220	R&S	9/27/2007		ECP Not	Excavate Soil	High	-	-	0	0	5	0	236	\$25	45
excavate fill for 210'. Spoil on road with outslope																	

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Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds	
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds	
60.305139	1295	1.460	Hagans	Alden	271	Pep	Pep P0530407	Humboldt	Storm Proofing	II	0	0	0	71	218	0	\$30,028	2,000
Deactivated	1295	0.000	R&S	8/20/2007			ECP Not	Remove Crossing	High	-	Pull	0	0	46	31	1,778	\$38	800
fill crossing on class 3 heavily skidded above and below TREAT excavate top to bot may need to go above top to make good transission , dig 5' wide channel bottom lay sides back 2 to 1 all through crossing. At top of flag, create an 8' vertical step in channel @ 2:1 slope and armor with 20 yards of 0.5' to 1.5' rip rap. Spoil locally.																		
60.305139	1294	1.480	McCaull	Alden	271	Pep	Pep P0530407	Fill - Road	Storm Proofing	N/A	0	0	0	5	0	0	\$925	522
Deactivated	1294	1.570	R&S	7/11/2007				Excavate Soil	High	-	-	0	0	5	0	478	\$5	201
excavate road fill store on road to outslope and rollig dip																		
60.305139	1293	1.600	Hagans	Alden	271	Pep	Pep P0530407	Humboldt	Storm Proofing	III	0	0	0	8	0	0	\$2,333	300
Deactivated	1293	0.000	R&S	8/15/2008				Remove Crossing	High	-	Pull	0	0	13	3	70	\$26	90
fill crossing on class 3 skids enter from right bank continuing down channel TREAT excavate crossing from top to bottom flags with 4' wide channel bottom and 2:1 sideslopes. Spoil locally.																		
60.305139	1292	1.670	Hagans	Alden	271	Pep	Pep P0530407	Slide - Shallow	Storm Proofing	II	0	0	0	44	157	0	\$22,343	3,000
Deactivated	1292	0.000	R&S	8/13/2007				Remove Crossing	High	-	Pull	0	0	29	43	0	\$7	5,000
left channel of site #3 hours for excavation are in that site TREAT install cmp to grade																		
60.305139	1291	1.671	Hagans	Alden	271	Pep	Pep P0530407	Slide - Shallow	Storm Proofing	II	0	0	0	220	623	0	\$93,523	10,000
Deactivated	1291	0.000	R&S	8/5/2007				Remove Crossing	High	-	Pull	0	0	164	28	12,077	\$9	10,000
landslide coming down right bank entering channel of class 3 flowing 400' to where 2 class 3 streams join lots of organics thru out spoil no cmp could be found in crossings TREAT excavate slide spoil from channel going 200' up right channel endhaul to left 1200' , excavate left channel top to bot with 6' wide channel bottom and 2:1 sideslopes.																		
60.305139	1290	1.700	Hagans	Alden	271	Pep	Pep P0530407	Humboldt	Storm Proofing	III	0	0	0	3	0	0	\$690	300
Deactivated	1290	0.000	R&S	7/25/2007				Remove Crossing	High	-	Pull	0	0	3	0	750	\$5	126
fill crossing on class 3 LWD in fill TREAT excavate crossing of all fill and spoil on both approaches with 3:1 outslope.																		
60.305139	1289	1.750	Hagans	Alden	271	Pep	Pep P0530407	Culv.-SDP	Storm Proofing	III	0	0	0	10	0	0	\$2,298	400
Deactivated	1289	0.000	R&S	7/25/2007				Remove Crossing	Medium	-	Pull	0	0	9	8	0	\$82	28
excavate top to bottom: flags of all fill in swale crossing and endhaul 1/2 to terminal landing. Spoil 1/2 on approaches.																		
60.30514	2343	0.000	Alden	Alden	271	Pep	Pep P0530407	Surface Drainage	Storm Proofing	N/A	0	0	0	26	2	0	\$6,278	318
Deactivated	2343	0.650	R&S	9/28/2007				Tip and Dip	Medium	-	-	0	0	23	16	0	\$20	318
Tip and Dip																		
60.30514	1175	0.190	McCaull	Alden	271	Pep	Pep P0530407	Cut Bank Failure	Storm Proofing	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	1175	0.000	R&S	9/25/2007				Other	Medium	-	-	0	0	0	0	0	\$0	0
small cutbank failure depositing on road , ramp over to gain access, upon exiting install x-road drain to drain road above deposit																		
60.30514	1174	0.210	McCaull	Alden	271	Pep	Pep P0530407	Humboldt	Storm Proofing	III	0	0	0	3	0	0	\$615	18
Private Seasonal	1174	0.000	R&S	9/25/2007				Armored Ford	Medium	-	RKFC	0	0	3	0	167	\$34	18
a fill crossing on a class 3 swale very little evidence of flow TREAT excavate fill store spoil left and right																		
60.30514	1173	0.280	McCaull	Alden	271	Pep	Pep P0530407	Fill - Landing	Storm Proofing	N/A	0	0	0	2	0	0	\$410	0
Private Seasonal	1173	0.000	R&S	3/18/2007				Excavate Soil	Medium	-	-	0	0	2	0	563	\$0	0
potential landingfill failure on 70% slopes no delivery from site. TREAT excavate fill store against cutbank																		
60.30514	1172	0.400	McCaull	Alden	271	Pep	Pep P0530407	Slide - Shallow	Storm Proofing	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	1172	0.000	R&S	9/28/2007				Other	Medium	-	-	0	0	0	0	0	\$0	0
shallow landslide from upslope depositing on road prizm spring flow is currently flow from slide scar TREAT ramp over deposit to gain access to site below install rolling dip to drain spring across road																		

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Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
60.30514	1171	0.450	McCarl	Alden	271	Pep	Pep P0530407	Humboldt	Storm Proofing	III	0	0	0	0	0	\$0	55
Private Seasonal	1171	0.000	R&S	9/27/2007		ECP Not	Armored Ford	High	-	Pull	0	0	0	0	556	\$0	55
fill crossing on a class 3 TREAT excavate and endhaul to right to spoil site using 2 trucks																	
60.30514	1170	0.460	McCarl	Alden	271	Pep	Pep P0530407	Fill - Road	Storm Proofing	Sp.	0	0	0	2	2	\$323	143
Private Seasonal	1170	0.000	R&S	9/27/2007		ECP Not	Dip Critical	High	-	-	0	0	0	0	145	\$2	131
swale crossing showing cracks and scarps showing at OBF , spring flow at IBR flowing left downroad 35' TREAT: excavate and endhaul road fill , construct rolling dip at spring location																	
60.30514	1169	0.500	McCarl	Alden	271	Pep	Pep P0530407	Criv.-Plug	Storm Proofing	II	0	0	0	49	43	\$11,503	222
Private Seasonal	1169	0.000	R&S	9/24/2007		ECP Not	Criv. Maintenance	High	24	Pull	0	0	33	0	1,200	\$52	222
A plugged 24" crp on a class 3 stream crossing TREAT: excavate and endhaul 50% to left and the rest to the right.																	
60.30514	1168	0.520	McCarl	Alden	271	Pep	Pep P0530407	Fill - Road	Storm Proofing	N/A	0	0	0	0	0	\$0	207
Private Seasonal	1168	0.000	R&S	9/24/2007		ECP Not	Excavate Soil	Medium	-	-	0	0	0	0	207	\$0	166
excavate and store against outbank																	
60.30514	1167	0.550	McCarl	Alden	271	Pep	Pep P0530407	Fill - Road	Storm Proofing	N/A	0	0	0	5	0	\$1,038	144
Private Seasonal	1167	0.000	R&S	9/24/2007		ECP Not	Excavate Soil	Medium	-	-	0	0	4	1	144	\$36	29
Potential road fill failure on 80% slopes 250' above class 2 TREAT: excavate and store against outbank, rip and install x-road drains on landing and road to left																	
60.30515	2344	0.000	Alden	Alden	271	Pep	Pep P0530407	Surface Drainage	Storm Proofing	N/A	0	0	0	25	0	\$5,719	215
Abandoned Fixed	2344	0.440	R&S	6/22/2007		ECP Not	Tip and Dip	Medium	-	-	0	0	25	6	0	\$27	215
Tip and Dip																	
60.30515	1264	0.040	McCarl	Alden	271	Pep	Pep P0530407	Fill - Landing	Storm Proofing	N/A	0	0	0	1	0	\$205	111
Private Seasonal	1264	0.000	R&S	6/29/2007		ECP Not	Excavate Soil	High	-	-	0	0	1	0	111	\$9	22
landing fill perched above class 3 swale TREAT excavate push spoil against outbank																	
NOTE ARCHAEOLOGICAL SITE IN AREA. NO OPERATIONS IN RECORDED SITE. REFER TO ARCHAEOLOGICAL REPORT.																	
60.30515	1263	0.030	McCarl	Alden	271	Pep	Pep P0530407	Fill - Road	Storm Proofing	N/A	0	0	0	0	0	\$0	0
Private Seasonal	1263	0.000	R&S	8/7/2008		ECP Not	Excavate Soil	Medium	-	-	0	0	0	0	0	\$0	0
remove logging slash from fill. No work done Arc site.																	
NOTE ARCHAEOLOGICAL SITE IN AREA. NO OPERATIONS IN RECORDED SITE. REFER TO ARCHAEOLOGICAL REPORT.																	
60.30515	1262	0.090	McCarl	Alden	271	Pep	Pep P0530407	Other	Storm Proofing	Swale	0	0	0	0	0	\$0	0
Private Seasonal	1262	0.000	R&S	8/7/2008		ECP Not	Dip Rolling	High	-	-	0	0	0	0	0	\$0	0
road crosses swale water placed at location TREAT remove woody debris from fill install rolling dip																	
NOTE ARCHAEOLOGICAL SITE IN AREA. NO OPERATIONS IN RECORDED SITE. REFER TO ARCHAEOLOGICAL REPORT.																	
60.30515	1261	0.100	McCarl	Alden	271	Pep	Pep P0530407	Fill - Road	Storm Proofing	N/A	0	0	0	0	0	\$0	0
Private Seasonal	1261	0.000	R&S	8/7/2008		ECP Not	Excavate Soil	Medium	-	-	0	0	0	0	0	\$0	0
lots of organics in fill TREAT remove slash from fill No work done Arc site.																	
NOTE ARCHAEOLOGICAL SITE IN AREA. NO OPERATIONS IN RECORDED SITE. REFER TO ARCHAEOLOGICAL REPORT.																	
60.30515	1260	0.220	McCarl	Alden	271	Pep	Pep P0530407	Fill - Road	Storm Proofing	N/A	0	0	0	2	0	\$450	189
Abandoned Fixed	1260	0.000	R&S	6/28/2007		ECP Not	Excavate Soil	Medium	-	-	0	0	2	0	189	\$8	57
excavate road fill store against outbank																	

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Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds	
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds	
60.30515	1259	0.230	McCarl	Alden	271	Pep	Pep P0530407	Humboldt	Storm Proofing	II	0	0	0	4	7	0	\$1,338	23
Abandoned Fixed	1259	0.000	R&S	5/28/2007		ECP Not	Remove Crossing	High	-	Pull	0	0	4	0	250	\$65	23	
road crosses headwall swale no channel visible skid road down left back TREAT excavate endhaul to right																		
50.30515	1258	0.260	McCarl	Alden	271	Pep	Pep P0530407	Cut Bank Failure	Storm Proofing	N/A	0	0	0	1	1	0	\$280	0
Abandoned Fixed	1258	0.000	R&S	6/27/2007		ECP Not	Excavate Soil	Medium	-	-	0	0	1	0	57	\$0	0	
cutbank failure blocking road excavate endhaul to right to spoil site																		
60.30515	1257	0.270	McCarl	Alden	271	Pep	Pep P0530407	Fill - Road	Storm Proofing	N/A	0	0	0	3	6	0	\$1,065	1,437
Abandoned Fixed	1257	0.000	R&S	6/27/2007		ECP Not	Excavate Soil	High	-	-	0	0	3	0	1,437	\$2	575	
endhaul to ridge top to right																		
60.30515	1256	0.300	McCarl	Alden	271	Pep	Pep P0530407	Humboldt	Storm Proofing	III	0	0	0	41	32	0	\$14,735	222
Abandoned Fixed	1256	0.000	R&S	5/25/2007		ECP Not	Remove Crossing	High	-	Pull	0	0	43	0	3,223	\$66	222	
excavate from top to bot endhaul to right to ridge 1800'																		
50.30515	1244	0.590	McCarl	Alden	271	Pep	Pep P0530407	Fill - Road	Storm Proofing	N/A	0	0	0	9	7	0	\$1,508	685
Abandoned Fixed	1244	0.000	R&S	6/22/2007		ECP Not	Excavate Soil	High	-	-	0	0	5	0	685	\$3	517	
excavate and endhaul 400 yds to right to ridge																		
60.30515	1243	0.440	McCarl	Alden	271	Pep	Pep P0530407	Humboldt	Storm Proofing	III	0	0	0	12	0	0	\$2,538	148
Abandoned Fixed	1243	0.000	R&S	6/21/2007		ECP Not	Remove Crossing	High	-	Pull	0	0	13	2	593	\$17	148	
top of 5' stump located at top flag , skid crossing 50' below access from road 100' to right local storage																		
60.30515	4311	0.440	Alden	Eagers	271	Pep	Pep P0530407	Surface Drainage	Storm Proofing	N/A	0	0	0	0	0	0	\$0	0
Abandoned Lega	4311	0.755	R&S	6/30/2007		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0	
Danny inspected this road and determined that no work was necessary																		
60.305161	4380	0.900	Alden	Alden	Maintena	Maintenance	No Problem	Storm Proofing	N/A	0	0	0	0	0	0	\$0	0	
Not Connected	4380	0.530	Unk	9/25/2007		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0	
60.30516128	4381	0.000	Alden	Alden	Maintena	Maintenance	No Problem	Storm Proofing	N/A	0	0	0	0	0	0	\$0	0	
Not Connected	4381	0.160	Unk	9/25/2007		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0	
60.30518	1209	0.900	Pehl	Pehl	Storm Pro	Storm Proofing	Surface Drainage	Storm Proofing	N/A	0	0	0	5	0	0	\$960	166	
Upgraded	1209	0.340	ME	12/29/2001		ECP Not	Dip Rolling	Medium	-	-	0	0	5	0	0	\$6	166	
Road drainage upgrade on State 40 Loop. Outslope and dip.																		
60.30518	5505	0.000	Chidlaw	Chidlaw	Maintena	Maintenance	Other	Maintenance	N/A	0	0	0	0	0	0	\$0	0	
Private Seasonal	5505	0.335	Unk	8/25/2005		ECP Not	Herbicides	Medium	-	-	0	0	0	0	0	\$0	0	
60.30518	2050	0.350	Pehl	Pehl	Maintena	Maintenance	Surface Drainage	Maintenance	N/A	0	0	0	6	10	0	\$1,880	49	
Upgraded	2050	0.450	ME	5/29/2002		ECP Not	Rock Surface	Medium	-	-	0	0	7	0	0	\$38	49	
60.3051	2672	0.000	Pehl	Pehl	03-075	Franklins Tower	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0	
Private Seasonal	2672	1.600	Unk	12/23/2005		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0	
Winter Inspection. No problems.																		
60.3061	2751	0.000	Pehl	Pehl	03-075	Franklins Tower	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0	
Private Seasonal	2751	3.900	Unk	1/12/2006		SPP	No Action	No Action	-	-	0	0	0	0	0	\$0	0	

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Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
60.3061	872	0.070	McCarl	Alden	Storm Pro	Storm Proofing	No Problem	Weather Damage	N/A		0	0	1	0	0	\$185	0
Private Perm.	872	0.000	ME	4/10/2000		ECP Not	Other	Low	15"	-	0	0	1	0	0	\$0	0
A 15" DRC draining 35' of inside ditch , no flow . Remove and install rolling dip at flagged location.																	
60.3061	873	0.100	McCarl	Alden	Storm Pro	Storm Proofing	Other	Maintenance	N/A		0	0	0	10	0	\$925	0
Private Seasonal	873	0.150	ME	4/10/2000		ECP Not	Rock Surface	Medium	-	-	0	0	5	0	0	\$0	0
250' section of road ,rutted and soft , re- rock and crown road.																	
60.3061	1214	0.300	McCarl	Alden	Storm Pro	Storm Proofing	Surface Drainage	Storm Proofing	N/A		0	0	18	24	0	\$3,773	0
Private Seasonal	1214	0.400	ME	1/19/2001		ECP Not	Rock Surface	Medium	-	-	0	0	8	0	0	\$0	0
60.3061	874	0.410	McCarl	Alden	Storm Pro	Storm Proofing	Culv.-HDP	Storm Proofing	III		0	0	2	0	0	\$1,066	20
Private Perm.	874	0.000	ME	4/5/2000		ECP Not	Culv. Replace	Medium	24"	24"	40	0	0	4	65	\$53	20
A 24" cmp on class 3 , has DP to right , channel was constructed from inlet up for 50' with 2' vertical sides , outlet is buried. Treat: replace with 24" cmp to grade , add CD , lay sides back 2 to 1 on channel above																	
60.3061	874	0.430	Haschak	Pehl	06-009	Ivy	Culv.	Maintenance	III		0	0	3	0	0	\$1,077	20
Private Perm.	2626	0.000	Urk	9/25/2007		ECP Not	Other	Medium	24"	24"	30	0	0	3	0	\$54	20
This culvert appears to be rusting but checking the record shows that it was replaced in 2000. It may be that the end was damaged during installation. Check this culvert again before closing out the plan and see what condition it is in. If necessary replace it at that time.																	
60.3061	875	0.510	McCarl	Alden	Storm Pro	Storm Proofing	Culv.-Ditch Relief	Weather Damage	N/A		0	0	0	0	0	\$0	0
Private Perm.	875	0.000	ME	4/5/2000		ECP Not	No Action	Low	18"	-	0	0	0	0	0	\$0	0
A 18" DRC no action																	
60.3061	879	1.110	McCarl	Alden	Storm Pro	Storm Proofing	Culv.-HDP	Weather Damage	II		0	0	0	1	0	\$265	0
Private Perm.	879	0.000	ME	4/5/2000		ECP Not	Dip Critical	Medium	24"	-	0	0	2	0	0	\$0	0
A 24 cmp on a class 3 , has DP to left . Treat: add CD left hinge.																	
60.3061	880	1.150	McCarl	Alden	Storm Pro	Storm Proofing	Inside ditch	Weather Damage	N/A		0	0	2	0	0	\$1,020	0
Private Perm.	880	0.000	ME	4/6/2000		ECP Not	Culv. Ditch Relief	High	-	18"	50	0	2	2	0	\$0	0
install 18" DRC 75' to left of crossing #7																	
60.3061	881	1.250	McCarl	Alden	Storm Pro	Storm Proofing	Culv.-HDP	Maintenance	N/A		0	0	1	0	0	\$190	0
Private Perm.	881	0.000	ME	4/6/2000		ECP Not	Culv. Maintenance	Medium	18"	-	0	0	1	0	0	\$0	0
A 18" DRC , treat: clean inlet and outlet , install rolling dip on lower road where flow crosses.																	
60.3061	884	2.100	McCarl	Alden	Storm Pro	Storm Proofing	Fill - Landing	Weather Damage	N/A		0	0	1	0	0	\$190	67
Private Perm.	884	0.000	ME	4/6/2000		ECP Not	Excavate Soil	Medium	-	-	0	0	1	0	67	\$3	67
past landing fill failure , treat: excavate back edge of failure approx. 67 yds. De-water slide.																	
60.3061	885	2.380	McCarl	Alden	Storm Pro	Storm Proofing	Culv.-Ditch Relief	Maintenance	N/A		0	0	1	0	0	\$115	0
Private Perm.	885	0.000	ME	4/6/2000		ECP Not	Culv. Ditch Relief	Medium	18"	-	0	0	0	0	0	\$0	0
clean inlet and outlet.																	
60.3061	886	2.500	McCarl	Alden	Storm Pro	Storm Proofing	Fill - Landing	Weather Damage	N/A		0	0	5	0	0	\$1,050	611
Private Perm.	886	0.000	ME	4/18/2000		ECP Not	Excavate Soil	High	-	-	0	0	5	4	611	\$3	367
Pot. Landing fill failure on 90% slopes , slopes are well veged , with oaks and conifers , cracks and up to 3' vertical scarps showing , lots of LWD through out fill slowing prod. Rate. Treat: excavate and store up skid to right or left.																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
60.3061	1006	3.950	Petl	Petl	03-075	Franklins Tower	Cut Bank Failure	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2752	0.000	Unk	5/15/2005		SPP	Excavate Soil	Medium	-	-	0	0	0	0	0	\$0	0
Cut Bank failure just east of culvert. Pipe okay.																	
60.3061	1009	4.200	Petl	Petl	03-075	Franklins Tower	Cut Bank Failure	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2753	0.000	Unk	6/15/2006		ECP Not	Excavate Soil	Medium	-	-	0	0	0	0	0	\$0	0
Rock dip crossing buried by cut bank/debris flow. Excavate to make passable, surface with rock.																	
60.306109	1734	0.000	Chidlaw	Chidlaw	Maintena	Maintenance	Other	Maintenance	N/A	0	0	0	0	0	0	\$59	0
Private Seasonal	1734	0.100	TE	8/10/2001		ECP Not	R/W Treatment	Medium	-	-	0	0	0	2	0	\$0	0
Sprayed Pampas Grass in ROW with Roundup and R-11(trace)																	
60.306109	1883	0.000	Craig	Craig	Maintena	Maintenance	No Problem	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Not Connected	1883	0.160	Unk	2/12/2002		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0
60.306109	1884	0.160	Haschak	Bennett	17-104	Flm	Temp. Crossing	THP App. Rd.	III	0	0	0	0	0	0	\$0	0
Private Seasonal	1884	0.000	Unk	2/12/2002		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Remove all material down to native bed at close.																	
60.306113	1885	0.000	Craig	Craig	Maintena	Maintenance	No Problem	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Not Connected	1885	0.060	Unk	2/12/2002		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Small area of standing water at end of road. No risk of failure.																	
60.306115	1886	0.000	Craig	Craig	Maintena	Maintenance	No Problem	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Not Connected	1886	0.070	Unk	2/12/2002		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0
60.306125	1732	0.000	Chidlaw	Chidlaw	Maintena	Maintenance	Other	Maintenance	N/A	0	0	0	0	0	0	\$180	0
Private Seasonal	1732	0.300	TE	8/10/2001		ECP Not	R/W Treatment	Medium	-	-	0	0	0	6	0	\$0	0
Sprayed Pampas Grass in ROW with Roundup and R-11(trace)																	
60.306125	1887	0.000	Craig	Craig	Maintena	Maintenance	No Problem	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	1887	0.470	Unk	2/12/2002		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Noticed point fracture ~3 miles out road.																	
60.306125	2345	0.000	Alden	Alden	271 Pep	Pep P0530407	Surface Drainage	Storm Proofing	N/A	0	0	0	14	0	0	\$2,273	235
Storm Proofed	2345	0.480	R&S	2/3/2007		ECP Not	Tip and Dip	Medium	-	-	0	0	8	0	0	\$10	235
Tip and Dip																	
60.306125	1248	0.200	McCarl	Alden	271 Pep	Pep P0530407	Humboldt	Storm Proofing	II	0	0	0	6	1	0	\$2,440	15
Private Perm.	1248	0.000	R&S	7/3/2008		ECP Not	Culv. Install	High	-	24"	60	0	4	3	267	\$271	0
class 3 fill crossing flow during storm events TREAT excavate endhaul spoil to left, install 24" cmp to grade.																	
60.306125	1247	0.000	McCarl	Alden	271 Pep	Pep P0530407	Fill - Road	Storm Proofing	N/A	0	0	0	4	0	0	\$900	341
Private Perm.	1247	0.000	R&S	7/2/2008		ECP Not	Excavate Soil	High	-	-	0	0	4	0	341	\$9	102
excavate endhaul to left use 2 dumps																	
60.306125	1246	0.350	McCarl	Alden	271 Pep	Pep P0530407	Fill - Road	Storm Proofing	N/A	0	0	0	4	0	0	\$738	361
Private Seasonal	1246	0.000	R&S	7/2/2008		ECP Not	Excavate Soil	Medium	-	-	0	0	3	0	361	\$5	144
excavate start to end endhaul spoil to right																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds	
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds	
60.306125	1245	0.450	McCarl	Alden	271	Pep	Pep P0530407	Humboldt	Storm Proofing	Spr.	0	0	0	2	0	0	\$500	10
Private Seasonal	1245	0.000	R&S	7/2/2008			ECP Not	Dip Rolling	Medium	-	-	0	0	3	0	20	\$50	10
							several logs placed shallow across road to drain spring seepage	TREAT remove logs install rolling dip										
60.30612521	1753	0.000	Chidlaw	Chidlaw	Maintena	Maintenance	Maintenance	Other	Maintenance	N/A	0	0	0	0	0	0	\$121	0
Private Seasonal	1753	0.200	TE	8/10/2001			ECP Not	R/W Treatment	Medium	-	-	0	0	0	4	0	\$0	0
							Sprayed Pampas Grass in ROW with Roundup and R-11(trace)											
60.30612521	2346	0.000	Alden	Alden	271	Pep	Pep P0530407	Surface Drainage	Storm Proofing	N/A	0	0	0	14	0	0	\$3,450	147
Storm Proofed	2346	0.300	R&S	2/1/2007			ECP Not	Tip and Dip	Medium	-	-	0	0	10	0	0	\$17	147
							Tip and Dip											
60.30612521	1249	0.100	McCarl	PeHl	271	Pep	Pep P0530407	Surface Drainage	Storm Proofing	N/A	0	0	0	0	2	0	\$330	0
Private Perm.	1249	0.000	R&S	8/12/2007			ECP Not	Dip Rolling	Medium	-	-	0	0	2	0	0	\$0	0
							install rocked rolling dip top of thru cut , install rolling dip 75' above spur road											
60.306128	1891	0.000	Craig	Craig	Maintena	Maintenance	Maintenance	Surface Drainage	Assessment	N/A	0	0	0	0	0	0	\$0	0
Not Connected	1891	0.200	Unk	2/13/2002			ECP Not	Waterbar	Medium	-	-	0	0	0	0	0	\$0	0
							Landing needs a water bar.											
60.30613	1892	0.000	Craig	Craig	Maintena	Maintenance	Maintenance	No Problem	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Not Connected	1892	1.300	Unk	2/13/2002			ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0
60.306133	1730	0.000	Chidlaw	Chidlaw	Maintena	Maintenance	Maintenance	Other	Maintenance	N/A	0	0	0	0	0	0	\$31	0
Private Seasonal	1730	0.070	TE	8/10/2001			ECP Not	R/W Treatment	Medium	-	-	0	0	0	0	0	\$0	0
							Sprayed Pampas Grass in ROW with Roundup and R-11(trace)											
60.306133	1893	0.000	Craig	Craig	Maintena	Maintenance	Maintenance	No Problem	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Not Connected	1893	0.070	Unk	2/13/2002			ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0
60.306133	3138	0.000	Alden	Alden	271	Pep	Pep P0530407	No Problem	Storm Proofing	N/A	0	0	0	0	0	0	\$0	0
Not Connected	3138	0.072	R&S	2/6/2007			ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0
							Ridge top road no chance of delivery											
60.306135	1729	0.000	Chidlaw	Chidlaw	Maintena	Maintenance	Maintenance	Other	Maintenance	N/A	0	0	0	0	0	0	\$121	0
Private Seasonal	1729	0.200	TE	8/10/2001			ECP Not	R/W Treatment	Medium	-	-	0	0	0	4	0	\$0	0
							Sprayed Pampas Grass in ROW with Roundup and R-11(trace)											
60.306135	1894	0.000	Craig	Craig	Maintena	Maintenance	Maintenance	No Problem	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Not Connected	1894	0.200	Unk	2/13/2002			ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0
60.306135	3137	0.000	Alden	Alden	271	Pep	Pep P0530407	No Problem	Storm Proofing	N/A	0	0	0	0	0	0	\$0	0
Not Connected	3137	0.210	R&S	2/6/2007			ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0
							Ridge top road no chance of delivery											
60.306145	2347	0.000	Alden	Alden	271	Pep	Pep P0530407	Surface Drainage	Storm Proofing	N/A	0	0	0	4	0	0	\$820	49
Storm Proofed	2347	0.100	R&S	2/1/2007			ECP Not	Tip and Dip	Medium	-	-	0	0	4	0	0	\$17	49
							Tip and Dip. The pit failed making it unsafe to finish the road work.											
60.306145	1164	0.070	McCarl	Alden	271	Pep	Pep P0530407	Fill - Road	Storm Proofing	N/A	0	0	0	2	2	0	\$610	178
Private Seasonal	1164	0.000	R&S	9/9/2007			ECP Not	Excavate Soil	High	-	-	0	0	2	0	178	\$0	\$,900
							Potential road fill failure scarp and cracks showing 5' back from OBF, 90% slopes below ,dist. To stream approx. 200'	TREAT : excavate and endhaul to left to landing 200'										

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Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds	
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds	
60.306145	3131	0.100	Alden	Alden	271	Pep	Pep P0530407	No Problem	Maintenance	N/A	0	0	0	25	9	0	\$4,985	0
Storm Proofed	3131	0.000	R&S	2/6/2007			HCP Not	Rock Pit	Medium	-	-	0	0	17	0	0	\$0	0
Rock Pit																		
The pit failed making it unsafe to finish the road work.																		
60.306169	4370	0.000	Alden	Alden	271	Pep	Pep P0530407	Surface Drainage	Storm Proofing	N/A	0	0	0	4	0	0	\$820	73
Storm Proofed	4370	0.150	R&S	4/23/2007			ECP Not	Tip and Dip	Medium	-	-	0	0	4	0	0	\$11	73
Tip and Dip																		
60.306169	1252	0.010	McCarl	Alden	271	Pep	Pep P0530407	Culv - Plug	Storm Proofing	III	0	0	0	11	5	0	\$3,809	65
Private Perm.	1252	0.000	R&S	7/22/2008			ECP Not	Culv. Replace	Medium	18"	24"	40	0	11	4	210	\$59	65
remove cmp, excavate thru skid crossing below road, construct channel, install 24" cmp to grade, inslope road approaches to inlet of cmp																		
60.306169	1005	0.020	McCarl	Alden	271	Pep	Pep P0530407	Humboldt	Storm Proofing	III	0	0	0	5	0	0	\$2,610	60
Private Perm.	1253	0.000	R&S	7/24/2008			ECP Not	Culv. Install	High	-	24"	50	0	6	7	200	\$45	60
logs exposed 25' below road flow emerging. Excavate top to bot install 24" cmp to grade armour fillslope, remove stored spoil both sides of OBR																		
60.306169	1005	0.050	Pehl	Pehl	Maintena	Maintenance	Maintenance	Surface Drainage	THP... Not	III	0	0	0	0	0	0	\$0	0
Private Seasonal	1005	0.000	RB	10/6/2000			ECP Not	Dip Critical	High	-	-	0	0	0	0	0	\$0	0
Dip out class III crossing and surface with rock. Not specified in THP.																		
60.306169	1254	0.100	McCarl	Alden	271	Pep	Pep P0530407	Culv.	Storm Proofing	III	0	0	0	5	0	0	\$2,469	10
Private Perm	1254	0.000	R&S	7/25/2008			ECP Not	Culv. Replace	High	30"	30"	40	0	6	6	75	\$247	10
replace cmp to grade clear channel above and below																		
60.306169	1824	0.120	Alden	Alden	Maintena	Maintenance	Maintenance	No Problem	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	1824	0.000	Unk	10/15/2001			ECP Not	Rock Pit	Low	-	-	0	0	0	0	0	\$0	0
Good Pit																		
60.306169	1255	0.120	McCarl	Alden	271	Pep	Pep P0530407	Fill - Road	Storm Proofing	N/A	0	0	0	3	0	0	\$675	111
Private Perm.	1255	0.000	R&S	7/23/2008			ECP Not	Excavate Soil	High	-	-	0	0	3	0	251	\$8	83
excavate store locally																		
60.306169	1251	0.200	McCarl	Alden	271	Pep	Pep P0530407	Fill - Road	Storm Proofing	N/A	0	0	0	2	0	0	\$450	208
Abandoned Fixed	1251	0.000	R&S	8/1/2008			ECP Not	Excavate Soil	High	-	-	0	0	2	0	208	\$14	31
excavate store locally																		
60.306171	1210	0.000	Pehl	Pehl	Storm Pro	Storm Proofing	Storm Proofing	Surface Drainage	Storm Proofing	N/A	0	0	0	15	0	0	\$2,775	474
Upgraded	1210	0.970	ME	12/29/2001			ECP Not	Dip Rolling	Medium	-	-	0	0	14	0	0	\$6	474
Road drainage upgrade on State 40 Loop. Outslope and dip.																		
60.306171	3130	0.000	Alden	Alden	271	Pep	Pep P0530407	Surface Drainage	Storm Proofing	N/A	0	0	0	8	8	0	\$2,555	147
Storm Proofed	3130	0.300	R&S	7/29/2008			ECP Not	Tip and Dip	Medium	-	-	0	0	10	3	0	\$17	147
Tip and Dip																		
60.306171	5506	0.000	Chiclaw	Chiclaw	Maintena	Maintenance	Maintenance	Other	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5506	0.380	Unk	8/25/2009			ECP Not	Herbicides	Medium	-	-	0	0	0	0	0	\$0	0
60.306171	1004	0.180	Pehl	Pehl	Maintena	Maintenance	Maintenance	Culv.	THP... Not	II	0	0	0	0	0	0	\$736	3
Private Seasonal	1004	0.000	Unk	10/6/2003			ECP Not	Culv. Replace	Low	18"	24"	40	0	0	0	0	\$0	0
Culvert with inlet set too high, no dissipator on outlet, and middle is bent. Replace.																		

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd P1	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
60.306171	1003	0.330	Pehl	Pehl	96-238	Cox's Opening	Surface Drainage	THP Clean Up	II		0	0	0	0	0	\$240	0
Private Seasonal	1003	0.000	RB	10/6/2000		ECP Not	Dip Critical	THP Low	-	-	0	0	1	0	0	\$0	0
THP specifies that this crossing will be rocked.																	
60.306171	1002	0.400	Pehl	Pehl	96-238	Cox's Opening	Culv.	THP... Not	III		0	0	0	0	0	\$735	0
Private Seasonal	1002	0.000	Unk	10/13/2000		ECP Not	Culv. Replace	Low	18"	24"	40	0	0	0	0	\$0	0
Culvert set high in a through fill to create a seasonal pond. Replace with a pipe lower in fill to reduce blow out potential. Install so the inlet can be partially blocked if a waterhole is needed.																	
60.306171	5667	0.680	Alden	Kelly	Maintena	Maintenance	Culv.	Assessment	II		0	0	0	0	0	\$1,105	0
Storm Proofed	5667	0.000	Unk	6/1/1995		ECP Not	No Action	No Action	24"	24"	50	0	0	0	0	\$0	0
Ok 24" with 1/2 round down spout																	
60.306171	5571	0.800	Alden	Kelly	Maintena	Maintenance	Culv.	Assessment	III		0	0	0	0	0	\$1,105	0
Storm Proofed	5571	0.000	Unk	6/1/1995		ECP Not	No Action	No Action	24"	24"	60	0	0	0	0	\$0	0
Culvert is set well with down spout.																	
60.30617137	3129	0.250	Alden	Alden	271 Pep	Pep P0530437	Surface Drainage	Storm Proofing	N/A		0	0	0	13	0	\$2,800	171
Storm Proofed	3129	0.600	R&S	1/30/2007		ECP Not	Tip and Dip	Medium	-	-	0	0	14	2	0	\$16	171
Tip and Dip																	
60.306173	1136	0.000	Alden	Alden	Storm Pro	Storm Proofing	Surface Drainage	Storm Proofing	N/A		0	0	0	16	0	\$2,735	416
Storm Proofed	1136	0.850	ME	11/7/2000		ECP Not	Dip Rolling	Medium	-	-	0	0	13	0	0	\$7	416
60.306173	5700	0.000	Chidlaw	Chidlaw	Maintena	Maintenance	Other	Maintenance	N/A		0	0	0	0	0	\$463	0
Private Seasonal	5700	0.750		8/1/2011		ECP Not	Herbicides	Medium	-	-	0	0	3	13	0	\$0	0
60.306173	958	0.340	Pehl	Pehl	96-404	Lowery Openings	Surface Drainage	THP Clean Up	N/A		0	0	0	0	0	\$50	0
Private Seasonal	958	0.000	Unk	10/13/2000		ECP Not	Other	THP High	-	-	0	0	1	0	0	\$0	0
Waterbar installed in the middle of a through cut. Remove waterbar and smooth ruts.																	
60.30617353	362	0.350	Kelly	Kelly	96-434	Lowery Openings	Other	THP New Con.	N/A		0	0	0	53	18	\$6,858	0
Private Seasonal	362	0.000	RB	7/1/1999		ECP Not	Other	Medium	-	-	0	0	4	18	0	\$0	0
60.30617376	1138	0.000	Alden	Alden	Storm Pro	Storm Proofing	Surface Drainage	Storm Proofing	N/A		0	0	0	15	0	\$2,735	538
Storm Proofed	1138	1.100	ME	11/7/2000		ECP Not	Dip Rolling	Medium	-	-	0	0	13	0	0	\$5	538
60.30617376	957	0.000	Pehl	Pehl	96-404	Lowery Openings	Fill - Road	THP Clean Up	N/A		0	0	0	12	20	\$3,500	0
Private Seasonal	957	0.000	Unk	12/5/2000		ECP Not	Excavate Soil	THP High	-	-	0	0	3	0	0	\$0	0
Spur road and landing fill are failing. Excavate and end haul or reconstruct road and landing properly with proper keyway, soil moisture and compaction.																	
60.30617376	5701	0.000	Chidlaw	Chidlaw	Maintena	Maintenance	Other	Maintenance	N/A		0	0	0	0	0	\$637	0
Private Seasonal	5701	1.060		8/1/2011		ECP Not	Herbicides	Medium	-	-	0	0	0	17	0	\$0	0
60.31	25	0.000	Kelly	Kelly	Storm Pro	Storm Proofing	Fill - Road	Storm Proofing	N/A		0	0	0	0	0	\$0	0
Private Perm.	25	0.000		9/1/1998		ECP Not	Excavate Soil	High	30"	30"	0	0	0	0	0	\$0	0
60.31	2514	0.000	Alden	Alden	Storm Pro	Storm Proofing	Surface Drainage	Storm Proofing	N/A		0	0	0	59	14	\$14,755	557
Upgraded	2514	1.140	Unk	12/19/2004		ECP Not	Tip and Dip	Medium	-	-	0	0	59	5	0	\$27	557
60.31	2818	0.480	Pehl	Pehl	08-086	Belladonna	Surface Drainage	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2818	0.000	PW	10/19/2012		ECP Not	Dip Rolling	THP Low	-	-	0	0	0	0	0	\$0	0
Existing ditch collects seeps above unstable area. Cross drain ditch with a rock dip at a location away from the unstable area.																	

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Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
60.31	153	0.500	Bennett	McCarl	Maintena	Maintenance	Cut Bank Failure	Weather Damage	N/A	0	0	0	3	5	0	\$515	3
Private Seasonal	153	0.000	RB	4/14/1995		ECP Not	Excavate Soil	High	-	-	0	0	0	0	170	\$0	0
used two trucks for three hours endhauling to old mill site																	
60.31	698	0.530	Pehl	Pehl	08-086	Belladonna	Culv.	THP App. Rd.	II	0	40	0	24	12	2	\$11,759	600
Private Seasonal	698	0.000	PW	10/19/2012		Waiver	Culv. Install	THP Low	24"	36"	50	0	20	10	500	\$20	600
Water goes subsurface approx. 50 feet upstream from pipe inlet and emerges from bottom of fill. Remove existing pipe, excavate to grade, and install a 36" pipe. Substantial excavation above inlet will be necessary to remove stored sediment.																	
60.31	2819	0.620	Pehl	Pehl	08-086	Belladonna	Culv.-Ditch Relief	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2819	0.000	PW	12/19/2012		ECP Not	Culv. Install	THP Low	18"	-	40	0	0	0	0	\$0	0
Existing cross drain with shotgunned outlet and bent inlet. Leave pipe "as is" since new installation at BRP15 will collect drainage.																	
60.31	2820	0.630	Pehl	Pehl	08-086	Belladonna	Surface Drainage	Maintenance	N/A	0	0	0	0	0	0	\$472	0
Private Seasonal	2820	0.000	PW	10/19/2012		ECP Not	Culv. Install	THP Low	-	18"	40	0	0	0	0	\$0	0
Install 18" culvert to drain seep. Direct outlet at redwood clump below.																	
60.31	2821	0.680	Pehl	Pehl	08-086	Belladonna	Surface Drainage	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2821	0.000	PW	10/19/2012		ECP Not	Culv. Install	THP Low	-	18"	0	0	0	0	0	\$0	0
Install 18" culvert to cross drain inside ditch. In the vicinity of this culvert, remove any uncompacted or settling fill material from the outside edge of the road, and properly compact.																	
60.31	2822	0.700	Pehl	Pehl	08-086	Belladonna	Surface Drainage	THP App. Rd.	N/A	0	0	0	0	0	0	\$472	0
Private Seasonal	2822	0.000	PW	10/19/2012		ECP Not	Culv. Install	THP Low	-	18"	40	0	0	0	0	\$0	0
Ditch collects bank seeps above unstable area. Replace 18" culvert that cross drains inside ditch.																	
60.31	697	0.710	Kelly	Kelly	Maintena	Maintenance	Culv.-Ditch Relief	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	697	0.000	Unk	2/15/2000		ECP Not	No Action	Medium	18"	-	0	0	0	0	0	\$0	0
60.31	2823	0.800	Pehl	Pehl	08-086	Belladonna	Surface Drainage	THP App. Rd.	N/A	0	0	0	0	0	0	\$472	0
Private Seasonal	2823	0.000	PW	10/19/2012		ECP Not	Culv. Install	THP Low	-	18"	40	0	0	0	0	\$0	0
Install 18" culvert to cross drain inside ditch.																	
60.31	2824	0.840	Pehl	Pehl	08-086	Belladonna	Culv.	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2824	0.000	PW	10/19/2012		ECP Not	No Action	THP Low	18"	-	0	0	0	0	0	\$0	0
Pipe drains towards an unstable area below road. Make sure most of drainage is captured by new installation at BRP-20 to reduce drainage towards unstable area.																	
60.31	696	0.850	Kelly	Kelly	Maintena	Maintenance	Culv.-Ditch Relief	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	696	0.000	Unk	2/15/2000		ECP Not	No Action	Medium	18"	-	0	0	0	0	0	\$0	0
60.31	2825	0.860	Pehl	Pehl	08-086	Belladonna	Surface Drainage	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2825	0.000	PW	10/19/2012		ECP Not	Culv. Install	THP Low	-	18"	0	0	0	0	0	\$0	0
Install 18" culvert to cross drain ditch and reduce flow to BRP 19.																	
60.31	694	0.940	Kelly	Kelly	Maintena	Maintenance	Cut Bank Failure	Maintenance	II	0	0	0	0	0	0	\$0	0
Private Seasonal	694	0.000	Unk	7/1/2000		ECP Not	No Action	Medium	30"	-	0	0	0	0	0	\$0	0
30" pipe removed 11/14/99. Large slide on fill slope and cut bank. Temporarily abandon until more time and money. REMAP FROM NEW PHOTOS NEXT OPPORTUNITY.																	
60.31	2826	1.100	Pehl	Pehl	Maintena	Maintenance	Surface Drainage	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2826	0.000	Unk	7/4/2006		ECP Not	Tip and Dip	THP Low	-	-	0	0	0	0	0	\$0	0
Remove outside berm and outslope road.																	

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Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds	
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds	
50.31	2827	1.120	Pehl	Pehl	08-086	Bellaadonna	Culv.	THP App. Rd.	II	0	0	0	0	0	0	\$0	0	
Private Seasonal	2827	0.000	PW	10/19/2012		ECP Not	No Action	THP Low	36"	-	0	0	0	0	0	\$0	0	
Existing 36" culvert. No treatment. Leave "as is".																		
60.3907	3977	0.620	Alden	Alden	05-023	Clover	Fill - Road	THP App. Rd.	II	0	0	0	0	0	0	\$0	0	
Private Seasonal	3977	0.000	Unk	3/1/2007		1B105033MEN	No Action	No Action	-	-	0	0	0	0	0	\$0	0	
Road fill slumped, probably some delivery																		
Grand Total All Sites										787		888	0	2,573	2,346	27	\$905,503	92,008
												0	2,578	1,144	82,538		82,538	

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Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds

Road Work

- Road # – This is unique road ID number for each road segment on the property.
- Road Class – This is the type of road.
 - Upgraded – Outsloped and dipped
 - Storm proofed – Outsloped, dipped and culverts repaired.
 - Deactivation – Outsloped, dipped, culverts pulled, and the road will be reused.
 - Abandoned Fixed – Outsloped, dipped, culverts removed and the road will not be reused.
 - Abandoned Legacy – It will do more damage than good to work on the road. The road will not be reused.
- GIS# - Each existing site in the field (like a culvert) has a unique GIS number, usually the first visit ID#. It appears on the road maps. A new visit to an existing site will reference the GIS#. You can look up the history of visits to a particular site by calling up all the records with the same GIS#.
- ID# - Each "new" road site visit has a unique ID number. It is generated when the record is entered into the database.
- Mile - Each numbered road has mileage ticks from 0 to the end of the road. "Mile" is the distance out the road to the site.
- End - If the site is along a length of road, like tipping and dipping, there is a start point (Mile) and "end" mileage.
- Insp. - The name of the inspector that identified the site and made the prescription is listed here. The inspectors are trained to identify potential sediment sources and make prescriptions in accordance with the Handbook for Forest and Ranch Roads, Weaver and Hagans, 1992. Estimates of sediment production and delivery are made by the inspector.
- Crew - These are the initials of contractor that did the work.
- Planned - Date of site identification.
- Done - Date site work was completed.
- THP# - THP Number
- Rd Pt - This is the working number (THP road point) created by the inspector in the field. It is often found on field flagging.
- THP Name - The THP or program the work is associated with.
- ECP Name - The Erosion Control Plan the site is associated with.

- Problem - The type of problem.
- Solution - The type of solution.
- Repair type - Why was the work done.
- Priority - This reflects the urgency of the problem. A high priority site is one that is likely to deliver a significant amount of sediment during the next 5 year storm event. Medium and low priority sites need upgrading, but are unlikely to deliver significant amounts of sediment in the next several years. High priority sites will be scheduled for completion prior to a low or medium priority site.
- Stream Class - As per the Forest Practice Rules
- Old Dia - The diameter of the old culvert.
- New Dia Ln - The diameter and length of the new culvert if any.
- DRCs - Number of ditch relief culverts needed for the site.
- Rock - Yards of rock needed at the site - rip rap, rock surface, etc.
- Right and Left Ditch - Feet of road to the right and left of the site that is connected and needs treatment.
- Equipment Hours
 - Exca. - Excavator
 - Cat - Caterpillar tractor
 - Labor - Hard labor
 - Truck - Dump truck or water truck
 - Gra. - Grader
- Yds - This is the total yardage of soil that must be moved at the site.
- Cost - All the equipment costs, other costs and culvert costs. This does not include administration or logistic costs.
- \$/FSD - This is the total cost divided by the yards of soil prevented from delivery (FSD) to the watercourses.
- Total Yds - This is the estimate of yardage that will be mobilized in a failure if the work is not done.
 - FSD (Future Sediment Delivery) - This is the amount of soil that will be prevented from being delivered into the watercourses if the project is completed. It is the relative potential for sediment delivery (RPSD). This yardage only appears if the inspector has been trained to estimate this.

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Stream Monitoring Report

Ownerships: All
 Visit Purpose: All
 Planning Watersheds: Black Point

Station Number	Miles Up Stream	Year	Temperature		LWD Bank Full >6 In & >4 Ft or >10 CuFt		Substrate		Streambed (Thalweg)			Riparian Zone			Fish or Redds per Mile			Aquatic Macroinvertebrates				
			Seasonal Maximum	MWAT	CuFt/1000'	Pieces/1000'	>0.85 mm	D50	Slope	VI	AVD	Canopy % WLPZ	Basal Cr.	Tallest Area Tree	Coho (1+)	SH	Redds	Richness Simpson	Hilsenhoff Russian R	% Dominant Index		
470	Sal1	0.76	2000	15.3	13.5	2,048	127	9	4.7%	11	87%	89%	158	120			33	0.86	2.9	20	29	
470	Sal1	0.76	2000	13.7	13.4																	
Salal Creek				Avg	14.5	13.4	2,048	127	9	4.7%	11	87%	89%	158	120			33	0.86	2.9	20	29
472	ScH	0.27	2000			829	66	0	5.9%	54	97%	97%	466	123								
School House Creek				Avg			829	66	0	5.9%	54	97%	97%	466	123							
Hydrologic Uni Coastal Gual				Avg	14.5	13.4	1,438	97	5	5.3%	32	92%	93%	312	122			33	0.86	2.9	20	29

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Station Number	Miles Up Name Stream	Year	Temperature		LWD Bank Full >6 In & >4 Ft or >10 CuFt		Substrate		Streambed (Thalweg)			Riparian Zone			Fish or Redds per Mile			Aquatic Macroinvertebrates			
			Seasonal Maximum	MWAT	CuFt/ 1000'	Pieces/ 1000'	>0.85 mm	D50	Slope	VI	A/D	Canopy % WLPZ	Basal Cr.	Tallest Tree	Coho	SH (1+)	Redds	Richness Simpson	Hilsenhoff Russian R	% Dominant Index	
			Avg	14.5	13.4	1,438	97	5	5.3%	32	92%	93%	312	122			33	0.86	2.9	20	29
			Min	13.7	13.4	829	66	0	4.7%	11	87%	89%	158	120			33	0.86	2.9	20	29
			Max	15.3	13.5	2,048	127	9	5.9%	54	97%	97%	466	123			33	0.86	2.9	20	29
Old Growth Watersheds (HRSP)			18.5	16.6			21.6%	62									26.2	0.89			
Poor-Normal-Good										>20							26-35	.8-.89	4.6-3.1	12-17	39-15
NOWQCB Target			18.3	16.8			<14%														

<p>Temperature</p> <ul style="list-style-type: none"> Seasonal Maximum - The highest water temperature recorded during the summer. Maximum weekly average temperature (MWAT) - The highest average temperature for any seven day rolling average 	<p>Large Woody Debris (LWD)</p> <ul style="list-style-type: none"> LWD must be at least 6 inches on the small end and longer than 4 feet. Cubic Feet per 1,000 feet - The cubic volume of LWD located between the bankfull lines. Pieces per 1,000' - The number of LWD pieces per 1000' 	<p>Stream Substrate</p> <ul style="list-style-type: none"> <0.85mm - The percent fines less than 0.85 millimeters in a McNeal sample. D50- The pebble size of the median pebble of a 100 pebble sample. Three sample sizes on each reach are averaged. 	<p>Fish Surveys</p> <ul style="list-style-type: none"> Presence/absence snorkel surveys also estimate fish numbers per mile. Coho - Coho salmon any age. SH (1+) - Steelhead one year old or older. Redds - Number of salmon spawning nests found per mile during the season.
<p>Streambed (Thalweg) Survey</p> <ul style="list-style-type: none"> Slope - the slope of the channel VI - The variation index is the [(SD of residual depth/bank full depth) * 100]. This is a way of quantifying roughness and hence suitability for fish. Greater than 20 is a good indication of recovery. A/D - The change in elevation of the channel (aggradation or degradation) relative to the first year of measurement. 	<p>Riparian Condition</p> <ul style="list-style-type: none"> Canopy Cover percent as measured with a spherical densiometer. Every 200', canopy percent is measured in the center of the channel. And at bank full and 50' into the riparian zone from bankfull on both sides of the channel. Four measurements are averaged at each point. WLPZ (Watercourse and Lake Protection Zone) - The average of all the measurements taken on either side of the channel 50' into the riparian zone. Cr. - The average of all the measurements taken in the center of the channel. Riparian inventory plots were locate both sides of the channel every 200' Basal Area - Is the average basal area in square feet of all the riparian plots Tallest Tree - Is the tallest tree measured on the riparian plots. 	<p>Macroinvertebrates</p> <ul style="list-style-type: none"> Richness - Total number of Genuses represented. Simpson Diversity Index - Measures the evenness of species diversity Hilsenhoff - This is a locally modified Hilsenhoff index. It indicates levels of organic pollution Russian River Index - A localized index that combines several standard metrics Percent Dominant Taxon - This is a species distribution index 	

Completed Road Work: Black Point PWS

Hydrologic Unit All
Planning Watershed Black Point
Road # All **From Mi** All **To Mi** All
THP All **From Date** 1/1/1983 **To Date** 5/25/2023
Repair type All
Priority All
Road Class All

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
0	4315	0.000	Pehl	Pehl	05-146	Moss	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4315	0.000	Unk	12/13/2005		1B105146SON	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	2887	0.000	Pehl	Pehl	05-146	Moss	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2887	0.000	Unk	12/29/2006		1B105146SON	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems. Several trees across road limited access.																	
0	2988	0.000	Pehl	Pehl	03-020	Madrone	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2988	0.000	Unk	12/29/2006		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems. Several trees across road limited access.																	
0	2991	0.000	Pehl	Pehl	00-350	Salal	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2991	0.000	Unk	12/29/2006		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems. Several trees across road limited access.																	
0	2992	0.000	Pehl	Pehl	00-443	Shell	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2992	0.000	Unk	12/29/2006		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems. Several trees across road limited access.																	
0	4232	0.000	Pehl	Pehl	03-020	Madrone	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4232	0.000	Unk	5/31/2007		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	4234	0.000	Pehl	Pehl	05-146	Moss	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4234	0.000	Unk	5/31/2007		1B105146SON	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems. Trees cleared from roads.																	
0	4235	0.000	Pehl	Pehl	00-443	Shell	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4235	0.000	Unk	5/31/2007		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems. Trees cleared from roads.																	
0	4236	0.000	Pehl	Pehl	00-350	Salal	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4236	0.000	Unk	5/31/2007		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems. Cleared trees from roads.																	
0	2543	0.000	Haschak	Pehl	05-146	Moss	Temp. Crossing	THP Non-Road	III	0	0	0	0	0	0	\$0	0
Existing Skid	2543	0.000	AL	9/17/2007		ECP Not	Temp. Crossing	Maintenance	-	-	0	0	0	0	0	\$0	0
Temporary crossing of class III. If wet at time of operations install temporary pipe 6" by 20'. Remove pipe and dip out at close of operations.																	
0	2547	0.000	Haschak	Pehl	05-146	Moss	Temp. Crossing	Maintenance	Spr.	0	0	0	0	0	0	\$0	0
Existing Skid	2547	0.000	AL	9/17/2007		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Temporary crossing at top of class III. If wet at time of operations install temporary pipe 6" by 20'. Remove pipe and dip out at close of operations.																	

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Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
0	4416	0.000	Pehl	Pehl	03-020	Madrone	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4416	0.000	Unk	11/8/2007		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	4393	0.000	Pehl	Pehl	05-146	Moss	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4393	0.000	Unk	11/8/2007		IB105146SON	No Action	Low	-	-	0	0	0	0	0	\$0	0
Inspected Moss THP Area. No problems.																	
0	4479	0.000	Pehl	Pehl	03-020	Madrone	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4479	0.000	Unk	1/19/2008		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Appurtenant roads and watercourse crossings were covered as part of inspection of Box of Rain, Terrapin Station, and Moss THPs. No Problems.																	
0	4459	0.000	Pehl	Pehl	05-146	Moss	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4459	0.000	Unk	1/10/2008		IB105146SON	No Action	Low	-	-	0	0	0	0	0	\$0	0
Inspected Moss THP Area. No problems.																	
0	4516	0.000	Pehl	Pehl	05-146	Moss	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4516	0.000	Unk	4/22/2008		IB105146SON	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Received notice of termination letter from NCRWQCB. Project is complete.																	
0	4888	0.000	Pehl	Pehl	05-146	Moss	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4888	0.000	Unk	11/17/2008		IB105146SON	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	4899	0.000	Pehl	Pehl	03-020	Madrone	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	4899	0.000	Unk	11/17/2008		ECP Not	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No Problems.																	
0	5585	0.000	Pehl	Pehl	05-146	Moss	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	5585	0.000	Unk	1/14/2011		IB105146SON	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems with the exception of one road fill failure reported by H. Alden.																	
0	6038	0.000	Pehl	Pehl	10-007	Jasmine	No Problem	THP ECP	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6038	0.000	Unk	11/11/2013		R1-2009-0038	No Action	Medium	-	-	0	0	0	0	0	\$0	0
Inspected roads and watercourse crossings. No problems.																	
0	5397	0.000	Haschak	Pehl	10-007	Jasmine	Dip/Rolling	THP Non-Road	Swale	0	0	0	0	0	0	\$0	0
Existing Skid	5397	0.000	Unk	11/12/2014		ECP Not	Dip/Rolling	Medium	-	-	0	0	0	0	0	\$0	0
Swale on skid trail needs to be dipped out at close of operations. This looks like a class III below the road but there is no connectivity downslope but flagged as class III anyway.																	
Note- 50 feet past this point is a rare plant site that is being protected in the middle of a skid trail intersection. Since the ground in this area is gentle we are going to reconstruct the skid trails around this point but there is no 25 foot buffer flagged so construct skid trails as far from flagging as is feasible.																	
0	5372	0.000	Haschak	Pehl	10-007	Jasmine	Temp. Crossing	THP Non-Road	III	0	0	0	0	0	0	\$0	0
Existing Skid	5372	0.000	Unk	11/12/2014		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Dip out at close of operations.																	
0	5373	0.000	Haschak	Pehl	10-007	Jasmine	Temp. Crossing	THP Non-Road	II	0	0	0	0	0	0	\$0	0
Existing Skid	5373	0.000	Unk	11/12/2014		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Dip out minor class III at close of operations.																	

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Road #	GIS#	Mile Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds	
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Ycs
0	5374	0.000	Haschak Pehl	10-007	Jasmine	Temp. Crossing	THP Non-Road	III	0	0	0	0	0	0	\$0	0	
Existing Skid	5374	0.000	Unk	11/12/2014		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	\$0	0	
Dip out minor class III at close of operations.																	
0	5375	0.000	Haschak Pehl	10-007	Jasmine	Temp. Crossing	THP Non-Road	Swale	0	0	0	0	0	0	\$0	0	
Existing Skid	5375	0.000	Unk	11/12/2014		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	\$0	0	
Dip out swale at top of class III prior to close of operations.																	
0	5396	0.000	Haschak Pehl	10-007	Jasmine	Other	THP Non-Road	III	0	0	0	0	0	0	\$0	0	
Existing Skid	5396	0.000	Unk	11/12/2014		ECP Not	Other	Medium	-	-	0	0	0	0	\$0	0	
An existing necessary skid trail falls within the EEZ of a minor class III for a short distance. Seed and mulch at close of operations to standards of item 18.																	
0	6108	0.000	Pehl	Pehl	10-007	Jasmine	No Problem	THP ECP	N/A	0	0	0	0	0	\$0	0	
Private Seasonal	6108	0.000	Unk	11/12/2014		R1-2009-0038	No Action	Medium	-	-	0	0	0	0	\$0	0	
Inspect THP Area. Logging is finished for the year. Erosion control has been completed.																	
0	5368	0.000	Haschak Pehl	10-007	Jasmine	Temp. Crossing	THP Non-Road	III	0	0	0	0	0	0	\$0	0	
Existing Skid	5368	0.000	Unk	11/13/2014		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	\$0	0	
Not used.																	
minor class III skid crossing. Dip out at close of operations.																	
0	5365	0.000	Haschak Pehl	10-007	Jasmine	Temp. Crossing	THP Non-Road	III	0	0	0	0	0	0	\$0	0	
Existing Skid	5365	0.000	Unk	11/13/2014		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	\$0	0	
Temporary skid trail crossing on minor class III. Install temporary drain pipe large enough to handle flow if wet at time of operations. Dip out at close of operations. Note - There is another watercourse just to the east of this point by about 50 feet. Although it is not technically a class III because it is not transporting sediment at this point and the connective channel could not be found if during operations there is any flow or eroded soil is observed than it should be treated just like point #349.																	
0	6111	0.000	Pehl	Pehl	10-007	Jasmine	No Problem	THP ECP	N/A	0	0	0	0	0	\$0	0	
Private Seasonal	6111	0.000	Unk	12/18/2014		R1-2009-0038	No Action	Medium	-	-	0	0	0	0	\$0	0	
Ground is very wet, water everywhere. No problems. Re-inspect in January.																	
0	6118	0.000	Pehl	Pehl	10-007	Jasmine	No Problem	THP ECP	N/A	0	0	0	0	0	\$0	0	
Private Seasonal	6118	0.000	Unk	12/1/2015		R1-2009-0038	No Action	Medium	-	-	0	0	0	0	\$0	0	
Inspected roads and watercourse crossings. No problems.																	
0	6384	0.000	Alden	Alden	10-007	Jasmine	No Problem	THP ECP	N/A	0	0	0	0	0	\$0	0	
Private Seasonal	6384	0.000	Unk	9/21/2015		R1-2009-0038	No Action	Medium	-	-	0	0	0	0	\$0	0	
Inspected roads and watercourse crossings. Removed problem trash rack fence post from road point 955. Cleared dead brush that might have blocked culvert at road point 953.																	
0	5367	0.000	Haschak Alden	10-007	Jasmine	Temp. Crossing	THP App. Rd.	III	0	0	0	0	0	0	\$0	0	
Private Seasonal	5367	0.000	Unk	11/10/2015		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	\$0	0	
Temporary crossing on minor class III. This crossing is hard to detect but there is a class III up hill that drains to this spot and it should be directed across the road by dipping out the road slightly at this point upon close of operations. Where it goes on the downhill side of the road is not obvious but it is pretty much straight across the road.																	
0	5813	0.000	Haschak Benzet	12-087	Alder	Temp. Crossing	THP Non-Road	III	0	0	0	0	0	0	\$0	0	
Existing Skid	5813	0.000	Unk	11/14/2015		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	\$0	0	
Install 4" or larger pipe if water is present at time of operations. Dip out at close of operations																	
0	6704	0.000	Chirana	17-048	Cherry	Culv.-Ditch Relief	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0	
Private Seasonal	6704	0.000	Unk	5/11/2019		ECP Not	Culv. Replace	Medium	-	-	0	0	0	0	\$0	0	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
0	6492	0.000		Ghirann	17-049	Cherry	Other	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6711	0.000	Unk	6/11/2019		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
Fallen trees across road																	
0	6560	0.000		Ghirann	17-049	Cherry	Culv.	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6709	0.000	Unk	6/11/2019		ECP Not	Culv. Replace	Medium	-	-	0	0	0	0	0	\$0	0
0	6493	0.000		Ghirann	17-049	Cherry	Other	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6708	0.000	Unk	6/11/2019		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
0	855	0.000		Ghirann	17-049	Cherry	Culv.	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6707	0.000	Unk	6/11/2019		ECP Not	Culv. Replace	Medium	-	-	0	0	0	0	0	\$0	0
0	5814	0.000		Ghirann	17-049	Cherry	Temp. Crossing	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6710	0.000	Unk	6/11/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Pooling and ruts, ground saturated. Successfully draining.																	
0	2535	0.000		Ghirann	17-049	Cherry	Temp. Crossing	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6705	0.000	Unk	6/11/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
0	6492	0.000		Ghirann	17-049	Cherry	Other	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6706	0.000	Unk	6/11/2019		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
Wet road with 1ft ruts																	
0	1921	0.000		Ghirann	17-049	Cherry	Culv.-Ditch Relief	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6703	0.000	Unk	6/11/2019		ECP Not	Culv. Replace	Medium	-	-	0	0	0	0	0	\$0	0
0	6562	0.000		Ghirann	17-049	Cherry	Culv.-Ditch Relief	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6702	0.000	Unk	6/11/2019		ECP Not	Culv. Replace	Medium	-	-	0	0	0	0	0	\$0	0
0	6549	0.000		Ghirann	17-049	Cherry	Temp. Crossing	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6701	0.000	Unk	6/11/2019		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
0	5404	0.000		Ghirann	16-047	German South	Surface Drainage	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6792	0.000	Unk	7/26/2019		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
0	6405	0.000		Ghirann	16-047	German South	Surface Drainage	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6791	0.000	Unk	7/26/2019		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
0	6402	0.000		Ghirann	16-047	German South	Surface Drainage	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6790	0.000	Unk	7/26/2019		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
0	951	0.890		Ghirann	Maintena	Maintenance	Worn Out Culvert	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6774	0.000	Unk	6/11/2019		ECP Not	Culv. Replace	High	-	-	0	0	0	0	0	\$0	0
there is a hole in the culvert so the water is not flowing out the end of the pipe and instead emerging below pipe.																	
0	928	1.190		Ghirann	Maintena	Maintenance	Culv.	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6771	0.000	Unk	6/11/2019		ECP Not	Culv. Maintenance	Medium	-	-	0	0	0	0	0	\$0	0
outlet projected, downcutting occurring																	
1.25	2705	2.000	Pehl	Pehl	05-020	Madrone	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2705	3.300	Unk	12/28/2005		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0

Wet weather inspection. Pipes okay. Everything very wet after 5" of rain in previous 24 hours.

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
1.2502	1052	0.000	Hanson	Pehl	00-360	Salai	Gully	THP Recon.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	1052	0.100	Unk	7/5/2002		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
435' of road drains to a water bar. Gully forming inside ditch and water bar. Install at least 3 new water bars to divert flow off road.																	
1.2502	1053	0.000	Hanson	Pehl	00-360	Salai	Surface Drainage	THP Recon.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	1053	1.290	Unk	7/4/2004		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
Road drainage and drainage from landing collects to flow down road and across to skid road. Potential continuing erosion problems. Collect water from road below landing with a rolling dip to be directed across to head of Class III and not down skid road. Landing drainage will be diverted by work at road point # 101.																	
1.2502	927	0.000	Hanson	Pehl	00-360	Salai	Surface Drainage	THP Recon.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	1348	1.350	Unk	7/4/2004		ECP Not	Other	High	-	-	0	0	0	0	0	\$0	0
Same as PWA #33. Landing and skid trail combine runoff cause slope failure into Salai Creek. ID as THP Landslide feature #12. Excavate landing fill where cracks are visible and fill can continue to move. Construct 100' of inside ditch starting at landing and continue the northwest into clearcut brushy area on north side of road.																	
1.2502	1107	0.010	Alden	Alden	Maintena	Maintenance	No Problem	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	1107	0.000	Unk	12/5/2000		ECP Not	Gate	Low	-	-	0	0	0	0	0	\$0	0
1.2502	929	0.840	Taylor	Pehl	00-360	Salai	Culv.	THP Recon.	II	0	0	0	5	0	0	\$3,388	57
Private Seasonal	929	0.000	Unk	7/5/2002		ECP Not	Culv. Replace	Medium	18"	36"	50	0	5	4	0	\$51	67
Undersized culvert. Treat: Replace culvert with 36" pipe.																	
1.2502	929	0.840	Ghirann	Ghirann	Maintena	Maintenance	No Problem	Maintenance	II	0	0	0	0	0	0	\$0	0
Private Seasonal	6745	0.000	Unk	6/11/2019		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
down cutting at outlet																	
1.2502	928	1.190	Taylor	Pehl	00-360	Salai	Culv.	THP Recon.	II	0	0	0	6	0	0	\$2,471	112
Private Seasonal	928	0.000	Unk	7/5/2002		ECP Not	Culv. Replace	Medium	18"	24"	50	0	6	4	0	\$22	112
Undersized culvert. Treat: Replace with 24" culvert.																	
1.2502	927	1.320	Taylor	Pehl	00-360	Salai	Fill - Landing	THP Recon.	N/A	0	0	0	1	0	0	\$225	10
Private Seasonal	927	0.000	Unk	7/5/2002		ECP Not	Excavate Soil	Medium	-	-	0	0	1	0	103	\$450	1
Skid trails and landing drainage combine and flow down to waterbar and gully for 15' to headscarp landslide. Cracks along the left and OBF indicate future erosion and landing failure. Treat: Excavate from start to end, 37 x 5 x 15=103 yds. Stockpile spils locally.																	
1.250245	2535	0.100	Haschak	Pehl	05-146	Moss	Temp. Crossing	THP Clean Up	III	0	0	0	0	0	0	\$0	0
Private Seasonal	2535	0.100	Unk	9/17/2007		ECP Not	Remove Crossing	THP Low	-	-	0	0	0	0	0	\$0	0
Install temporary pipe 6" by 20' if wet at time of operations. Pull pipe and dip out crossing at close of operations.																	
1.250245	2522	0.650	Haschak	Pehl	05-146	Moss	Fill - Road	Maintenance	III	0	2	0	1	1	0	\$215	5
Private Seasonal	2522	0.650	Unk	10/13/2006		1B105146SON	Armored Ford	THP Low	-	-	0	0	0	0	0	\$43	5
Crossing appears to be a rocked ford or may just be a rock armored crossing. Water has started to erode outside edge by going around rock. Put more rock on the outside edge of crossing.																	
1.250245	2523	0.770	Haschak	Pehl	05-146	Moss	Surface Drainage	Maintenance	III	0	0	0	0	0	0	\$0	40
Private Seasonal	2523	0.770	Unk	10/13/2006		1B105146SON	Waterbar	First year THP Ops.	-	-	0	0	0	0	0	\$0	40
Water breaks shall be installed along the road approaches to the existing crossing at Point 4. The closest waterbreaks to the culvert shall be placed 20 to 25 feet upgrade from the crossing where outlets will not discharge onto crossing fill. The eroded fill above the culvert outlet shall be armored to stabilize any earthen material that could access the watercourse.																	
1.53	2057	0.000	Alden	Alden	00-360	Salai	Surface Drainage	THP Recon	N/A	0	0	0	10	58	0	\$5,480	0
Private Seasonal	2057	2.000	ME	8/25/2002		ECP Not	Other	Medium	-	-	0	0	10	0	0	\$0	0
Hauling riprap for various fills																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
1.63	5858	0.030	Chidlaw	Chidlaw	Maintena	Maintenance	Other	Maintenance	N/A	0	0	0	0	0	0	\$424	0
Private Seasonal	5858	1.300		8/1/2012		ECP Not	Herisicides	Medium	-	-	0	0	0	0	0	\$0	0
1.63	1109	0.010	Alden	Alden	Maintena	Maintenance	No Problem	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	1109	0.060	Unk	12/5/2000		ECP Not	Gate	Low	-	-	0	0	0	0	0	\$0	0
1.63	1110	0.000	Alden	Alden	Maintena	Maintenance	No Problem	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	1110	0.000	Unk	12/5/2000		ECP Not	Gate	Low	-	-	0	0	0	0	0	\$0	0
Second (uphill) gate on middle gate road.																	
1.63	2700	0.350	Pehl	Pehl	03-020	Macrone	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2700	1.250	Unk	12/28/2005		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Wet weather inspection. Pipes okay. Everything very wet after 5" of rain in previous 24 hours.																	
1.63	2699	0.350	Pehl	Pehl	00-360	Salal	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2699	1.250	Unk	12/28/2005		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Wet weather inspection. Pipes okay. Everything very wet after 5" of rain in previous 24 hours.																	
1.63	961	0.375	Taylor	Pehl	00-360	Salal	Culv.	THP Recon.	II	0	0	0	9	0	0	\$7,175	377
Private Seasonal	961	0.000	Unk	7/5/2002		ECP Not	Culv. Replace	High	24"	60"	70	0	9	5	0	\$19	377
Undersized culvert. Treat: Replace culvert with 60" pipe, 70' long, deeper in fill.																	
1.63	967	0.375	Taylor	Pehl	00-360	Salal	Surface Drainage	THP Recon.	N/A	0	0	0	0	0	0	\$0	684
Storm Proofed	967	1.210	Unk	8/25/2002		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	1,082
1865' of road surface drainage. Disconnecting 1865' of road with 14 rolling dips saves 267 yds. Treat: Outslope 1865' of road with no ditch. Install 14 rolling dips along segment of road. Install 2 DRC's 18' x 40' long to left of site 46 (955). Clean or cut 400' of ditch to these DRC's.																	
1.63	959	0.350	Taylor	Pehl	00-360	Salal	Culv.-Plug	THP Recon.	II	0	0	0	5	0	0	\$4,056	81
Private Seasonal	959	0.000	Unk	7/5/2002		ECP Not	Culv. Replace	Medium	24'	48"	50	0	5	4	0	\$50	81
Undersized and plugged culvert. Treat: Replace culvert with 48" pipe, 50' long.																	
1.63	957	0.560	Taylor	Pehl	00-360	Salal	Culv.	THP Recon.	III	0	0	0	5	0	0	\$2,161	29
Private Seasonal	957	0.000	Unk	7/5/2002		ECP Not	Culv. Replace	Low	18"	24'	40	0	6	4	0	\$75	29
Undersized culvert. Treat: Replace 18" culvert with 24" pipe, 40' long. Install critical dip. Excavate across skid above channel, laying slopes back 2:1, to decrease sed delivery.																	
1.63	955	0.580	Hearth	Pehl	00-360	Salal	Culv.	THP Recon.	II	0	0	0	10	0	0	\$2,450	321
Private Seasonal	955	0.000	Unk	7/5/2002		ECP Not	Culv. Maintenance	Medium	30'	-	0	0	10	4	0	\$8	321
Catchment at culvert inlet is partially filled. Clean out catchment and install trash rack above. It was decided that this culvert did not need to be replaced. It was designated for a 48" replacement culvert. See Wayne haydon's comments.																	
1.63	2531	0.600	Hascok	Pehl	05-146	Moss	Surface Drainage	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2531	0.700	AL	9/17/2007		ECP Not	Dip Rolling	THP Low	-	-	0	0	0	0	0	\$0	0
Steep segment of road below this point has some surface erosion. Enhance existing rolling dips and waterbars down to where road flattens out.																	
1.63	954	0.800	Taylor	Pehl	00-360	Salal	Fill - Road	THP Recon.	N/A	0	0	0	5	0	0	\$1,125	592
Private Seasonal	954	0.000	Unk	7/5/2002		ECP Not	Excavate Soil	Medium	-	-	0	0	5	0	592	\$6	178
Future road fill failure, along with a past failure that deliver to stream. Treat: Excavate from start to end. 213 x 3 x 25 = 592 yds. Endhaul spoils 400' to right onto landing.																	
1.63	1054	0.830	Hanson	Pehl	00-350	Salal	Culv.-Ditch Relief	THP Recon.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	1054	0.000	Unk	8/14/2004		ECP Not	Culv. Replace	Medium	-	-	0	0	0	0	0	\$0	0
Inside ditch receives water from spring and road. 8" pipe is plugged and has diverted water on failed fill slope. Removed existing pipe and install new 12" pipe that drains to the northeast onto stable slope. Install rock discipator and end of pipe.																	

PH

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yes
1.63	2530	0.830	Haschak	Pehl	05-146	Mess	Surface Drainage	Maintenance	N/A		3	0	0	0	0	\$0	0
Private Seasonal	2530	0.830	AL	9/17/2007		ECP Not	Dip Rolling	THP Low	-	-	0	0	0	0	0	\$0	0
Enhance existing rolling dip.																	
1.63	953	0.850	Taylor	Pehl	00-360	Sala	Fil - Road	THP Recon.	N/A		0	0	0	2	0	\$450	163
Private Seasonal	953	0.000	Unk	7/5/2002		ECP Not	Excavate Soil	Medium	-	-	0	0	2	0	163	\$7	65
Road fill failure along OBF to right of stream. Treat: Excavate unstable fill. 110 x 2 x 20 =163 yds. Spoil near site 43.																	
1.63	951	0.890	Taylor	Pehl	00-360	Sala	Culv	THP Recon.	II		0	0	0	18	0	\$9,811	579
Private Seasonal	951	0.000	Unk	7/5/2002		ECP Not	Culv Replace	Medium	36"	48"	100	0	18	6	0	\$17	579
Rusted 36" culvert. Treat: Replace 36" culvert with a 48" pipe, 100' long.																	
1.63	950	0.940	Taylor	Pehl	00-360	Sala	Culv.	THP Recon	I		0	0	0	9	0	\$5,163	312
Private Seasonal	950	0.000	Unk	7/5/2002		ECP Not	Culv. Replace	High	18"	36"	70	0	9	5	0	\$17	312
Undersized & crushed culvert. Treat: Replace 18" culvert with 36" pipe, 70' long.																	
1.63	948	0.950	Taylor	Pehl	00-360	Sala	Fil - Road	THP Recon.	N/A		0	0	0	2	0	\$450	277
Private Seasonal	948	0.000	Unk	7/5/2002		ECP Not	Excavate Soil	High	-	-	0	0	2	0	277	\$2	208
108' of OBF is cracked and 25' wide piece has failed, delivering 75% of sediment to stream below. Treat: Excavate 125 x 2 x 25 =277 yds. Fill can be reused.																	
1.63	966	1.210	Taylor	Pehl	00-360	Sala	Culv	THP Recon.	II		0	0	0	5	0	\$2,346	102
Private Seasonal	966	0.000	Unk	7/5/2002		ECP Not	Culv. Replace	Low	18"	24"	50	0	0	4	0	\$23	102
Undersized culvert. Treat: Replace culvert with 24" pipe, 50' long, aligned with natural channel. Install critical dip to right. Cut ditch for 50' to crossing from road to right. Install 2 cross road drains up skid road to break up flow.																	
1.63	966	1.210	Taylor	Pehl	00-360	Sala	Culv.	THP Recon.	N/A		0	0	0	0	0	\$736	102
Private Seasonal	1055	0.000	Unk	7/5/2002		ECP Not	Culv. Replace	Medium	18"	24"	40	0	0	0	0	\$0	0
Replace existing pipe. As per PWA report. Duplicate of site ID# 966																	
1.63	2533	1.300	Haschak	Pehl	05-146	Mess	Surface Drainage	Maintenance	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2533	1.530	AL	9/17/2007		ECP Not	Dip Rolling	THP Low	-	-	0	0	0	0	0	\$0	0
Grade and enhance drainage features along this segment of road.																	
1.63	963	1.450	Taylor	Pehl	00-360	Sala	Culv.	THP Recon.	II		0	0	0	5	0	\$2,430	92
Private Seasonal	963	0.000	Unk	7/5/2002		ECP Not	Culv. Replace	Low	18"	24"	60	0	5	4	47	\$26	92
Undersized culvert and failing outbank. Treat: Replace culvert with 24" pipe, 60' long. Excavate (50 x 5 x 5 =47 yds) outbank failure material on road bed. Cut ditch from spring to xing. Endhaul spoils 500' to left on wide flat spot leaving room for road drainage.																	
1.63	965	1.460	Taylor	Pehl	00-360	Sala	Fil - Road	THP Recon.	N/A		0	0	0	2	0	\$630	172
Private Seasonal	965	0.000	Unk	7/5/2002		ECP Not	Excavate Soil	Low	-	-	0	0	2	0	172	\$37	17
Road fill failure along OBF. Treat: Excavate from start to end, 62 x 3 x 25 = 172 yds. Endhaul spoils 500' to left to road/skid intersection. Spoil along side of skid, leaving a path for any surface flow to drain.																	
1.63:1	2701	0.000	Pehl	Pehl	00-360	Sala	No Problem	THP Maint Insp	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2701	0.700	Unk	12/28/2005		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Wet weather inspection. Pipes okay. Everything very wet after 5" of rain in previous 24 hours.																	
1.63:1	2702	0.000	Pehl	Pehl	00-020	Madrone	No Problem	THP Maint Insp	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2702	0.700	Unk	12/28/2005		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Wet weather inspection. Pipes okay. Everything very wet after 5" of rain in previous 24 hours.																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
1.6311	2528	0.300	Haschak Pehl	05-146	Moss		Surface Drainage	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2528	0.300	AL	10/13/2005		ECP Not	Dip Rolling	THP Low	-	-	0	0	0	0	0	\$0	0
<p>Below this point road has substantial rutting. Road is being rerouted around this point. The segment of road through the through-cut shall be mulched with tractor packed slash to minimize soil loss and tank traps shall be installed at either end of segment to dissuade trespassers. The existing alternative alignment inspected during the PHI shall be used instead of the road segment through the through-cut. The wet area on the new road segment, which is just to the southeast of the abandoned road segment, shall be treated with fabric and rocking to provide a stable running surface.</p>																	
1.6311	2529	0.450	Haschak Pehl	05-146	Moss		Surface Drainage	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2529	0.550	AL	9/17/2007		ECP Not	Dip Rolling	THP Low	-	-	0	0	0	0	0	\$0	0
<p>Segment of road above and below this point is wet. Maintain large waterbars at high EHR spacing.</p>																	
1.6311	2625	0.980	Haschak Pehl	05-146	Moss		No Problem	THP Mitigation	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2625	1.200	AL	10/13/2006		ECP Not	Other	THP Low	-	-	0	0	0	0	0	\$0	0
<p>The LTO shall not expand the width of the road beyond the minimum needed for passage. Sidecasting in this area will be kept to the minimum feasible to open the road. Special note- The RPF or RPF's designee shall monitor the site for newly established pampas grass or French broom plants. Any newly discovered pampas grass or French broom plants located in the road bed shall be removed. Manual removal via hand or with the use of hand tools is the preferred method of removal. If the manual method is not feasible, direct spot application of herbicide to pampas grass or French broom plants only is allowed.</p>																	
1.63114173	5369	0.150	Haschak Pehl	10-307	Jasmine		Temp. Crossing	THP App. Rd.	Swale	0	0	0	0	0	0	\$0	0
Private Seasonal	5369	0.030	Unk	11/13/2014		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
<p>Road crosses minor swale. Any fill shall be removed done to grade at close of operations.</p>																	
1.631152	2538	0.100	Haschak Pehl	05-146	Moss		Temp. Crossing	Maintenance	III	0	0	0	0	0	0	\$0	0
Private Seasonal	2538	0.100	AL	10/13/2006		ECP Not	Remove Crossing	THP High	-	-	0	0	0	0	0	\$0	0
<p>Dip out at close of operations. Install temporary pipe 6" by 20' if wet at time of operations.</p>																	
1.631166	2081	0.000	Haschak Pehl	05-146	Moss		Temp. Crossing	THP Clean Up	III	0	0	0	0	0	0	\$0	0
Private Seasonal	2527	0.000	AL	9/17/2007		ECP Not	Remove Crossing	THP Low	-	-	0	0	0	0	0	\$0	0
<p>Install temporary pipe 6" by 20' if wet at time of operations. Pull pipe at close of operations.</p>																	
1.631165	2081	0.000	Haschak Pehl	03-020	Madrone		Surface Drainage	THP App. Rd.	III	0	0	0	0	0	0	\$45	0
Private Seasonal	2081	0.000	HL	11/1/2003		ECP Not	Excavate Soil	THP Med	-	-	0	0	0	0	0	\$0	0
<p>class III has been diverted down road. Put it back straight across road. At close of operations mound up dirt on north side.</p>																	
1.6312	2521	0.000	Haschak Pehl	05-146	Moss		Surface Drainage	Maintenance	N/A	0	0	0	0	0	0	\$0	11
Private Seasonal	2521	0.000	AL	9/17/2007		ECP Not	Waterbar	THP High	-	-	0	0	0	0	0	\$0	0
<p>Road segment is very steep and needs to have very large waterbars. Road surface shall be seeded after operations.</p>																	
1.6312	958	0.170	Tordoff	Storm Pro	Storm Proofing		Surface Drainage	THP Not	N/A	0	0	0	0	0	0	\$200	5
Private Seasonal	958	0.240	Unk	10/13/2006		ECP Not	Other	Low	-	-	0	0	0	0	0	\$40	5
<p>Through cut road drains 280' of road from landing toward swale, road surface erosion is active. 85' of road from right drains toward site with minimal erosion. Treatment: In slope road, clean and out ditch for 225' to left of site. Install rolling dip at swale to drain ditch flow into swale.</p>																	
1.6312	2544	0.210	Haschak Pehl	05-146	Moss		Temp. Crossing	Maintenance	Swale	0	0	0	0	0	0	\$0	0
Private Seasonal	2544	0.210	AL	10/13/2006		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
<p>Dip out swale after operations.</p>																	
1.6312	2545	0.220	Haschak Pehl	05-146	Moss		Temp. Crossing	Maintenance	Swale	0	0	0	0	0	0	\$0	0
Private Seasonal	2545	0.000	AL	10/13/2005		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
<p>Dip out swale after operations.</p>																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
1.6312	956	0.250	Torcoff		Storm Pro	Storm Proofing	Fill - Road	THP... Not	II	0	0	0	5	0	0	\$1,325	62
Private Seasonal	956	0.000	Unk	9/15/2004		ECP Not	Culv. Install	Medium	-	Pat	0	0	5	4	0	\$21	62
Log filed 3' x 1' class 3 stream. Holes are forming through the woody debris 30' up channel from IBR. Stump in CLP, but CMP should outlet next to it with a 10' downspout to BOT.																	
Treatment: Install 24" CMP TOP to stump. Add 10' downspout to BOT.																	
1.6312	956	0.250	Haschak Pehl		03-020	Madrone	Fill - Road	THP App. Rd.	N/A	0	0	0	5	0	0	\$1,025	62
Private Seasonal	2078	0.000	GE	9/15/2004		ECP Not	Temp. Crossing	THP Low	-	-	0	0	5	0	0	\$0	0
Install spittler crossing and remove all material including woody debris presently there at close of operations.																	
1.6312	956	0.250	Haschak Pehl		05-146	Moss	Temp. Crossing	THP Clean Up	III	0	0	0	0	0	0	\$0	0
Private Seasonal	2520	0.250	AL	10/13/2005		ECP Not	Remove Crossing	THP High	-	-	0	0	0	0	0	\$0	0
Install spittler crossing or temporary pipe 6" by 20' if wet at time of operations. Pull all material down to grade, slope back banks, seed and mulch.																	
1.6312	952	0.290	Torcoff		Storm Pro	Storm Proofing	Temp. Crossing	THP... Not	III	0	0	0	1	1	0	\$315	19
Private Seasonal	952	0.000	Unk	9/15/2004		ECP Not	Temp. Crossing	Low	-	-	0	0	1	0	24	\$17	19
Fill crossing drains two small class 3 streams. Below OBF the flow collects into a 3'x3' notch channel. Road is wet and well vegetated with water loving plants. Treatment: Lower road through crossing 2 feet. Excavate outer portion of fill (2x4x30 = 9 yards). Fill outer portion of crossing with rip rap (~15 yards). End haul spoils to landing 250' to right.																	
1.6312	952	0.300	Haschak Pehl		03-020	Madrone	No Problem	THP App. Rd.	III	0	0	0	5	0	0	\$1,093	19
Private Seasonal	2079	0.000	GE	9/15/2004		ECP Not	Temp. Crossing	THP Low	-	-	0	0	5	0	24	\$0	0
Install Spittler crossing. At close of operations lower road through crossing 2 feet below present grade at outside edge.																	
1.6312	952	0.300	Haschak Pehl		05-146	Moss	Temp. Crossing	THP Clean Up	II	0	0	0	0	0	0	\$0	0
Private Seasonal	2519	0.300	AL	10/13/2005		ECP Not	Remove Crossing	First year THP Ops.	-	-	0	0	0	0	0	\$0	0
Install spittler crossing or temporary pipe 6" by 20' if wet at time of operations. Pull all material down to grade, slope back banks, seed and mulch.																	
1.6346	1916	0.000	Pehl	Pehl	Maintena	Maintenance	Surface Drainage	THP Clean Up	N/A	0	0	0	6	0	0	\$1,140	0
Private Seasonal	1916	0.000	ME	11/15/2001		ECP Not	Waterbar	THP Low	-	-	0	0	6	0	0	\$0	0
Del Rancho THP Clean Up - Roads app. To dropped units. THP Map points 114.1, 114.2, 114.3																	
1.6346	939	0.000	Torcoff Pehl		03-360	Salal	Surface Drainage	THP Recon	N/A	0	0	0	7	0	0	\$3,575	1,051
Storm Proofed	939	0.840	Unk	8/26/2002		ECP Not	Other	Medium	-	-	0	0	27	0	0	\$2	1,461
Road surface erosion on road 1.6346. There are long road and ditch lengths that lead to crossings and DRC's. There are portions of the road that have springs emerging and are wet. Yards that have failed = 37 + 640 (one decade of road surface erosion). Treatment: Install one 40' long DRC at ~.31 mile. Install 15 rolling dips. Out slope and remove ditch for 2880'. Install 4 cross road drains, 3 on 1.63 and one to right of site #58. In slope, clean and cut ditch for 230' to left of site #58.																	
1.6346	2698	0.000	Pehl	Pehl	03-020	Madrone	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$3	0
Private Seasonal	2698	0.800	Unk	12/28/2005		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Wet weather inspection. Pipes okay. Everything very wet after 5" of rain in previous 24 hours.																	
1.6346	2697	0.000	Pehl	Pehl	03-360	Salal	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2697	0.800	Unk	12/28/2005		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Wet weather inspection. Pipes okay. Everything very wet after 5" of rain in previous 24 hours.																	
1.6346	5859	0.000	Chidlaw	Chidlaw	Maintena	Maintenance	Other	Maintenance	N/A	0	0	0	0	0	0	\$286	0
Private Seasonal	5859	0.800		5/1/2012		ECP Not	Herbicides	Medium	-	-	0	0	0	0	0	\$0	0
1.6346	1049	0.250	Hansor	Pehl	03-360	Salal	Surface Drainage	THP Recon.	N/A	0	0	0	0	0	0	\$472	0
Private Seasonal	1049	0.000	Unk	7/2/2002		ECP Not	Culv. Install	Medium	-	18	40	0	0	0	0	\$0	0
Large gully has developed in outside fill and road edge caused by surface runoff from opening and ditch above. Install a 18" pipe with and collection basin.																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Shedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
1.6346	1050	0.290	Hanson	Pehl	00-360	Sala	Surface Drainage	THP New Con.	N/A		0	0	0	0	0	\$236	0
Private Seasonal	1050	0.000	Unk	7/5/2002		ECP Not	Curv. Ditch Relief	Medium	-	24"	40	0	0	0	0	\$0	0
Spring starts at head of Class III and is intersected by road and runs down inside ditch. A long run inside ditch has caused gullying further down the road. Install an 18" CMP as DRC and collection basin. Install second CMP (24") at turn in road. Improve inside ditch from both sides of new pipe. Install rolling dips as needed between both pipes.																	
1.6346	944	0.310	Tordoff	Pehl	00-360	Sala	Curv.-Plug	THP Recor.	II		0	0	0	1	0	\$225	15
Private Seasonal	944	0.000	Unk	7/5/2002		ECP Not	Temp. Crossing	Low	18"	-	0	0	1	0	20	\$14	16
Marshy class 2 stream trickles out through small holes near outer. Trash rack 8' from inlet with 9" of organic material backed up is working well and should be cleaned. Treatment: Replace CMP with armored fill crossing. Lower 2' at CLP, exc. Keyway, armor fill slope from keyway to OBR with .5 to 1+ rock. Rd treatment on site #56.1.																	
1.6346	2541	0.310	Haschak	Pehl	05-146	Moss	Dip Rolling	Maintenance	III		0	0	0	2	2	\$380	5
Private Seasonal	2541	0.310	R&S	9/17/2007		1B105146SON	Rock Surface	THP High	-	-	0	0	0	0	0	\$76	5
Rock existing rolling dip and rock for approximately 30 feet up road grade.																	
1.6346	2532	0.330	Haschak	Pehl	05-146	Moss	Surface Drainage	Maintenance	N/A		0	0	0	0	0	\$0	5
Private Seasonal	2532	0.330	R&S	10/13/2006		1B105146SON	Dip Rolling	THP Low	-	-	0	0	0	0	0	\$0	5
Install waterbar or rolling dip near top of rise. Water is coming off of hillside above road and eroding road surface down grade. Also enhance existing rolling dip below this point.																	
1.6346	945	0.440	Tordoff	Pehl	00-360	Sala	Fill - Road	THP Recor.	III		0	0	0	1	0	\$225	25
Private Seasonal	945	0.000	Unk	8/13/2004		ECP Not	Temp. Crossing	Medium	-	-	0	0	1	0	20	\$9	25
Small 2' x .5' stream crosses road, flows out water bar, and re-enters stream channel beyond berm. Treatment: Lower road by 2', remove berm and excavate keyway for 10'. Armor fill slope from keyway up with 0.5' to 1+ armor.																	
1.6346	946	0.650	Tordoff	Pehl	00-360	Sala	Fill - Road	THP Recor.	II		0	0	0	4	0	\$900	34
Private Seasonal	946	0.000	Unk	8/13/2004		ECP Not	Temp. Crossing	Low	-	-	0	0	4	0	20	\$26	34
Small stream with a fill crossing and gullied fill slope. BOT in small pool. 12" to 18" logs and a large stump are visible at the OBF. Treatment: Install armored fill crossing 15' wide. Lower road 2' through crossing (38 yards). Excavate outer portion of fill (33 yards). Fill outer portion of road with rip rap, built up from keyway.																	
1.6346	947	0.750	Tordoff	Pehl	00-360	Sala	Other	THP Recor.	N/A		0	0	0	1	0	\$225	2
Private Seasonal	947	0.000	Unk	8/13/2004		ECP Not	Other	Low	-	-	0	0	1	0	0	\$113	2
Spring flow enters ditch, flow 90', crosses road and gullies hillslope to headwall swale. Future erosion is gully enlargement. Treatment: Armor the fillslope at low spot on road (15' x 15'). Clean and cut ditch for 90' from spring to low spot.																	
1.6346	949	0.800	Tordoff	Pehl	00-360	Sala	Fill - Road	THP Recor.	II		0	0	0	2	2	\$630	25
Private Seasonal	949	0.000	Unk	8/13/2004		ECP Not	Temp. Crossing	Medium	-	-	0	0	2	0	64	\$25	25
Ephemeral stream crosses road fill, gullying at OBF down to BOT. Treatment: Install armored fill crossing. Lower road 2' through crossing (30x22x1 = 24 yards). Excavate outer portion of fill (4x15x18 = 40 yards). Fill outer portion of crossing with 0.5' to 1+ rip rap. (40 yards). Road treatment on site #56.1. Endhaul 250' to left to broad landing.																	
1.6369	2080	0.100	Haschak	Pehl	03-020	Madrone	No Problem	THP App. Rd.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2080	0.000	GE	9/15/2004		ECP Not	Excavate Soil	THP Low	-	-	0	0	0	0	0	\$0	0
Seasonal road xing swale. Remove any soil (down to natural grade) that ends up in this swale during operations.																	
1.6385	2704	2.700	Pehl	Pehl	03-020	Madrone	No Problem	THP Maint Insp.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2704	3.000	Unk	12/28/2005		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Wet weather inspection. Pipes okay. Everything very wet after 5' of rain in previous 24 hours.																	
1.6397	2703	0.000	Pehl	Pehl	03-020	Madrone	No Problem	THP Maint Insp.	N/A		0	0	0	0	0	\$0	0
Private Seasonal	2703	0.200	Unk	12/25/2005		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Wet weather inspection. Pipes okay. Everything very wet after 5" of rain in previous 24 hours.																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	RJ/P1	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds
1.91	943	0.090	Taylor	Pehl	00-360	Sala	Surface Drainage	THP... Not	N/A	0	0	0	0	0	0	\$1,500	895
Stream Paved	943	1.100	Unk	8/26/2002		ECP Not	Other	Medium	-	-	0	0	15	0	0	\$1	1,433
Excessive surface drainage. Treat: Outslope road where possible from 0-1.1mi. On RD 1.91. Install ~10 rolling dips from 0-1.1mi along road. Remove 170' of berm.																	
1.91	523	0.100	McCanl	Kelly	Maintena	Maintenance	Surface Drainage	Storm Proofing	N/A	0	0	0	3	0	0	\$868	0
Private Seasonal	523	0.600	ME	7/28/1999		ECP Not	Dip Rolling	Medium	-	-	0	0	5	5	0	\$0	0
1.91	523	0.100	McCanl	Alden	Maintena	Maintenance	Surface Drainage	Maintenance	N/A	0	0	0	0	0	0	\$875	244
Upgraded	991	0.600	ME	7/15/2000		ECP Not	Dip Rolling	Medium	-	-	0	0	10	5	0	\$4	244
1.91	1634	0.130	Pehl	Pehl	Maintena	Maintenance	Surface Drainage	Maintenance	N/A	0	0	0	0	0	0	\$768	401
Upgraded	1634	0.950	Su	7/11/2001		ECP Not	Dip Rolling	Medium	-	-	0	0	10	0	0	\$2	401
PG&E Repairs.																	
1.91	1111	0.200	Alden	Alden	Maintena	Maintenance	No Problem	Maintenance	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	1111	0.000	Unk	12/5/2000		ECP Not	Gate	Low	-	-	0	0	0	0	0	\$0	0
1.91	2695	0.200	Pehl	Pehl	03-020	Madrone	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2695	1.100	Unk	12/28/2005		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Wet weather inspection. Pipes okay. Everything very wet after 5" of rain in previous 24 hours.																	
1.91	2692	0.200	Pehl	Pehl	00-360	Sala	No Problem	THP Maint Insp	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	2692	1.100	Unk	12/28/2005		ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0
Wet weather inspection. Pipes okay. Everything very wet after 5" of rain in previous 24 hours.																	
1.91	5789	0.200	Pehl	Pehl	Maintena	Maintenance	Surface Drainage	Maintenance	N/A	0	0	0	5	0	0	\$1,850	0
Private Seasonal	5789	0.550	R&S	6/7/2012		ECP Not	Other	Medium	-	-	0	0	6	4	0	\$6	0
Removed windthrows and brush. Smoothed Road surface.																	
1.91	1085	0.220	Bernett	Pehl	97-375	Del Rancho	Surface Drainage	THP Mitigation	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	1085	0.000	Unk	11/14/2001		ECP Not	Waterbar	Medium	-	-	0	0	0	0	0	\$0	0
Culvert amended out of THP. Maintain drainage at this point with a waterbar or permanent dip. Keep equipment and spoils off of rare plants below road (south-southeast).																	
1.91	1085	0.220	Haschak	Pehl	16-047	German South	Surface Drainage	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6401	0.000	Unk	11/14/2001		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
Enhance existing rolling dip. All of the rolling dips to the top of the ridge could use a little touching up by dipping out the uphill side a bit but I have added a few specific road points on the ones that definitely need to be deepened. Previously installed as a part of Del Rancho plan.																	
1.91	1085	0.220	Haschak	Ghirani	16-047	German South	Surface Drainage	THP App. Rd.	N/A	0	0	0	0	0	0	\$0	0
Private Seasonal	6789	0.000	Unk	7/26/2015		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	0
no comment																	
1.91	942	0.360	Taylor	Pehl	00-360	Sala	Culv-Plug	THP Recon.	III	0	0	0	8	0	0	\$5,133	115
Private Seasonal	942	0.300	ME	7/5/2001		ECP Not	Culv. Replace	Medium	18"	36"	70	0	15	5	0	\$45	115
18" rusted culvert that is plugged at the outlet. Treat: Replace culvert with 36' at base of fill.																	
1.91	941	0.380	Taylor	Pehl	00-360	Sala	Culv-Plug	THP Recon.	III	0	0	0	5	0	0	\$4,263	29
Private Seasonal	941	0.000	Unk	7/5/2002		ECP Not	Culv. Replace	Medium	24"	36"	70	0	5	5	0	\$147	29
Plugged and rusted 24" culvert. Treat: Replace culvert with 36' pipe. Too steep for critical dip. Should clean out woody debris above inlet.																	
1.91	940	0.410	Alder	Pehl	00-360	Sala	Culv.	Maintenance	II	0	0	0	8	0	0	\$1,860	19
Private Seasonal	2088	0.000	ME	7/5/2002		ECP Not	Culv. Maintenance	High	24"	-	0	0	10	4	0	\$98	19
Water got under the culvert and is causing a failure.																	

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Ycs
1.91	940	0.410	Taylor	Pehl	00-360	Sala	Temp. Crossing	THP Recon.	III	0	0	0	8	0	0	\$2,596	19
Private Seasonal	940	0.900	ME	7/5/2002		ECP Not	Culv. Install	Medium	-	24"	40	0	10	4	0	\$137	19
Fill crossing with excessive road/ditch runoff. Treat: Install 24' culvert 40' long with no diversion potential.																	
1.91	938	1.080	Taylor	Pehl	00-360	Sala	Culv. Plug	THP... Not	II	0	0	0	11	0	0	\$5,406	308
Private Seasonal	938	0.000	Unk	7/5/2002		ECP Not	Culv. Replace	High	36"	48"	50	0	11	4	0	\$18	308
Plugged 30" cement culvert. Treat: Replace culvert with 48" pipe. Endhaul any spoils to left 250' to landing.																	
1.91	2133	1.080	Haschak	Pehl	00-020	Madrone	Surface Drainage	THP App. Rd.	II	0	0	0	4	8	0	\$880	0
Private Seasonal	2133	1.080	AL	10/15/2004		ECP Not	Other	Medium	-	-	0	0	0	0	0	\$0	0
An inside ditch drains the through cut area on the south side of the class II and drains into the head of the culvert. Rip-rap the outlet for the inside ditch to prevent further deterioration of this point.																	
1.9128	922	0.000	Tordoff	Pehl	00-360	Sala	Surface Drainage	THP... Not	N/A	0	0	0	0	0	0	\$200	220
Storm Proofed	922	0.280	Unk	7/5/2002		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$1	357
450' of road drainage leads to stream crossing #68. Surface lowering is primary past and future erosion. Outslope 450' of road, install 1 rolling dip to left near seeps. 120' of road surface drains toward site 69. Past road surface erosion of 15 yards. Future erosion ~15 yards per decade. Outslope and remove ditch for 120'.																	
1.9128	924	0.020	Tordoff	Pehl	00-360	Sala	Fill - Road	THP Recon.	III	0	0	0	5	0	0	\$3,800	45
Private Seasonal	924	0.000	Unk	8/5/2002		ECP Not	Culv. Install	Medium	-	36"	60	0	5	4	65	\$54	45
4x1 stream with a fill crossing on abandoned road. Flow currently flows to left, then gullies down fillslope to channel below. Install 36" CMP TOP to BOT.																	
1.9128	920	0.250	Tordoff	Pehl	00-360	Sala	Fill - Road	THP Recon.	III	0	0	0	5	0	0	\$4,425	44
Private Seasonal	920	0.000	Unk	7/5/2002		ECP Not	Culv. Install	Medium	-	36"	80	0	5	0	57	\$131	44
Two small streams converge 100' upslope, forming a 5'x1' stream. Crossing is 25% pulled, with a gully from TOP to BOT. Flow emerges from fill at BOT. Install 36" CMP Top to BOT.																	
1.9134	1585	0.000	Pehl	Pehl	Maintena	Maintenance	Surface Drainage	Maintenance	N/A	0	0	0	0	0	0	\$144	74
Upgraded	1585	0.152	Su	7/11/2001		ECP Not	Dip Rolling	Medium	-	-	0	0	2	0	0	\$2	74
PG&E repairs.																	
1.9134	5395	0.100	Haschak	Alden	10-007	Jasmine	Culv.	THP App. Rd.	II	0	0	0	6	0	0	\$2,385	95
Private Seasonal	5395	0.000	Unk	11/4/2015		RJ-2009-0038	Culv. Replace	Medium	18"	24"	40	0	6	0	0	\$22	95
A culvert on a minor class III near the top of a drainage is in danger of failing. Replace culvert at grade or remove and pull all material from crossing. Installing this culvert is part of the 2014 logging contract with Hiatt Logging. Hiatt was rained out before they could install the culvert. GRI still has \$9,039.12 in retention money to cover the cost of the installation.																	
1.91349212	1051	0.000	Heath	Pehl	00-360	Sala	Surface Drainage	THP Recon.	N/A	0	0	0	0	0	0	\$0	49
Storm Proofed	1051	0.100	Unk	5/13/2004		ECP Not	Dip Rolling	Medium	-	-	0	0	0	0	0	\$0	49
2 small springs in road at head of Class IIIs. Maintain dip and install rock crossings.																	
1.9137	5364	0.100	Haschak	Pehl	10-007	Jasmine	Temp. Crossing	THP App. Rd.	III	0	0	0	0	0	0	\$0	0
Private Seasonal	5364	0.000	Unk	11/12/2014		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Temporary crossing on minor class III. Install temporary drain pipe large enough to handle flow if wet at time of operations. Dip out at close of operations.																	
1.9137	5355	0.130	Haschak	Pehl	10-007	Jasmine	Temp. Crossing	THP App. Rd.	III	0	0	0	0	0	0	\$0	0
Private Seasonal	5355	0.000	Unk	11/12/2014		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Temporary crossing on minor class III. Install temporary drain pipe large enough to handle flow if wet at time of operations. Dip out at close of operations.																	
1.9137	5363	0.200	Haschak	Pehl	10-007	Jasmine	Temp. Crossing	THP App. Rd.	II	0	0	0	0	0	0	\$0	0
Private Seasonal	5363	0.000	Unk	11/12/2014		ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0
Temporary crossing on minor class III. Install temporary drain pipe large enough to handle flow if wet at time of operations. Dip out at close of operations.																	

Road #	GIS#	Mile Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds	
Road Class	ID#	End Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds	
19137	5552	0.320	Haschak Pehl	10-007	Jasmine	Temp. Crossing	THP App. Rd.	Spr	0	0	0	0	0	0	\$0	0	
Private Seasonal	5552	0.000	Unk	11/12/2014	ECP Not	Temp. Crossing	Medium	-	-	0	0	0	0	0	\$0	0	
Install 4" or larger spring drain if road is wet at time of operations. The drain pipe, if used, shall be removed and the temporary crossing shall be dipped out at the completion of operations.																	
15145	1688	0.000	Pehl	Maintena	Maintenance	Surface Drainage	Maintenance	N/A	0	0	0	0	0	0	\$125	68	
Upgraded	1688	0.139	Su	7/11/2001	ECP Not	Dip Rolling	Medium	-	-	0	0	2	0	0	\$2	68	
PG&E repairs.																	
19169	1915	0.300	Pehl	Pehl	Maintena	Maintenance	THP Clean Up	N/A	0	0	0	2	0	0	\$380	0	
Private Seasonal	1915	0.300	ME	11/15/2001	ECP Not	Waterbar	THP Low	-	-	0	0	2	0	0	\$0	0	
Del Rancho THP Clean Up - Roads app. to dropped units.																	
19169	2026	0.000	Pehl	Pehl	00-360	Sala	Other	THP App. Rd.	N/A	0	0	0	0	0	\$3,875	147	
Storm Proofed	2026	0.300	Unk	8/26/2002	ECP Not	Other	Medium	-	-	0	0	10	35	0	\$26	147	
Prep work - brushing, pipe hauling, smooth out waterbars.																	
19169	2694	0.000	Pehl	Pehl	00-360	Sala	No Problem	THP Maint Insp	N/A	0	0	0	0	0	\$0	0	
Private Seasonal	2694	1.100	Unk	12/28/2005	ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0	
Wet weather inspection. Pipes okay. Everything very wet after 5" of rain in previous 24 hours.																	
19169	2695	0.000	Pehl	Pehl	00-020	Madrone	No Problem	THP Maint Insp	N/A	0	0	0	0	0	\$0	0	
Private Seasonal	2695	1.100	Unk	12/28/2005	ECP Not	No Action	No Action	-	-	0	0	0	0	0	\$0	0	
Wet weather inspection. Pipes okay. Everything very wet after 5" of rain in previous 24 hours.																	
19169	5860	0.000	Chidlaw	Chidlaw	Maintena	Maintenance	Other	Maintenance	N/A	0	0	0	0	0	\$93	0	
Private Seasonal	5860	0.300		8/1/2012	ECP Not	Herbicides	Medium	-	-	0	0	0	0	0	\$0	0	
19169	937	0.053	Taylor	Pehl	00-360	Sala	Surface Drainage	THP... Not	N/A	0	0	0	0	0	\$300	71	
Storm Proofed	937	0.109	Unk	9/9/2004	ECP Not	Dip Rolling	Low	-	-	0	0	3	0	0	\$3	79	
297' of road surface runoff gullies to stream below. Treat: Install 1 rolling dip at gully and 1 to right above gully on road surface & 1 to left around bend.																	
40.196104	1689	0.730	Pehl	Pehl	Maintena	Maintenance	Surface Drainage	Maintenance	N/A	0	0	0	0	0	\$448	244	
Upgraded	1689	1.230	Su	7/11/2001	ECP Not	Dip Rolling	Medium	-	-	0	0	8	0	0	\$2	244	
PG&E repairs.																	
40.196161	4527	0.250	Haschak	Pehl	08-090	Saker	Culv.	THP App. Rd.	III	0	0	0	0	0	\$0	7	
Private Seasonal	4527	0.000	Unk	10/30/2010	ECP Not	Vented Ford	Medium	-	-	0	0	0	0	0	\$0	7	
Replace rusting culvert with vented ford. (? Persistently wet, soft soils)																	
40.196161	4518	0.330	Haschak	Pehl	08-090	Saker	Culv.	THP App. Rd.	I	0	0	0	0	0	\$1,650	50	
Private Seasonal	4518	0.000	Unk	10/30/2010	ECP Not	Culv. Replace	Medium	24"	36"	60	0	0	0	0	\$33	50	
Replace culvert but don't place culvert lower than existing culvert or wet area upstream will be drained.																	
Grand Total All Sites										159							
											2	0	222	75	0	\$107,508	8,605
												0	301	123	1,648		9,184

Road #	GIS#	Mile	Plan	Final	THP#	THP Name	Problem	Repair Type	Cr. Class	DRCs	Rock	Left D	Exca.	Truck	Gra.	Cost	Total Yds
Road Class	ID#	End	Crew	Done	Rd Pt	ECP Number	Solution	Priority/Schedule	Old Dia	New Dia	Ln	Right D	Cat	Labor	Yds	\$/FSD	FSD Yds

Road Work

- Road # – This is unique road ID number for each road segment on the property.
- Road Class – This is the type of road.
 - Upgraded – Outsloped and dipped
 - Storm proofed – Outsloped, dipped and culverts repaired.
 - Deactivation – Outsloped, dipped, culverts pulled, and the road will be reused.
 - Abandoned Fixed – Outsloped, dipped, culverts removed and the road will not be reused.
 - Abandoned Legacy – It will do more damage than good to work on the road. The road will not be reused.
- GIS# - Each existing site in the field (like a culvert) has a unique GIS number, usually the first visit ID#. It appears on the road maps. A new visit to an existing site will reference the GIS#. You can look up the history of visits to a particular site by calling up all the records with the same GIS#.
- ID# - Each "new" road site visit has a unique ID number. It is generated when the record is entered into the database.
- Mile – Each numbered road has mileage ticks from 0 to the end of the road. "Mile" is the distance out the road to the site.
- End – If the site is along a length of road, like tipping and dipping, there is a start point (Mile) and "end" mileage.
- Insp. – The name of the inspector that identified the site and made the prescription is listed here. The inspectors are trained to identify potential sediment sources and make prescriptions in accordance with the Handbook for Forest and Ranch Roads, Weaver and Hagans, 1992. Estimates of sediment production and delivery are made by the inspector.
- Crew – These are the initials of contractor that did the work.
- Planned – Date of site identification.
- Done – Date site work was completed.
- THP# - THP Number
- Rd Pt - This is the working number (THP road point) created by the inspector in the field. It is often found on field flagging.
- THP Name – The THP or program the work is associated with.
- ECP Name – The Erosion Control Plan the site is associated with.
- Problem – The type of problem.
- Solution – The type of solution.
- Repair type – Why was the work done.
- Priority – This reflects the urgency of the problem. A high priority site is one that is likely to deliver a significant amount of sediment during the next 5 year storm event. Medium and low priority sites need upgrading, but are unlikely to deliver significant amounts of sediment in the next several years. High priority sites will be scheduled for completion prior to a low or medium priority site.
- Stream Class – As per the Forest Practice Rules
- Old Dia – The diameter of the old culvert.
- New Dia Ln – The diameter and length of the new culvert if any.
- DRCs – Number of ditch relief culverts needed for the site.
- Rock – Yards of rock needed at the site – rip rap, rock surface, etc.
- Right and Left Ditch – Feet of road to the right and left of the site that is connected and needs treatment.
- Equipment Hours
 - Exca. – Excavator
 - Cat – Caterpillar tractor
 - Labor – Hand labor
 - Truck – Dump truck or water truck
 - Gra. – Grader
- Yds - This is the total yardage of soil that must be moved at the site.
- Cost – All the equipment costs, other costs and culvert costs. This does not include administration or logistic costs.
- \$/FSD – This is the total cost divided by the yards of soil prevented from delivery (FSD) to the watercourses.
- Total Yds – This is the estimate of yardage that will be mobilized in a failure if the work is not done.
 - FSD (Picture Sediment Delivery) – This is the amount of soil that will be prevented from being delivered into the watercourses if the project is completed. It is the relative potential for sediment delivery (RPSD). This yardage only appears if the inspector has been trained to estimate this.











Steam Donkey THP
Northern Spotted Owl Survey
Information and Maps

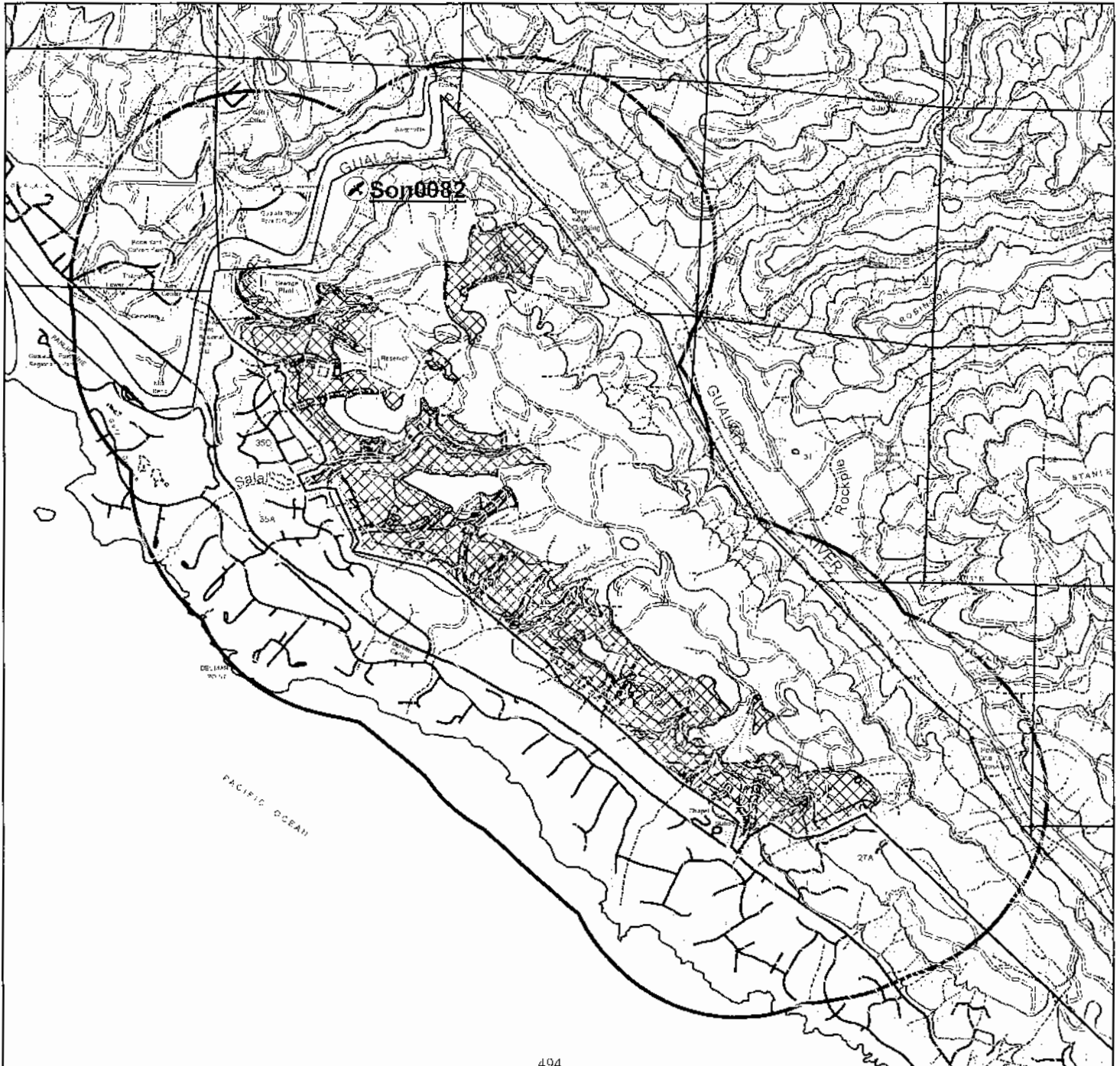
STEAM DONKEY THP NSO WITHIN 0.7 MILES

JULY 14, 2023



1:37,975

Legend					
	NSO Activity Center	Road Class		Paved Public	
	0.7 Mile Buffer		Paved Private		Unpaved Public
	Steam Donkey THP Boundary		Private Permanent		Private Seasonal
	Watercourses				
	Property Boundary				



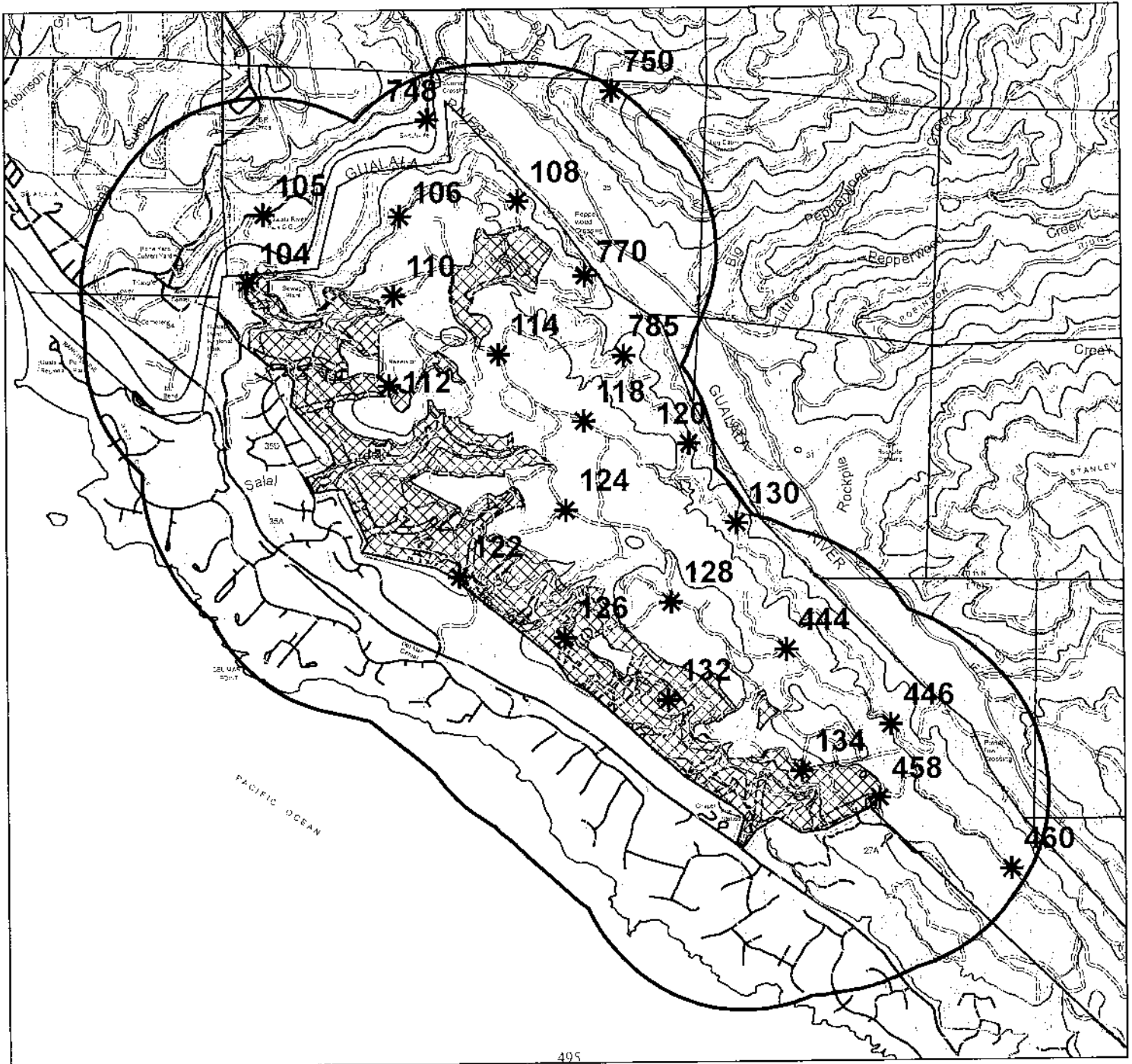
STEAM DONKEY THP NSO SURVEY STATIONS

July 14, 2023



1:38,189

Legend	
* NSO Survey Stations	Transportation
□ 0.7 Mile Buffer	Road Class
— coast arc	— Paved Public
▨ Steam Donkey THP Boundary	— Paved Private
□ Property Boundary	— Unpaved Public
	— Private Permanent
	----- Private Seasonal



STEAM DONKEY THP PRE HARVEST NSO HABITAT WITHIN 0.7 MILES

JULY 14, 2023



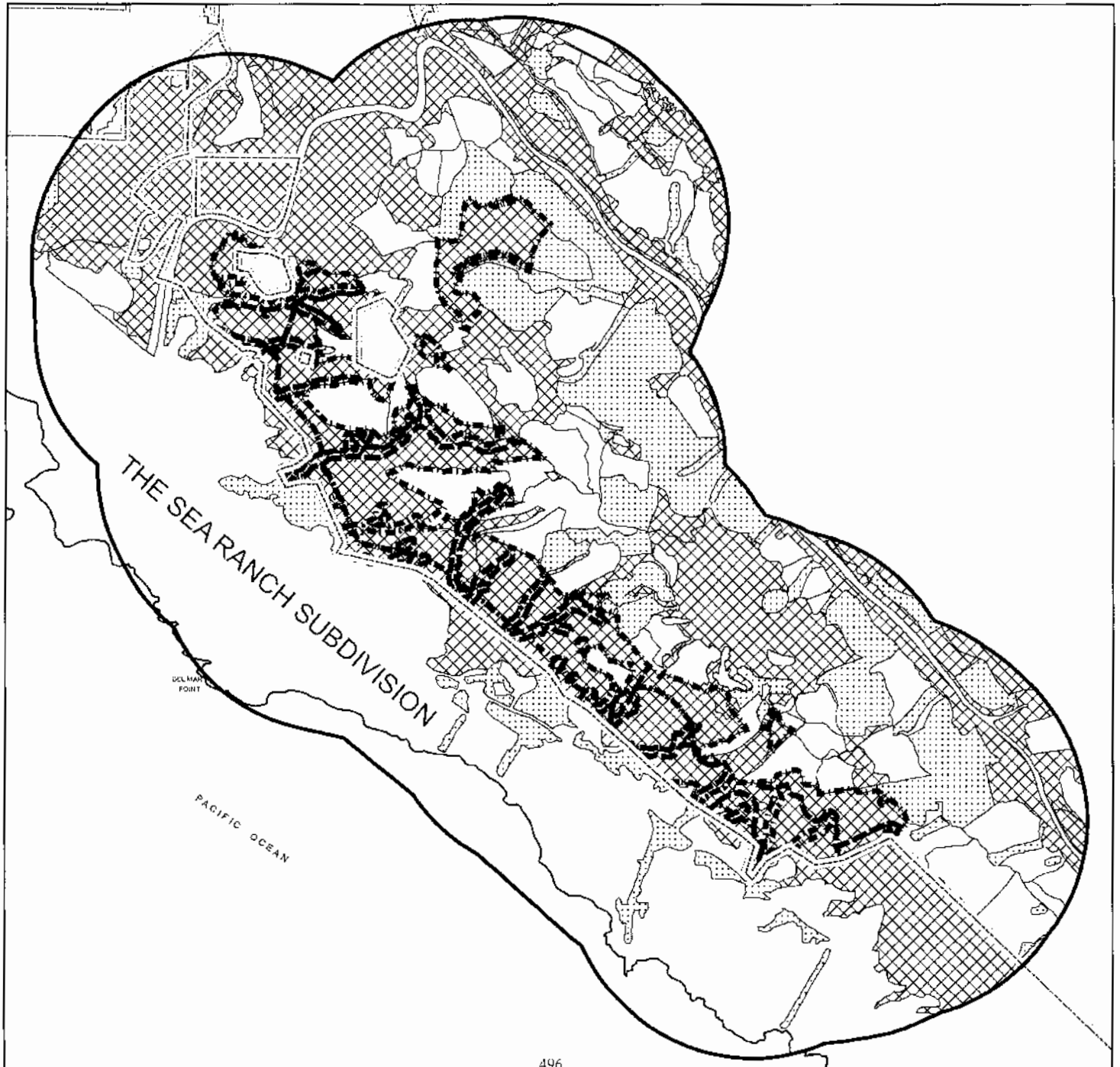
1:35,000

Legend

	0.7 Mile Buffer		HABITAT TYPE Nest/Roost
	Steam Donkey THP Boundary		Forage
	Property Boundary		Unsuitable

PRE HARVEST HABITAT

NEST/ROOST	2,466 ACRES
FORAGE	842 ACRES
UNSUITABLE	2,912 ACRES

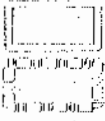


STEAM DONKEY THP PRE HARVEST NSO HABITAT WITHIN 0.7 MILES



JULY 14, 2023

Legend



0.7 Mile Buffer

Steam Donkey THP Boundary

Habitat Type

2 = Nest/Roost

3 = Forage

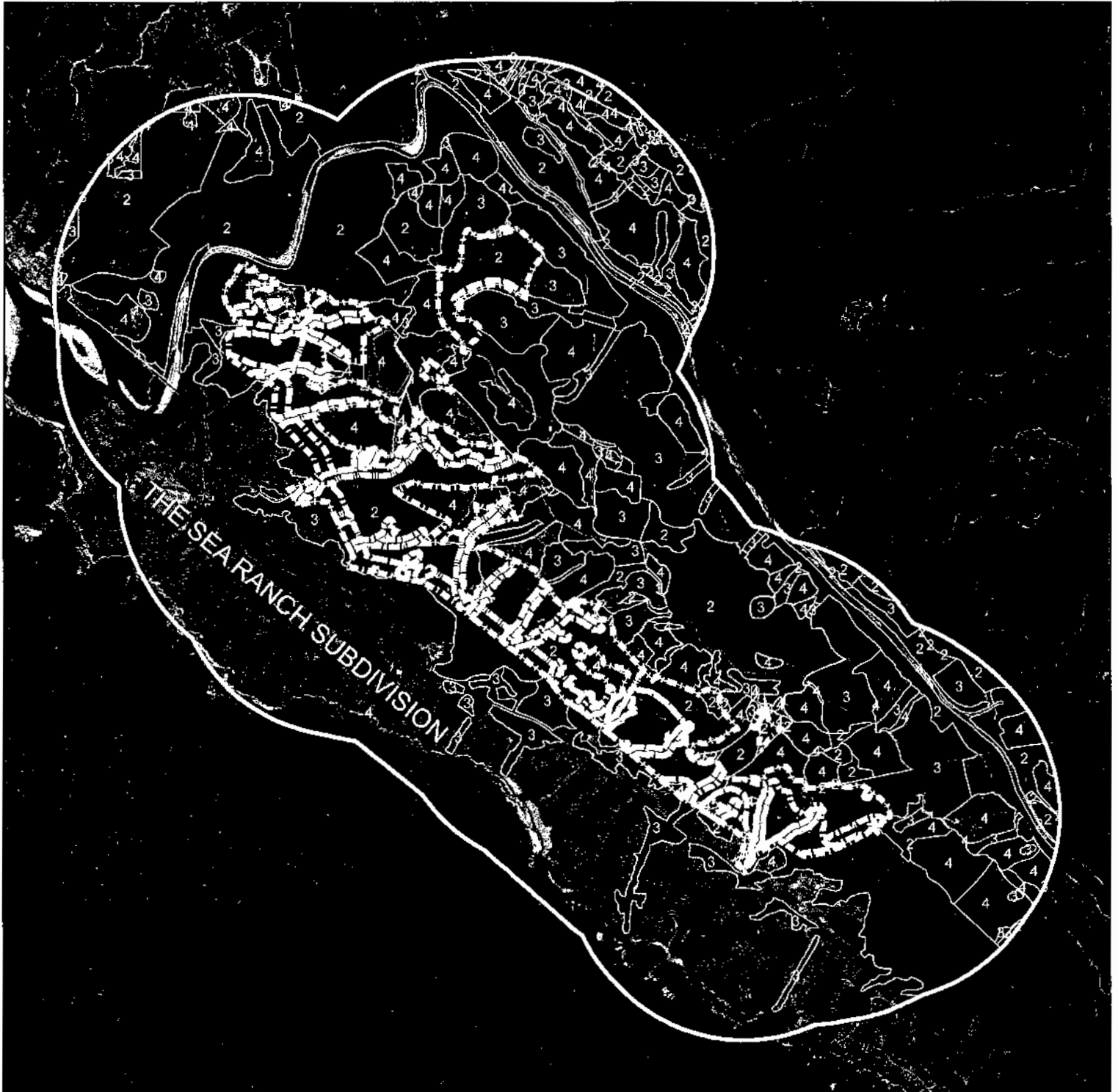
4 = Unsuitable

PRE HARVEST HABITAT

NEST/ROOST 2,466 ACRES

FORAGE 842 ACRES

UNSUITABLE 2,912 ACRES



STEAM DONKEY THP POST HARVEST NSO HABITAT WITHIN 0.7 MILES

JULY 14, 2023

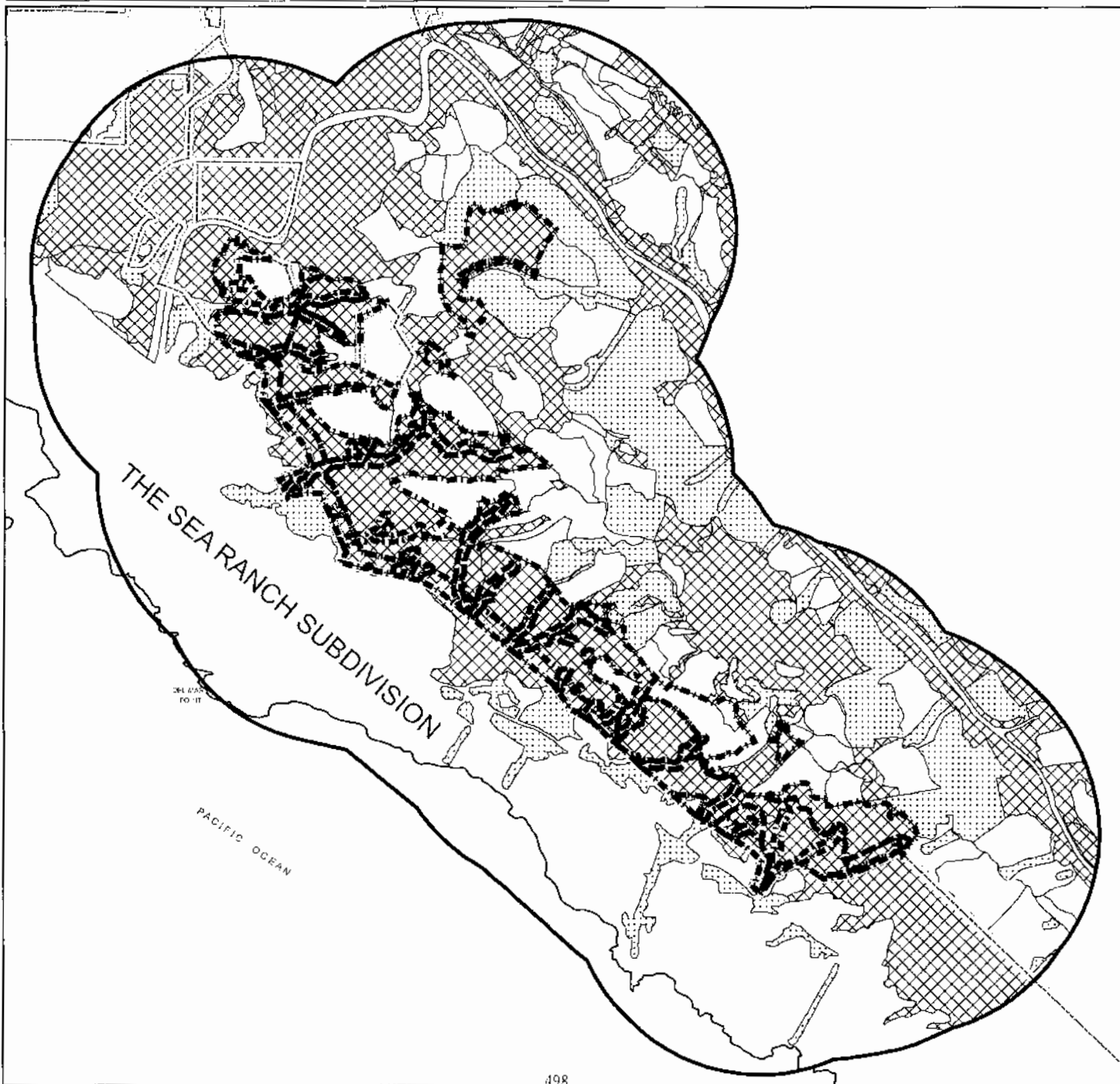


Legend

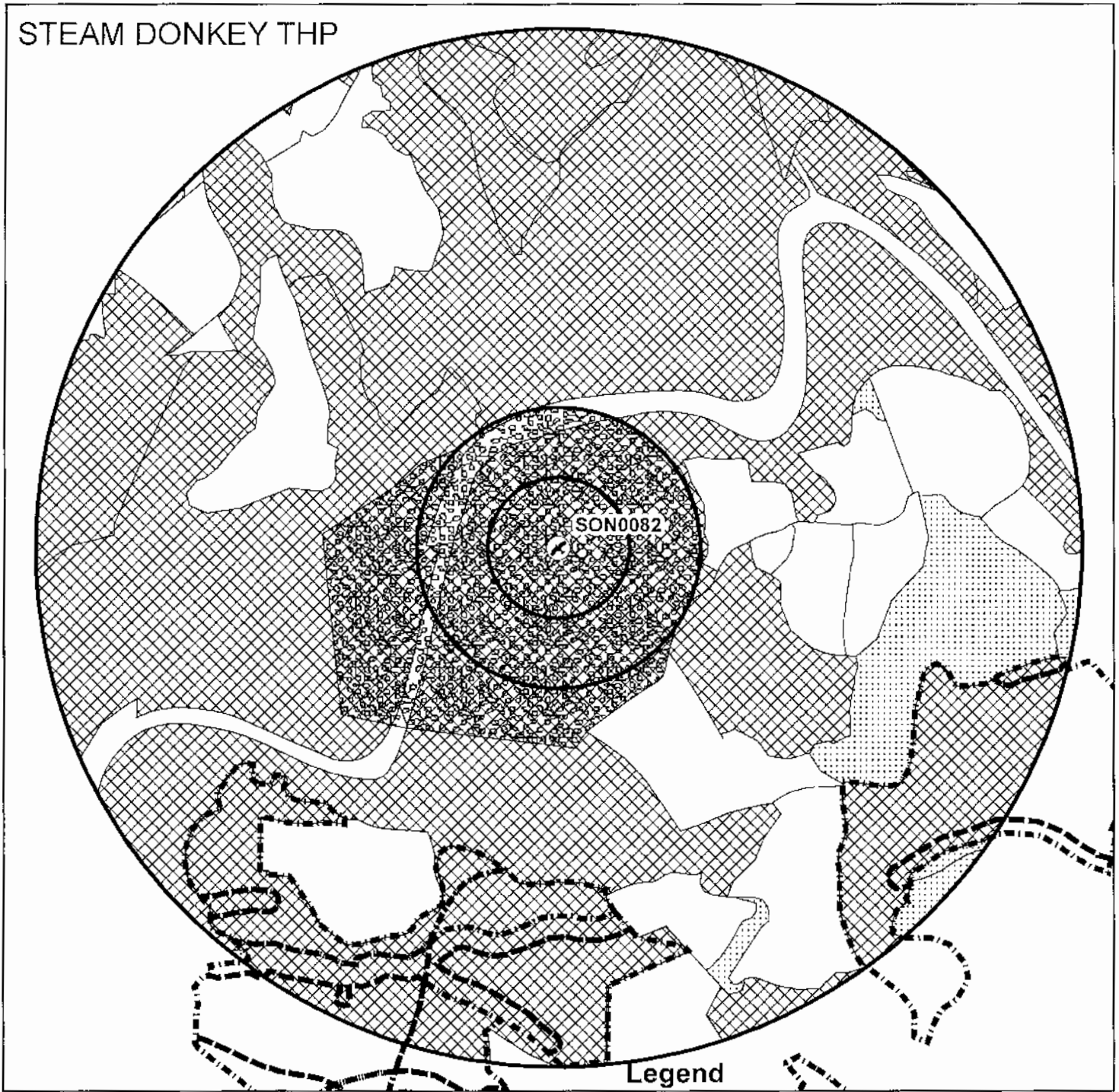
	0.7 Mile Buffer	HABITAT TYPE		NEST/ROOST
	Steam Donkey THP Boundary		FORAGE	
	Property Boundary		UNSUITABLE	

POST HARVEST HABITAT

NEST/ROOST	2,431 ACRES
FORAGE	842 ACRES
UNSUITABLE	2,947 ACRES



STEAM DONKEY THP



SON0082 PRE AND POST HARVEST
HABITAT MAP (0.7 MILE)

HABITAT TOTALS

NEST/ROOST 697 ac.
 FORAGE 45 ac.
 UNSUITABLE 243 ac.

TOTAL ACRES 985 ac.
 CORE AREA = 100 ac. N/R

Legend

- SON0082 LOCATION
- 500 FOOT BUFFER
- 1,000 FOOT BUFFER
- 0.7 MILE BUFFER
- STEAM DONKEY BOUNDARY

Habitat Type

- Nest/Roost
- Forage
- Unsuitable
- SON0082 CORE AREA



July 14, 2023

1:12,000



SON0082 PRE AND POST HARVEST
HABITAT MAP (0.7 MILE)

HABITAT TOTALS

NEST/ROOST 697 ac.
 FORAGE 45 ac.
 UNSUITABLE 243 ac.

TOTAL ACRES 985 ac.
 CORE AREA = 100 ac. N/R

Legend

- SON0082 LOCATION
- STEAM DONKEY BOUNDARY
- 500 FOOT BUFFER
- SON0082 CORE AREA
- 1,000 FOOT BUFFER
- 0.7 MILE BUFFER

Habitat Type
 2 = Nest/Roost
 3 = Forage
 4 = Unsuitable

July 14, 2023

1:12,000

Spotted Owl Visit Summary

Steam Donkey THP

Active Stations

Station	Date	Surveyor	Wind	Weather	Start	End	Behavior	Sex	Dist.	Acmu
<i>Year 2022</i>										
104	03/07/22	Town	<1 mph	Clear	0:50	1:00	No Contact	No Contact	0	0
Barred owl by river moved to surveyor										
104	03/14/22	Town	<1 mph	Clear	2:00	2:10	No Contact	No Contact	0	0
104	04/15/22	Town	1-3 mph	Overcast	23:01	23:11	No Contact	No Contact	0	0
104	04/23/22	Town	1-3 mph	Clear	2:02	2:12	No Contact	No Contact	0	0
104	05/25/22	Town	<1 mph	Clear	2:25	2:35	No Contact	No Contact	0	0
104	06/01/22	Town	1-3 mph	Clear	3:00	3:10	No Contact	No Contact	0	0
<i>Year 2023</i>										
104	03/08/23	Town	<1 mph	Partly Clou	22:16	22:26	No Contact	No Contact	0	0
104	04/07/23	Town	<1 mph	Overcast	23:40	23:50	No Contact	No Contact	0	0
104	04/14/23	Town	1-3 mph	Partly Clou	1:00	1:10	No Contact	No Contact	0	0
104	04/21/23	Town	1-3 mph	Partly Clou	20:00	20:10	No Contact	No Contact	0	0
104	05/09/23	Town	<1 mph	Clear	1:25	1:35	No Contact	No Contact	0	0
104	05/16/23	Town	1-3 mph	Clear	2:15	2:25	No Contact	No Contact	0	0
<i>Year 2022</i>										
105	03/03/22	Town	<1 mph	Partly Clou	22:00	22:10	No Contact	No Contact	0	0
105	03/10/22	Town	<1 mph	Clear	21:59	22:09	No Contact	No Contact	0	0
105	04/09/22	Town	8-12 mph	Clear	1:59	2:09	No Contact	No Contact	0	0
105	04/19/22	Town	<1 mph	Fog	1:17	1:27	No Contact	No Contact	0	0
Barred owl landed above surveyor										
105	04/26/22	Town	1-3 mph	Clear	23:08	23:18	No Contact	No Contact	0	0
105	05/28/22	Town	4-7 mph	Fog	0:46	0:56	No Contact	No Contact	0	0
Barred owl flew in										
<i>Year 2023</i>										
105	03/05/23	Town	<1 mph	Partly Clou	21:28	21:38	No Contact	No Contact	0	0
105	04/08/23	Town	<1 mph	Partly Clou	22:59	23:09	No Contact	No Contact	0	0
105	04/15/23	Town	1-3 mph	Clear	23:45	23:54	No Contact	No Contact	0	0
Barred Owl flew in to surveyor										
105	05/07/23	Town	1-3 mph	Overcast	0:27	0:37	No Contact	No Contact	0	0
105	05/14/23	Town	1-3 mph	Partly Clou	1:16	1:26	No Contact	No Contact	0	0
105	05/21/23	Town	1-3 mph	Partly Clou	1:14	1:24	No Contact	No Contact	0	0
Barred Owl										
<i>Year 2022</i>										
106	03/07/22	Town	<1 mph	Clear	0:20	0:30	No Contact	No Contact	0	0
106	03/14/22	Town	<1 mph	Clear	2:45	2:55	No Contact	No Contact	0	0
106	04/15/22	Town	1-3 mph	Overcast	23:20	23:30	No Contact	No Contact	0	0
106	04/23/22	Town	1-3 mph	Clear	1:33	1:43	No Contact	No Contact	0	0
Very vocal barred owl flew to surveyor										
106	05/25/22	Town	<1 mph	Clear	1:39	1:49	No Contact	No Contact	0	0
Barred owl following me										
106	06/01/22	Town	1-3 mph	Clear	21:17	21:27	No Contact	No Contact	0	0
Barred owl at station										
<i>Year 2023</i>										
106	03/08/23	Town	<1 mph	Partly Clou	21:46	21:56	No Contact	No Contact	0	0
106	04/07/23	Town	<1 mph	Overcast	0:15	0:30	No Contact	No Contact	0	0
Barred Owl										
106	04/14/23	Town	1-3 mph	Partly Clou	0:23	0:33	No Contact	No Contact	0	0
Silent Barred Owl										
106	04/21/23	Town	1-3 mph	Partly Clou	20:25	20:35	No Contact	No Contact	0	0
Barred Owl										
106	05/09/23	Town	<1 mph	Clear	0:49	1:00	No Contact	No Contact	0	0

	<i>Station</i>	<i>Date</i>	<i>Surveyor</i>	<i>Wind</i>	<i>Weather</i>	<i>Start</i>	<i>End</i>	<i>Behavior</i>	<i>Sex</i>	<i>Dist.</i>	<i>Azmu</i>
	106	05/16/23	Town	1-3 mph	Clear	1:58	2:08	No Contact	No Contact	0	0
<i>Year</i>	<i>2022</i>										
	108	03/07/22	Town	<1 mph	Clear	0:05	0:15	No Contact	No Contact	0	0
	108	03/14/22	Town	<1 mph	Clear	3:00	3:10	No Contact	No Contact	0	0
	108	04/15/22	Town	1-3 mph	Overcast	23:35	23:45	No Contact	No Contact	0	0
	Mist from thick fog and rain starting										
	108	04/23/22	Town	1-3 mph	Clear	1:18	1:28	No Contact	No Contact	0	0
	108	05/25/22	Town	<1 mph	Clear	1:24	1:34	No Contact	No Contact	0	0
	Barred owl										
	108	06/01/22	Town	1-3 mph	Clear	21:30	21:40	No Contact	No Contact	0	0
<i>Year</i>	<i>2023</i>										
	108	03/08/23	Town	<1 mph	Partly Clou	21:30	21:40	No Contact	No Contact	0	0
	108	04/07/23	Town	<1 mph	Overcast	0:30	0:40	No Contact	No Contact	0	0
	108	04/14/23	Town	1-3 mph	Partly Clou	0:10	0:20	No Contact	No Contact	0	0
	108	04/21/23	Town	1-3 mph	Partly Clou	20:38	20:48	No Contact	No Contact	0	0
	108	05/09/23	Town	<1 mph	Clear	0:34	0:44	No Contact	No Contact	0	0
	108	05/16/23	Town	1-3 mph	Clear	1:45	1:55	No Contact	No Contact	0	0
	Barred Owl by River										
<i>Year</i>	<i>2022</i>										
	110	03/07/22	Town	<1 mph	Clear	22:20	22:30	No Contact	No Contact	0	0
	110	03/14/22	Town	<1 mph	Clear	2:17	2:27	No Contact	No Contact	0	0
	110	04/16/22	Town	4-7 mph	Partly Clou	0:06	0:16	No Contact	No Contact	0	0
	Barred owl										
	110	04/23/22	Town	1-3 mph	Clear	0:59	1:09	No Contact	No Contact	0	0
	110	05/25/22	Town	<1 mph	Clear	1:59	2:09	No Contact	No Contact	0	0
	110	06/01/22	Town	1-3 mph	Clear	20:50	21:00	No Contact	No Contact	0	0
<i>Year</i>	<i>2023</i>										
	110	03/08/23	Town	<1 mph	Partly Clou	22:00	22:10	No Contact	No Contact	0	0
	110	04/07/23	Town	<1 mph	Overcast	23:00	23:10	No Contact	No Contact	0	0
	110	04/14/23	Town	1-3 mph	Partly Clou	0:39	0:49	No Contact	No Contact	0	0
	110	04/21/23	Town	1-3 mph	Partly Clou	21:50	22:00	No Contact	No Contact	0	0
	110	05/09/23	Town	<1 mph	Clear	1:09	1:19	No Contact	No Contact	0	0
	110	05/16/23	Town	1-3 mph	Clear	20:20	20:30	No Contact	No Contact	0	0
	Barred Owl flew in										
<i>Year</i>	<i>2022</i>										
	112	03/07/22	Town	<1 mph	Clear	22:05	22:15	No Contact	No Contact	0	0
	112	03/15/22	Town	<1 mph	Fog	5:07	5:17	No Contact	No Contact	0	0
	112	04/16/22	Town	4-7 mph	Partly Clou	23:20	23:30	No Contact	No Contact	0	0
	112	04/23/22	Town	1-3 mph	Clear	20:00	20:10	No Contact	No Contact	0	0
	112	05/25/22	Town	<1 mph	Clear	23:57	0:07	No Contact	No Contact	0	0
	112	06/01/22	Town	1-3 mph	Clear	23:17	23:27	No Contact	No Contact	0	0
<i>Year</i>	<i>2023</i>										
	112	03/08/23	Town	<1 mph	Partly Clou	22:40	22:50	No Contact	No Contact	0	0
	112	04/07/23	Town	<1 mph	Overcast	23:16	23:26	No Contact	No Contact	0	0
	112	04/14/23	Town	1-3 mph	Partly Clou	22:54	23:04	No Contact	No Contact	0	0
	112	04/21/23	Town	1-3 mph	Partly Clou	22:20	22:30	No Contact	No Contact	0	0
	112	05/09/23	Town	<1 mph	Clear	23:04	23:14	No Contact	No Contact	0	0
	112	05/16/23	Town	1-3 mph	Clear	21:39	21:49	No Contact	No Contact	0	0
<i>Year</i>	<i>2022</i>										
	114	03/07/22	Town	<1 mph	Clear	21:50	22:00	No Contact	No Contact	0	0
	114	03/15/22	Town	<1 mph	Fog	5:22	5:32	No Contact	No Contact	0	0
	114	04/16/22	Town	4-7 mph	Partly Clou	23:34	23:44	No Contact	No Contact	0	0
	114	04/23/22	Town	1-3 mph	Clear	20:13	20:23	No Contact	No Contact	0	0
	114	05/25/22	Town	<1 mph	Clear	23:43	23:53	No Contact	No Contact	0	0
	114	06/01/22	Town	1-3 mph	Clear	23:04	23:14	No Contact	No Contact	0	0
<i>Year</i>	<i>2023</i>										

<i>Station</i>	<i>Date</i>	<i>Surveyor</i>	<i>Wind</i>	<i>Weather</i>	<i>Start</i>	<i>End</i>	<i>Behavior</i>	<i>Sex</i>	<i>Dist.</i>	<i>Azmu</i>
114	03/06/23	Town	<1 mph	Partly Clou	22:20	22:30	No Contact	No Contact	0	0
114	04/07/23	Town	<1 mph	Overcast	23:39	23:49	No Contact	No Contact	0	0
114	04/14/23	Town	1-3 mph	Partly Clou	23:10	23:20	No Contact	No Contact	0	0
114	04/21/23	Town	1-3 mph	Partly Clou	22:07	22:17	No Contact	No Contact	0	0
114	05/09/23	Town	<1 mph	Clear	22:49	23:00	No Contact	No Contact	0	0
114	05/16/23	Town	1-3 mph	Clear	21:25	21:35	No Contact	No Contact	0	0
<i>Year 2022</i>										
118	03/07/22	Town	<1 mph	Clear	20:09	20:19	No Contact	No Contact	0	0
118	03/14/22	Town	4-7 mph	Overcast	21:10	21:20	No Contact	No Contact	0	0
118	04/16/22	Town	4-7 mph	Partly Clou	23:50	0:00	No Contact	No Contact	0	0
118	04/23/22	Town	1-3 mph	Clear	20:27	20:37	No Contact	No Contact	0	0
118	05/25/22	Town	<1 mph	Clear	23:25	23:35	No Contact	No Contact	0	0
118	06/01/22	Town	1-3 mph	Clear	22:48	23:00	No Contact	No Contact	0	0
<i>Year 2023</i>										
118	03/06/23	Town	<1 mph	Partly Clou	21:15	21:25	No Contact	No Contact	0	0
118	04/07/23	Town	<1 mph	Overcast	23:25	23:35	No Contact	No Contact	0	0
118	04/14/23	Town	1-3 mph	Partly Clou	22:40	22:50	No Contact	No Contact	0	0
118	04/21/23	Town	1-3 mph	Partly Clou	22:45	22:55	No Contact	No Contact	0	0
118	05/09/23	Town	<1 mph	Clear	23:20	23:30	No Contact	No Contact	0	0
118	05/16/23	Town	1-3 mph	Clear	21:56	22:06	No Contact	No Contact	0	0
<i>Year 2022</i>										
120	03/07/22	Town	<1 mph	Clear	23:15	23:25	No Contact	No Contact	0	0
120	03/14/22	Town	4-7 mph	Overcast	21:49	22:00	No Contact	No Contact	0	0
Light rain starting										
120	04/16/22	Town	4-7 mph	Partly Clou	0:53	1:03	No Contact	No Contact	0	0
Same GHOW as 785										
120	04/23/22	Town	1-3 mph	Clear	0:12	0:22	No Contact	No Contact	0	0
Barred owl flew in										
120	05/25/22	Town	<1 mph	Clear	0:34	0:44	No Contact	No Contact	0	0
Barred owl										
120	06/01/22	Town	1-3 mph	Clear	22:14	22:24	No Contact	No Contact	0	0
<i>Year 2023</i>										
120	03/06/23	Town	<1 mph	Partly Clou	21:44	21:54	No Contact	No Contact	0	0
120	04/07/23	Town	<1 mph	Overcast	23:06	23:16	No Contact	No Contact	0	0
120	04/14/23	Town	1-3 mph	Partly Clou	23:24	23:34	No Contact	No Contact	0	0
120	04/21/23	Town	1-3 mph	Partly Clou	21:25	21:35	No Contact	No Contact	0	0
GHOW by river										
120	05/09/23	Town	<1 mph	Clear	23:50	0:00	No Contact	No Contact	0	0
120	05/16/23	Town	1-3 mph	Clear	21:04	21:14	No Contact	No Contact	0	0
<i>Year 2022</i>										
122	03/07/22	Town	<1 mph	Clear	20:46	20:56	No Contact	No Contact	0	0
122	03/15/22	Town	<1 mph	Fog	5:55	6:05	No Contact	No Contact	0	0
122	04/02/22	Reynolds	<1 mph	Clear	0:32	0:42	No Contact	No Contact	0	0
122	04/23/22	Town	1-3 mph	Clear	20:58	21:08	No Contact	No Contact	0	0
122	05/25/22	Town	<1 mph	Clear	23:07	23:17	No Contact	No Contact	0	0
122	06/01/22	Town	1-3 mph	Clear	2:20	2:30	No Contact	No Contact	0	0
<i>Year 2023</i>										
122	03/06/23	Town	<1 mph	Partly Clou	20:44	20:54	No Contact	No Contact	0	0
122	04/07/23	Town	<1 mph	Overcast	22:04	22:14	No Contact	No Contact	0	0
122	04/14/23	Town	1-3 mph	Partly Clou	19:30	19:55	No Contact	No Contact	0	0
122	04/21/23	Town	1-3 mph	Partly Clou	23:20	23:30	No Contact	No Contact	0	0
122	05/09/23	Town	<1 mph	Clear	22:34	22:44	No Contact	No Contact	0	0
122	05/16/23	Town	1-3 mph	Clear	22:47	22:57	No Contact	No Contact	0	0
<i>Year 2022</i>										
124	03/07/22	Town	<1 mph	Clear	20:30	20:40	No Contact	No Contact	0	0
124	03/15/22	Town	<1 mph	Fog	5:38	5:48	No Contact	No Contact	0	0

	<i>Station</i>	<i>Date</i>	<i>Surveyor</i>	<i>Wind</i>	<i>Weather</i>	<i>Start</i>	<i>End</i>	<i>Behavior</i>	<i>Sex</i>	<i>Dist.</i>	<i>Azmu</i>
	124	04/13/22	Town	1-3 mph	Overcast	22:09	22:19	No Contact	No Contact	0	0
	124	04/23/22	Town	1-3 mph	Clear	20:45	20:55	No Contact	No Contact	0	0
	124	05/25/22	Town	<1 mph	Clear	22:46	22:59	No Contact	No Contact	0	0
	124	06/01/22	Town	1-3 mph	Clear	23:40	23:50	No Contact	No Contact	0	0
<i>Year</i>	<i>2023</i>										
	124	03/06/23	Town	<1 mph	Partly Clou	20:30	20:40	No Contact	No Contact	0	0
	124	04/07/23	Town	<1 mph	Overcast	22:25	22:35	No Contact	No Contact	0	0
	124	04/14/23	Town	1-3 mph	Partly Clou	19:59	20:09	No Contact	No Contact	0	0
	124	04/21/23	Town	1-3 mph	Partly Clou	22:58	23:08	No Contact	No Contact	0	0
	124	05/09/23	Town	<1 mph	Clear	22:15	22:25	No Contact	No Contact	0	0
	124	05/16/23	Town	1-3 mph	Clear	22:10	22:20	No Contact	No Contact	0	0
<i>Year</i>	<i>2022</i>										
	126	03/07/22	Town	<1 mph	Clear	21:05	21:15	No Contact	No Contact	0	0
	126	03/15/22	Town	<1 mph	Fog	6:10	6:20	No Contact	No Contact	0	0
	126	04/13/22	Town	1-3 mph	Overcast	21:38	21:48	No Contact	No Contact	0	0
	126	04/23/22	Town	1-3 mph	Clear	21:19	21:29	No Contact	No Contact	0	0
	126	05/25/22	Town	<1 mph	Clear	22:15	22:25	No Contact	No Contact	0	0
	126	06/01/22	Town	1-3 mph	Clear	2:07	2:17	No Contact	No Contact	0	0
<i>Year</i>	<i>2023</i>										
	126	03/06/23	Town	<1 mph	Partly Clou	20:15	20:25	No Contact	No Contact	0	0
	126	04/07/23	Town	<1 mph	Overcast	21:50	22:00	No Contact	No Contact	0	0
	126	04/14/23	Town	1-3 mph	Partly Clou	20:15	20:25	No Contact	No Contact	0	0
	126	04/21/23	Town	1-3 mph	Partly Clou	23:34	23:44	No Contact	No Contact	0	0
	126	05/09/23	Town	<1 mph	Clear	21:59	22:09	No Contact	No Contact	0	0
	126	05/16/23	Town	1-3 mph	Clear	22:30	22:40	No Contact	No Contact	0	0
<i>Year</i>	<i>2022</i>										
	128	03/07/22	Town	<1 mph	Clear	19:55	20:05	No Contact	No Contact	0	0
	128	03/14/22	Town	4-7 mph	Overcast	20:53	21:03	No Contact	No Contact	0	0
	128	04/13/22	Town	1-3 mph	Overcast	21:54	22:04	No Contact	No Contact	0	0
	128	04/23/22	Town	1-3 mph	Clear	21:53	22:03	No Contact	No Contact	0	0
	128	05/25/22	Town	<1 mph	Clear	22:31	22:41	No Contact	No Contact	0	0
	128	06/01/22	Town	1-3 mph	Clear	23:54	0:04	No Contact	No Contact	0	0
<i>Year</i>	<i>2023</i>										
	128	03/06/23	Town	<1 mph	Partly Clou	19:45	19:55	No Contact	No Contact	0	0
	128	04/07/23	Town	<1 mph	Overcast	21:29	21:39	No Contact	No Contact	0	0
	128	04/14/23	Town	1-3 mph	Partly Clou	20:30	20:40	No Contact	No Contact	0	0
	128	04/21/23	Town	1-3 mph	Partly Clou	23:56	0:06	No Contact	No Contact	0	0
	128	05/09/23	Town	<1 mph	Clear	21:47	21:57	No Contact	No Contact	0	0
	128	05/16/23	Town	1-3 mph	Clear	23:09	23:19	No Contact	No Contact	0	0
<i>Year</i>	<i>2022</i>										
	130	03/07/22	Town	<1 mph	Clear	23:00	23:10	No Contact	No Contact	0	0
	130	03/14/22	Town	4-7 mph	Overcast	21:30	21:40	No Contact	No Contact	0	0
	130	04/16/22	Town	4-7 mph	Partly Clou	1:07	1:17	No Contact	No Contact	0	0
	130	04/23/22	Town	1-3 mph	Clear	23:56	0:06	No Contact	No Contact	0	0
	130	05/25/22	Town	<1 mph	Clear	0:20	0:30	No Contact	No Contact	0	0
	130	06/01/22	Town	1-3 mph	Clear	22:29	22:39	No Contact	No Contact	0	0
<i>Year</i>	<i>2023</i>										
	130	03/06/23	Town	<1 mph	Partly Clou	21:30	21:40	No Contact	No Contact	0	0
	130	04/07/23	Town	<1 mph	Overcast	22:50	23:00	No Contact	No Contact	0	0
				GHOW down by river							
	130	04/14/23	Town	1-3 mph	Partly Clou	22:24	22:34	No Contact	No Contact	0	0
	130	04/21/23	Town	1-3 mph	Partly Clou	1:55	2:05	No Contact	No Contact	0	0
				GHOW by river. Same as station 120.							
	130	05/09/23	Town	<1 mph	Clear	23:36	23:46	No Contact	No Contact	0	0
	130	05/16/23	Town	1-3 mph	Clear	0:17	0:27	No Contact	No Contact	0	0
				Barred Owl by River							

<i>Station</i>	<i>Date</i>	<i>Surveyor</i>	<i>Wind</i>	<i>Weather</i>	<i>Start</i>	<i>End</i>	<i>Behavior</i>	<i>Sex</i>	<i>Dist.</i>	<i>Asmu</i>
<i>Year 2022</i>										
132	03/07/22	Town	<1 mph	Clear	21:20	21:30	No Contact	No Contact	0	0
132	03/15/22	Town	<1 mph	Fog	6:27	6:37	No Contact	No Contact	0	0
132	04/13/22	Town	1-3 mph	Overcast	21:25	21:35	No Contact	No Contact	0	0
132	04/23/22	Town	1-3 mph	Clear	21:37	21:47	No Contact	No Contact	0	0
132	05/25/22	Town	<1 mph	Clear	21:59	22:09	No Contact	No Contact	0	0
132	06/01/22	Town	1-3 mph	Clear	1:53	2:03	No Contact	No Contact	0	0
<i>Year 2023</i>										
132	03/06/23	Town	<1 mph	Partly Clou	19:59	20:09	No Contact	No Contact	0	0
132	04/07/23	Town	<1 mph	Overcast	21:15	21:25	No Contact	No Contact	0	0
132	04/14/23	Town	1-3 mph	Partly Clou	20:50	21:00	No Contact	No Contact	0	0
132	04/21/23	Town	1-3 mph	Partly Clou	0:10	0:20	No Contact	No Contact	0	0
132	05/09/23	Town	<1 mph	Clear	21:30	21:40	No Contact	No Contact	0	0
132	05/16/23	Town	1-3 mph	Clear	1:15	1:25	No Contact	No Contact	0	0
<i>Year 2022</i>										
134	03/07/22	Town	<1 mph	Clear	19:00	19:10	No Contact	No Contact	0	0
134	03/14/22	Town	4-7 mph	Overcast	20:04	20:14	No Contact	No Contact	0	0
134	04/13/22	Town	1-3 mph	Overcast	20:34	20:44	No Contact	No Contact	0	0
134	04/23/22	Town	1-3 mph	Clear	22:53	23:03	No Contact	No Contact	0	0
134	05/25/22	Town	<1 mph	Clear	21:13	21:23	No Contact	No Contact	0	0
134	06/01/22	Town	1-3 mph	Clear	1:30	1:40	No Contact	No Contact	0	0
<i>Year 2023</i>										
134	03/06/23	Town	<1 mph	Partly Clou	18:37	18:47	No Contact	No Contact	0	0
134	04/07/23	Town	<1 mph	Overcast	20:16	20:26	No Contact	No Contact	0	0
134	04/14/23	Town	1-3 mph	Partly Clou	21:07	21:17	No Contact	No Contact	0	0
134	04/21/23	Town	1-3 mph	Partly Clou	0:26	0:36	No Contact	No Contact	0	0
134	05/09/23	Town	<1 mph	Clear	21:15	21:25	No Contact	No Contact	0	0
134	05/16/23	Town	1-3 mph	Clear	0:57	1:07	No Contact	No Contact	0	0
<i>Year 2022</i>										
444	03/07/22	Town	<1 mph	Clear	19:37	19:47	No Contact	No Contact	0	0
444	03/14/22	Town	4-7 mph	Overcast	20:38	20:48	No Contact	No Contact	0	0
444	04/13/22	Town	1-3 mph	Overcast	21:06	21:16	No Contact	No Contact	0	0
444	04/23/22	Town	1-3 mph	Clear	22:08	22:18	No Contact	No Contact	0	0
444	05/25/22	Town	<1 mph	Clear	21:44	21:54	No Contact	No Contact	0	0
444	06/01/22	Town	1-3 mph	Clear	0:09	0:19	No Contact	No Contact	0	0
<i>Year 2023</i>										
444	03/06/23	Town	<1 mph	Partly Clou	19:30	19:40	No Contact	No Contact	0	0
444	04/07/23	Town	<1 mph	Overcast	21:00	21:10	No Contact	No Contact	0	0
444	04/14/23	Town	1-3 mph	Partly Clou	22:10	22:20	No Contact	No Contact	0	0
444	04/21/23	Town	1-3 mph	Partly Clou	0:58	1:08	No Contact	No Contact	0	0
444	05/09/23	Town	<1 mph	Clear	20:59	21:09	No Contact	No Contact	0	0
444	05/16/23	Town	1-3 mph	Clear	23:25	23:35	No Contact	No Contact	0	0
<i>Year 2022</i>										
446	03/07/22	Town	<1 mph	Clear	19:20	19:30	No Contact	No Contact	0	0
446	03/14/22	Town	4-7 mph	Overcast	20:22	20:32	No Contact	No Contact	0	0
446	04/13/22	Town	1-3 mph	Overcast	20:50	21:00	No Contact	No Contact	0	0
446	04/23/22	Town	1-3 mph	Clear	22:25	22:35	No Contact	No Contact	0	0
446	05/25/22	Town	<1 mph	Clear	21:30	21:40	No Contact	No Contact	0	0
446	06/01/22	Town	1-3 mph	Clear	0:23	0:33	No Contact	No Contact	0	0
<i>Year 2023</i>										
446	03/06/23	Town	<1 mph	Partly Clou	18:54	19:04	No Contact	No Contact	0	0
446	04/07/23	Town	<1 mph	Overcast	20:45	20:55	No Contact	No Contact	0	0
446	04/14/23	Town	1-3 mph	Partly Clou	21:34	21:44	No Contact	No Contact	0	0
446	04/21/23	Town	1-3 mph	Partly Clou	1:36	1:46	No Contact	No Contact	0	0
446	05/09/23	Town	<1 mph	Clear	20:43	20:53	No Contact	No Contact	0	0

	<i>Station</i>	<i>Date</i>	<i>Surveyor</i>	<i>Wind</i>	<i>Weather</i>	<i>Start</i>	<i>End</i>	<i>Behavior</i>	<i>Sex</i>	<i>Dist.</i>	<i>Azmu</i>
	446	05/16/23	Town	1-3 mph	Clear	23:39	23:50	No Contact	No Contact	0	0
<i>Year</i>	<i>2022</i>										
	458	03/07/22	Town	<1 mph	Clear	18:46	18:56	No Contact	No Contact	0	0
	458	03/14/22	Town	4-7 mph	Overcast	19:50	20:00	No Contact	No Contact	0	0
	458	04/13/22	Town	1-3 mph	Overcast	20:19	20:29	No Contact	No Contact	0	0
	Fox										
	458	04/23/22	Town	1-3 mph	Clear	22:40	22:50	No Contact	No Contact	0	0
	458	05/25/22	Town	<1 mph	Clear	21:00	21:10	No Contact	No Contact	0	0
	458	06/01/22	Town	1-3 mph	Clear	1:17	1:27	No Contact	No Contact	0	0
	Barred owl										
<i>Year</i>	<i>2023</i>										
	458	03/06/23	Town	<1 mph	Partly Clou	18:24	18:34	No Contact	No Contact	0	0
	458	04/07/23	Town	<1 mph	Overcast	20:00	20:10	No Contact	No Contact	0	0
	458	04/14/23	Town	1-3 mph	Partly Clou	21:20	21:30	No Contact	No Contact	0	0
	458	04/21/23	Town	1-3 mph	Partly Clou	0:40	0:50	No Contact	No Contact	0	0
	458	05/09/23	Town	<1 mph	Clear	20:29	20:39	No Contact	No Contact	0	0
	458	05/16/23	Town	1-3 mph	Clear	0:45	0:55	No Contact	No Contact	0	0
<i>Year</i>	<i>2022</i>										
	460	03/07/22	Town	<1 mph	Clear	18:30	18:40	No Contact	No Contact	0	0
	GHOW										
	460	03/14/22	Town	4-7 mph	Overcast	19:34	19:44	No Contact	No Contact	0	0
	460	04/13/22	Town	1-3 mph	Overcast	20:05	20:15	No Contact	No Contact	0	0
	460	04/23/22	Town	1-3 mph	Clear	23:10	23:20	No Contact	No Contact	0	0
	460	05/25/22	Town	<1 mph	Clear	20:44	20:54	No Contact	No Contact	0	0
	460	06/01/22	Town	1-3 mph	Clear	0:45	0:55	No Contact	No Contact	0	0
<i>Year</i>	<i>2023</i>										
	460	03/06/23	Town	<1 mph	Partly Clou	18:10	18:21	No Contact	No Contact	0	0
	460	04/07/23	Town	<1 mph	Overcast	19:43	19:53	No Contact	No Contact	0	0
	460	04/14/23	Town	1-3 mph	Partly Clou	21:55	22:05	No Contact	No Contact	0	0
	460	04/21/23	Town	1-3 mph	Partly Clou	1:20	1:30	No Contact	No Contact	0	0
	460	05/09/23	Town	<1 mph	Clear	20:14	20:24	No Contact	No Contact	0	0
	460	05/16/23	Town	1-3 mph	Clear	0:00	0:10	No Contact	No Contact	0	0
<i>Year</i>	<i>2022</i>										
	748	03/03/22	Town	<1 mph	Partly Clou	21:45	21:55	No Contact	No Contact	0	0
	748	03/10/22	Town	<1 mph	Clear	21:45	21:55	No Contact	No Contact	0	0
	748	04/09/22	Town	8-12 mph	Clear	1:45	1:55	No Contact	No Contact	0	0
	748	04/19/22	Town	<1 mph	Fog	1:04	1:14	No Contact	No Contact	0	0
	748	04/26/22	Town	1-3 mph	Clear	22:51	23:01	No Contact	No Contact	0	0
	748	05/28/22	Town	4-7 mph	Fog	0:30	0:40	No Contact	No Contact	0	0
<i>Year</i>	<i>2023</i>										
	748	03/05/23	Town	<1 mph	Partly Clou	21:15	21:25	No Contact	No Contact	0	0
	748	04/08/23	Town	<1 mph	Partly Clou	22:45	22:55	No Contact	No Contact	0	0
	Barred Owl										
	748	04/15/23	Town	1-3 mph	Clear	22:30	23:40	No Contact	No Contact	0	0
	748	05/07/23	Town	1-3 mph	Overcast	0:40	0:50	No Contact	No Contact	0	0
	748	05/14/23	Town	1-3 mph	Partly Clou	1:30	1:40	No Contact	No Contact	0	0
	748	05/21/23	Town	1-3 mph	Partly Clou	1:30	1:40	No Contact	No Contact	0	0
<i>Year</i>	<i>2022</i>										
	750	03/04/22	Town	<1 mph	Partly Clou	21:50	22:00	No Contact	No Contact	0	0
	750	03/11/22	Town	1-3 mph	Clear	18:22	18:32	No Contact	No Contact	0	0
	750	04/09/22	Town	8-12 mph	Clear	1:06	1:16	No Contact	No Contact	0	0
	750	04/16/22	Town	4-7 mph	Partly Clou	21:18	21:28	No Contact	No Contact	0	0
	750	04/24/22	Town	4-7 mph	Clear	20:13	20:23	No Contact	No Contact	0	0
	750	05/28/22	Town	4-7 mph	Fog	23:45	23:55	No Contact	No Contact	0	0
<i>Year</i>	<i>2023</i>										
	750	03/04/23	Town	1-3 mph	Partly Clou	20:45	20:55	No Contact	No Contact	0	0

<i>Station</i>	<i>Date</i>	<i>Surveyor</i>	<i>Wind</i>	<i>Weather</i>	<i>Start</i>	<i>End</i>	<i>Behavior</i>	<i>Sex</i>	<i>Dist.</i>	<i>Azmu</i>
750	03/11/23	Town	<1 mph	Overcast	20:39	20:49	No Contact	No Contact	0	0
750	04/08/23	Town	<1 mph	Partly Clou	22:25	22:35	No Contact	No Contact	0	0
750	04/15/23	Town	1-3 mph	Clear	22:20	22:30	No Contact	No Contact	0	0
750	05/10/23	Town	<1 mph	Clear	22:40	22:50	No Contact	No Contact	0	0
750	05/17/23	Town	1-3 mph	Clear	22:45	22:55	No Contact	No Contact	0	0
			Barred Owl by River							
<i>Year 2022</i>										
770	03/07/22	Town	<1 mph	Clear	23:48	23:56	No Contact	No Contact	0	0
770	03/14/22	Town	<1 mph	Clear	3:14	3:24	No Contact	No Contact	0	0
			GHOW by river							
770	04/16/22	Town	4-7 mph	Partly Clou	0:25	0:35	No Contact	No Contact	0	0
770	04/23/22	Town	1-3 mph	Clear	0:39	0:49	No Contact	No Contact	0	0
			GHOW across river							
770	05/25/22	Town	<1 mph	Clear	1:07	1:17	No Contact	No Contact	0	0
770	06/01/22	Town	1-3 mph	Clear	21:43	21:53	No Contact	No Contact	0	0
<i>Year 2023</i>										
770	03/06/23	Town	<1 mph	Partly Clou	22:36	22:46	No Contact	No Contact	0	0
770	04/07/23	Town	<1 mph	Overcast	0:14	0:24	No Contact	No Contact	0	0
770	04/14/23	Town	1-3 mph	Partly Clou	23:57	0:07	No Contact	No Contact	0	0
770	04/21/23	Town	1-3 mph	Partly Clou	20:55	21:05	No Contact	No Contact	0	0
770	05/09/23	Town	<1 mph	Clear	0:20	0:30	No Contact	No Contact	0	0
770	05/16/23	Town	1-3 mph	Clear	20:36	20:46	No Contact	No Contact	0	0
<i>Year 2022</i>										
785	03/07/22	Town	<1 mph	Clear	23:30	23:40	No Contact	No Contact	0	0
785	03/14/22	Town	4-7 mph	Overcast	22:05	22:15	No Contact	No Contact	0	0
			Rain picking up- END SURVEY							
785	04/16/22	Town	4-7 mph	Partly Clou	0:39	0:49	No Contact	No Contact	0	0
			Great horned owl by river							
785	04/23/22	Town	1-3 mph	Clear	0:25	0:35	No Contact	No Contact	0	0
785	05/25/22	Town	<1 mph	Clear	0:49	1:00	No Contact	No Contact	0	0
785	06/01/22	Town	1-3 mph	Clear	21:59	22:09	No Contact	No Contact	0	0
<i>Year 2023</i>										
785	03/06/23	Town	<1 mph	Partly Clou	21:59	22:09	No Contact	No Contact	0	0
785	04/07/23	Town	<1 mph	Overcast	23:56	0:06	No Contact	No Contact	0	0
785	04/14/23	Town	1-3 mph	Partly Clou	23:44	23:54	No Contact	No Contact	0	0
			GHOW							
785	04/21/23	Town	1-3 mph	Partly Clou	21:09	21:19	No Contact	No Contact	0	0
785	05/09/23	Town	<1 mph	Clear	0:04	0:14	No Contact	No Contact	0	0
785	05/16/23	Town	1-3 mph	Clear	20:50	21:00	No Contact	No Contact	0	0

Spotted Owl Walk-In Visit Information

As of:

01/01/10

Center	Visit Sta.	Date	Surveyor	Start	End	Wind	Weather	Mouse Result	Occupancy	T	R	Sec	DBH	BA	Visit Type
Son0082	Switchvill	619	106	04/01/10	Town, Chris	15:30	16:30	1-3 mph	Partly Clo	No Contact	No Contact	11N 15W	26		Walk-in
<p>Walked hooting from STA #106 and #107 along road. Walked in woods between road and river near historic area the owls have been found. Can hear people along the river. No wash or pellets located.</p>															
Son0082	Switchvill	654	0	03/28/12	Town, Pam	10:15	12:00	<1 mph	Overcast	No Contact	No Contact	11N 15W	26		Walk-in
<p>Walked up from water treatment plant and around historic AC. Played recording and fished with mouse. No response. DEJU, STJA, CORA, TUVU, HUMM, squirrel, coyote.</p>															
Son0082	Switchvill	666	0	04/30/12	Town, Pam	18:30	19:30	8-12 mp	Clear	No Contact	No Contact	11N 15W	0		Walk-in
<p>Searched around the area and called from gate to station 107. No detections.</p>															
Son0082	Switchvill	673	0	03/04/13	Town, Pam	11:50	13:15	4-7 mph	Partly Clo	No Contact	No Contact	11N 15W	26		Walk-in
<p>Walked along road hooting from station 107 to station 106 area. Then walking into woods around historic AC. No response. DEJU, CORA, STJA, TUVU, UNHUM, dogs, woodrat, tree frog.</p>															
Son0082	Switchvill	686	0	05/31/13	Town, Pam	14:00	15:30	<1 mph	Clear	No Contact	No Contact	11N 15W	26		Walk-in
<p>Walk around historic AC. No detections.</p>															
Son0082	Switchvill	743	0	03/05/14	Town, Pam	8:00	9:00	<1 mph	Overcast	No Contact	No Contact		0		Walk-in
<p>Walked around historic AC and along road. No response. Salamander, CBCH, AMRO, BRGR, BTPI, HUMM, CORA.</p>															
Son0082	Switchvill	760	0	07/11/14	Town, Pam	10:11	11:15	1-3 mph	Partly Clo	No Contact	No Contact		0		Walk-in
<p>Walked along road near AC and surrounding area. No response.</p>															
Son0082	Switchvill	773	0	04/11/15	Town, Pam	18:00	19:00	<1 mph	Clear	No Contact	No Contact	11N 15W	26		Walk-in
<p>Walk around historic AC broadcast calling. No response. HUMM, DEJU, TUVU, NOFL, AMRO, CBCH, STJA, frogs.</p>															
Son0082	Switchvill	819	0	05/25/16	Town, Pam	13:10	14:15	4-7 mph	Clear	No Contact	No Contact		0		Walk-in
<p>Start near station 106 and walked along road in both directions (to gate and to corner near station 108) with no response. Walked into woods by historic AC. No response.</p>															
Son0082	Switchvill	840	0	05/27/17	Town, Pam	10:45	12:00	<1 mph	Fog	No Contact	No Contact		0		Walk-in
<p>Start at gate and broadcast calling up past station 108. Walk around the woods a bit near historic AC. No NSO, but Barred owl flew in. Visual and after about 5 minutes he vocalized. CORA and STJA mobbing Barred owl.</p>															
Son0082	Switchvill	852	0	03/11/18	Town, Pam	16:20	17:20	<1 mph	Partly Clo	No Contact	No Contact		0		Walk-in
<p>Start at water treatment and broadcast calling up to station 108. Silent barred owl flew in and vocalized when played barred owl vocalization. Near gate. No NSO.</p>															
Son0082	Switchvill	870	0	05/20/18	Town, Pam	18:30	19:30	1-3 mph	Clear	No Contact	No Contact		0		Walk-in
<p>Broadcast from water treatment plant and up past station 106, and back down. Barred owl by gate. Flew in silent.</p>															
Son0082	Switchvill	873	0	03/26/19	Town, Pam	13:45	14:50	1-3 mph	Partly Clo	No Contact	No Contact		0		Walk-in
<p>Start broadcast calling near gate and walk main road to bend in road before station 108. Near station 106 go off road to skid trails. No responses.</p>															
Son0082	Switchvill	920	0	04/12/20	Town, Pam	17:30	19:00	1-3 mph	Partly Clo	No Contact	No Contact		0		Walk-in
<p>Start at gate near water treatment plant. Broadcast up road past station 106 to station 108. Walk in woods on skid trail around historic SON0082 AC. As approaching gate silent owl flies in. Barred owl.</p>															
Son0082	Switchvill	925	0	05/18/20	Town, Pam	19:30	20:15	<1 mph	Overcast	No Contact	No Contact		0		Walk-in
<p>Walk around area broadcast calling. Closer to gate toward water treatment plant barred owl responded and flew to surveyor. No NSOs.</p>															
Son0082	Switchvill	962	0	05/17/21	Town, Pam	18:30	19:30	4-7 mph	Clear	No Contact	No Contact		0		Walk-in
<p>2 surveyors. One starts below water treatment and follows road broadcasting toward STA104. Barred owl flies in, silent at first, vocal when play BAOW calls. 2nd surveyor starts near STA108 and walks broadcasting toward STA104.</p>															
Son0082	Switchvill	974	0	04/15/22	Town, Pam	16:25	17:15	1-3 mph	Overcast	No Contact	No Contact		0		Walk-in
<p>Park near water treatment plant & broadcast & walk up road thru gate & beyond. Go into woods to historic AC and walk around area. Back to main road and near STA 106 see barred owl fly in and he was very vocal. He was mobbed by over 12 stellar jays (poor guy). Left barred and broadcast again when out of his hearing. No NSO.</p>															

<i>Center</i>	<i>Visit Sta.</i>	<i>Date</i>	<i>Surveyor</i>	<i>Start</i>	<i>End</i>	<i>Wind</i>	<i>Weather</i>	<i>Mouse Result</i>	<i>Occupancy</i>	<i>T</i>	<i>R</i>	<i>Sec</i>	<i>DBH</i>	<i>BA</i>	<i>Visit Type</i>
Son0082	Switchvill	997	0	05/17/23	Town, Pam	16:30	17:30	1-3 mph	Clear	No Contact	No Contact		0		Walk-in
<p>Start at gate by water treatment plant and walk up road. By AC walked into woods on skid trails. Walked back on road to road junction. At 17:12 mobbing Jays showed Barred Owl that followed surveyor. Jays relentless. No NSOs.</p>															

Data Version Date:
06/28/2023
Report Generation Date:
7/20/2023

Report #1 - Spotted Owl Sites Found
Known Spotted Owl sites having observations
within the search area.



Meridian, Township, Range, Section (MTRS) searched:

M_10N_14W Sections(05,06,07,08,18);

M_11N_15W Sections(24,25,26,27,34,35,36);

M_10N_15W Sections(01,02,03,12);

M_11N_14W Sections(30,31);

NOTES:

Note: Only SON00082 is within 0.7 miles of THP area.

<i>Masterowl</i>	<i>Subspecies</i>	<i>LatDD NAD83</i>	<i>LonDD NAD83</i>	<i>MTRS</i>	<i>AC Coordinate Source</i>
MEN0179	NORTHERN	38.789914	-123.504183	M 11N 15W 23	Contributor
MEN0412	NORTHERN	38.784737	-123.464537	M 11N 14W 19	Contributor
MEN0510	NORTHERN	38.798709	-123.480809	M 11N 15W 13	Contributor
SON0012	NORTHERN	38.744370	-123.434267	M 10N 14W 05	Contributor
SON0017	NORTHERN	38.768938	-123.476506	M 11N 14W 30	Contributor
SON0045	NORTHERN	38.758815	-123.462607	M 11N 14W 31	Contributor
SON0082	NORTHERN	38.771471	-123.505195	M 11N 15W 26	Contributor
SON0085	NORTHERN	38.726478	-123.430503	M 10N 14W 09	Contributor

Data Version Date:
06/28/2023

Report Generation Date:
7/20/2023

Report #2 - Observations Reported

List of observations reported by site.



Meridian, Township, Range, Section (MTRS) searched:

M_10N_14W Sections(05,06,07,08,18);

M_11N_15W Sections(24,25,26,27,34,35,36);

M_10N_15W Sections(01,02,03,12);

M_11N_14W Sections(30,31);

NOTES:

Note: Only SON00082 is within 0.7 miles of THP area.

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
Masterowl: MEND179 Subspecies: NORTHERN											
NEG	1990-04-16		0					38.786442	-123.506602	M 11N 15W 23	Section centroid
POS	1990-04-16		2	UMUF	Y			38.796858	-123.487652	M 11N 15W 13	Half-section centroid
POS	1990-06-01		2	UMUF	Y			38.789665	-123.492370	M 11N 15W 24	Quarter-section centroid
NEG	1990-06-17		0					38.786442	-123.506602	M 11N 15W 23	Section centroid
NEG	1990-07-07		0					38.786442	-123.506602	M 11N 15W 23	Section centroid
NEG	1990-07-19		0					38.786442	-123.506602	M 11N 15W 23	Section centroid
NEG	1991-01-25	0630	0					38.790188	-123.511441	M 11N 15W 23	Quarter-section centroid
NEG	1991-01-29	1800	0					38.790188	-123.511441	M 11N 15W 23	Quarter-section centroid
NEG	1991-01-31		0					38.786947	-123.492351	M 11N 15W 13	Quarter-section centroid
POS	1991-02-15	0700	1	UU				38.797150	-123.501841	M 11N 15W 14	Quarter-section centroid
NEG	1991-02-18	0800	0					38.786442	-123.506602	M 11N 15W 23	Section centroid
NEG	1991-02-22	0100	0					38.790188	-123.511441	M 11N 15W 23	Quarter-section centroid
NEG	1991-03-14	1830	0					38.786442	-123.506602	M 11N 15W 23	Section centroid
NEG	1991-04-10	1230	0					38.796947	-123.492351	M 11N 15W 13	Quarter-section centroid
POS	1991-04-22	0630	2	UUUU				38.789665	-123.492370	M 11N 15W 24	Quarter-section centroid
NEG	1991-05-15		0					38.784542	-123.504136	M 11N 15W 23	Activity center

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
POS	1991-05-22		2	UMUF	Y			38.789665	-123.492370	M 11N 15W 24	Quarter-section centroid
POS	1991-05-23		2	UMUF	Y	Y		38.792341	-123.496234	M 11N 15W 24	Contributor
POS	1991-05-29	1625	2	UMUF	Y	Y		38.792341	-123.496234	M 11N 15W 24	Contributor
POS	1991-06-01		2	UMUF	Y		1	38.789665	-123.492370	M 11N 15W 24	Quarter-section centroid
POS	1991-07-08	1722	1	UM	Y	Y	2	38.792341	-123.496234	M 11N 15W 24	Contributor
POS	1991-11-04	2044	1	UF				38.789665	-123.492370	M 11N 15W 24	Quarter-section centroid
POS	1991-11-10	1755	2	UMUF	Y			38.789665	-123.492370	M 11N 15W 24	Quarter-section centroid
POS	1992-03-13		1	UU				38.800879	-123.506508	M 11N 15W 14	Section centroid
POS	1992-05-08		2	UMUF	Y	N		38.789922	-123.501884	M 11N 15W 23	Quarter-section centroid
POS	1992-06-01		2	UMUF	Y			38.789665	-123.492370	M 11N 15W 24	Quarter-section centroid
POS	1992-06-04		2	UMUF	Y			38.790055	-123.506662	M 11N 15W 23	Half-section centroid
POS	1992-09-16		2	UMUF	Y	N		38.789665	-123.492370	M 11N 15W 24	Quarter-section centroid
POS	1993-03-08	2115	1	UU				38.782393	-123.492389	M 11N 15W 24	Quarter-section centroid
POS	1993-03-08		1	UU				38.782650	-123.501866	M 11N 15W 23	Quarter-section centroid
NEG	1993-03-22	2000	0					38.785883	-123.487583	M 11N 15W 24	Section centroid
POS	1993-04-08		1	UU				38.789665	-123.492370	M 11N 15W 24	Quarter-section centroid
POS	1993-04-28		1	UU				38.797150	-123.501841	M 11N 15W 14	Quarter-section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	1993-04-28		0					38.785883	-123.487589	M 11N 15W 24	Section centroid
NEG	1993-05-04		0					38.785883	-123.487589	M 11N 15W 24	Section centroid
NEG	1993-05-10		0					38.800499	-123.487642	M 11N 15W 13	Section centroid
NEG	1993-05-13		0					38.785883	-123.487589	M 11N 15W 24	Section centroid
NEG	1993-05-18		0					38.786442	-123.506602	M 11N 15W 23	Section centroid
POS	1993-06-01		2	UMUF	Y			38.789665	-123.492370	M 11N 15W 24	Quarter-section centroid
POS	1993-06-02		2	UMUF	Y			38.793715	-123.496482	M 11N 15W 13	Contributor
POS	1993-06-03	1200	2	UMUF				38.796947	-123.492351	M 11N 15W 13	Quarter-section centroid
NEG	1993-06-16		0					38.785883	-123.487589	M 11N 15W 24	Section centroid
POS	1993-07-22	1310	1	UM				38.789187	-123.492654	M 11N 15W 24	Contributor
POS	1993-11-13	1214	2	UMUF				38.789665	-123.492370	M 11N 15W 24	Quarter-section centroid
NEG	1994-03-22		0					38.800499	-123.487642	M 11N 15W 13	Section centroid
NEG	1994-03-24		0					38.785883	-123.487589	M 11N 15W 24	Section centroid
NEG	1994-03-30		0					38.785883	-123.487589	M 11N 15W 24	Section centroid
POS	1994-04-15		1	UU				38.796947	-123.492351	M 11N 15W 13	Quarter-section centroid
POS	1994-06-01	1158	2	UMUF	Y			38.786442	-123.506602	M 11N 15W 23	Section centroid
POS	1994-06-01		2	UMUF	Y			38.789665	-123.492370	M 11N 15W 24	Quarter-section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
POS	1994-11-22	1911	1	UM				38.786442	-123.506602	M 11N 15W 23	Section centroid
NEG	1995-04-02		0					38.800499	-123.487642	M 11N 15W 13	Section centroid
NEG	1995-04-23		0					38.786443	-123.506637	M 11N 15W 23	Section centroid
NEG	1995-04-24		0					38.786442	-123.506602	M 11N 15W 23	Section centroid
POS	1995-05-31	2142	1	UM				38.786442	-123.506602	M 11N 15W 23	Section centroid
POS	1995-06-01		2	UMUF	Y			38.789665	-123.492370	M 11N 15W 24	Quarter-section centroid
POS	1995-07-10		1	UU				38.789665	-123.492370	M 11N 15W 24	Quarter-section centroid
POS	1995-07-11		1	UU				38.789922	-123.501894	M 11N 15W 23	Quarter-section centroid
POS	1995-11-09	1849	2	UMUF	Y			38.789665	-123.492370	M 11N 15W 24	Quarter-section centroid
NEG	1996-03-07	2103	0					38.786442	-123.506602	M 11N 15W 23	Section centroid
POS	1996-03-17		1	UU				38.786947	-123.492351	M 11N 15W 13	Quarter-section centroid
POS	1996-03-18		1	UU				38.789665	-123.492370	M 11N 15W 24	Quarter-section centroid
POS	1996-04-05		2	UMUF	Y			38.789665	-123.492370	M 11N 15W 24	Quarter-section centroid
NEG	1996-04-07		0					38.785883	-123.487583	M 11N 15W 24	Section centroid
POS	1996-05-25		2	UMUF	Y			38.789665	-123.492370	M 11N 15W 24	Quarter-section centroid
POS	1996-06-01		2	UMUF	Y			38.789665	-123.492370	M 11N 15W 24	Quarter-section centroid
POS	1996-06-30		2	UMUF	Y			38.789665	-123.492370	M 11N 15W 24	Quarter-section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
PCS	1996-07-10		2	UMUF	Y			38.789665	-123.492370	M 11N 15W 24	Quarter-section centroid
PCS	1996-10-24		1	UU				38.789922	-123.501894	M 11N 15W 23	Quarter-section centroid
POS	1996-10-24	1426	1	UU				38.789922	-123.501894	M 11N 15W 23	Quarter-section centroid
POS	1997-02-24	0000	2	UMUF	Y			38.789665	-123.492370	M 11N 15W 24	Quarter-section centroid
NEG	1997-03-12		0					38.800499	-123.487642	M 11N 15W 13	Section centroid
NEG	1997-03-22		0					38.800499	-123.487642	M 11N 15W 13	Section centroid
POS	1997-04-15		2	UMUF	Y			38.789665	-123.492370	M 11N 15W 24	Quarter-section centroid
POS	1997-04-30	1325	2	UMUF	Y	Y		38.789665	-123.492370	M 11N 15W 24	Quarter-section centroid
POS	1997-05-27		2	UMUF	Y	Y	1	38.789665	-123.492370	M 11N 15W 24	Quarter-section centroid
POS	1997-06-01		2	UMUF	Y		1	38.789665	-123.492370	M 11N 15W 24	Quarter-section centroid
POS	1997-07-03		2	UMUF	Y		1	38.789665	-123.492370	M 11N 15W 24	Quarter-section centroid
POS	1997-07-15	1837	1	UF			1	38.789665	-123.492370	M 11N 15W 24	Quarter-section centroid
POS	1997-11-04	1904	1	UM				38.789665	-123.492370	M 11N 15W 24	Quarter-section centroid
POS	1998-03-03		1	UU				38.789665	-123.492370	M 11N 15W 24	Quarter-section centroid
POS	1998-04-24		2	UMUF	Y			38.789665	-123.492370	M 11N 15W 24	Quarter-section centroid
POS	1998-05-18		1	UU				38.789665	-123.492370	M 11N 15W 24	Quarter-section centroid
POS	1998-06-01		2	UMUF	Y			38.789665	-123.492370	M 11N 15W 24	Quarter-section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	1998-06-10	1200	0					38.785883	-123.487589	M 11N 15W 24	Section centroid
POS	1998-07-29		1	UM				38.789665	-123.492370	M 11N 15W 24	Quarter-section centroid
NEG	1998-08-13		0					38.785883	-123.487589	M 11N 15W 24	Section centroid
NEG	1998-08-13		0					38.788932	-123.473342	M 11N 14W 19	Quarter-section centroid
NEG	1998-08-20		0					38.784897	-123.466539	M 11N 14W 19	Section centroid
POS	1998-08-20		1	UF				38.789435	-123.482869	M 11N 15W 24	Quarter-section centroid
NEG	1998-08-21		0					38.785883	-123.487589	M 11N 15W 24	Section centroid
NEG	1998-08-27		0					38.785883	-123.487589	M 11N 15W 24	Section centroid
NEG	1998-08-27		0					38.784897	-123.466539	M 11N 14W 19	Section centroid
POS	1998-10-12		2	UMUF	Y			38.789665	-123.492370	M 11N 15W 24	Quarter-section centroid
POS	1998-10-21		1	UU				38.789665	-123.492370	M 11N 15W 24	Quarter-section centroid
POS	1998-10-21	1148	1	UU				38.784542	-123.504136	M 11N 15W 23	Activity center
NEG	1999-03-17	2028- 2038	0					38.783380	-123.516870	M 11N 15W 22	Contributor
NEG	1999-03-20	1719	0					38.785883	-123.487589	M 11N 15W 24	Section centroid
NEG	1999-03-29	2205- 2215	0					38.791161	-123.486695	M 11N 15W 24	Contributor
NEG	1999-04-12	2318- 2328	0					38.783380	-123.516870	M 11N 15W 22	Contributor
NEG	1999-04-23	0202- 0212	0					38.791290	-123.517890	M 11N 15W 22	Contributor

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	1999-04-24	0014-0024	0					38.783380	-123.516870	M 11N 15W 22	Contributor
NEG	1999-05-01	0025-0035	0					38.783380	-123.516870	M 11N 15W 22	Contributor
NEG	1999-05-13	2141-2151	0					38.791290	-123.517890	M 11N 15W 22	Contributor
NEG	1999-05-15	1400	0					38.785883	-123.487589	M 11N 15W 24	Section centroid
NEG	1999-05-20	0050-0100	0					38.783380	-123.516870	M 11N 15W 22	Contributor
NEG	1999-05-20	2321-2331	0					38.791290	-123.517890	M 11N 15W 22	Contributor
NEG	1999-05-22	1715	0					38.785883	-123.487589	M 11N 15W 24	Section centroid
POS	1999-05-22	0138	2	LMUF	Y			38.792341	-123.496234	M 11N 15W 24	Contributor
⁰¹⁵ NEG	1999-06-01	0007-0017	0					38.783380	-123.516870	M 11N 15W 22	Contributor
NEG	1999-06-02	1730	0					38.785883	-123.487589	M 11N 15W 24	Section centroid
NEG	1999-06-02	2216-2226	0					38.791290	-123.517890	M 11N 15W 22	Contributor
POS	1999-06-02	0123	1	UM				38.796947	-123.492351	M 11N 15W 13	Quarter-section centroid
POS	1999-06-03	0642	1	UU				38.797150	-123.501841	M 11N 15W 14	Quarter-section centroid
POS	1999-06-03	0739-0842	1	UU				38.790582	-123.498195	M 11N 15W 23	Contributor
NEG	1999-06-10	2240-2250	0					38.791290	-123.517890	M 11N 15W 22	Contributor
NEG	1999-06-17	2327-2337	0					38.791290	-123.517890	M 11N 15W 22	Contributor
NEG	2000-03-02	2303	0					38.786442	-123.506602	M 11N 15W 23	Section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	2000-03-03	2117- 2137	0					38.783380	-123.516870	M 11N 15W 22	Contributor
NEG	2000-03-03	2000	0					38.786442	-123.506602	M 11N 15W 23	Section centroid
NEG	2000-04-06	2352- 0002	0					38.783380	-123.516870	M 11N 15W 22	Contributor
NEG	2000-04-09	2105	0					38.790462	-123.520828	M 11N 15W 22	Quarter-section centroid
NEG	2000-04-15	1050	0					38.786442	-123.506602	M 11N 15W 23	Section centroid
NEG	2000-04-19	2023	0					38.800879	-123.506508	M 11N 15W 14	Section centroid
POS	2000-04-26	2144	1	UM				38.791290	-123.517890	M 11N 15W 22	Contributor
POS	2000-04-28	2310	1	UM				38.797150	-123.501841	M 11N 15W 14	Quarter-section centroid
NEG	2000-05-09	2105- 2115	0					38.791290	-123.517890	M 11N 15W 22	Contributor
NEG	2000-06-04	2347- 2357	0					38.783380	-123.516870	M 11N 15W 22	Contributor
POS	2000-06-04	2236	1	UM				38.797150	-123.501841	M 11N 15W 14	Quarter-section centroid
POS	2000-06-06	0845	1	UM				38.789922	-123.501894	M 11N 15W 23	Quarter-section centroid
NEG	2000-06-28	2138- 2148	0					38.791290	-123.517890	M 11N 15W 22	Contributor
POS	2001-03-10	2223	1	UF				38.793119	-123.499775	M 11N 15W 23	Contributor
POS	2001-03-10	2240	1	UU				38.797150	-123.501841	M 11N 15W 14	Quarter-section centroid
POS	2001-03-10	2223	1	UF				38.797150	-123.501841	M 11N 15W 14	Quarter-section centroid
NEG	2001-03-12	1941	0					38.785883	-123.487589	M 11N 15W 24	Section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	2001-03-14	1955- 2005	0					38.791290	-123.517890	M 11N 15W 22	Contributor
NEG	2001-03-18	1940- 1950	0					38.783380	-123.516870	M 11N 15W 22	Contributor
POS	2001-05-05	1400	2	UMUF	Y			38.792234	-123.496210	M 11N 15W 24	Contributor
NEG	2001-05-24	2313- 2323	0					38.783380	-123.516870	M 11N 15W 22	Contributor
POS	2001-05-25	0050	1	UM				38.797150	-123.501841	M 11N 15W 14	Quarter-section centroid
NEG	2001-06-13	2121	0					38.800499	-123.487642	M 11N 15W 13	Section centroid
NEG	2001-06-14	2205- 2215	0					38.783380	-123.516870	M 11N 15W 22	Contributor
NEG	2001-06-14	2103- 2113	0					38.791290	-123.517890	M 11N 15W 22	Contributor
NEG	2001-06-29	2331- 2341	0					38.791290	-123.517890	M 11N 15W 22	Contributor
NEG	2002-03-04	2345- 2355	0					38.783380	-123.516870	M 11N 15W 22	Contributor
NEG	2002-03-06	2115	0					38.800499	-123.487642	M 11N 15W 13	Section centroid
NEG	2002-03-12	2326- 2336	0					38.791290	-123.517890	M 11N 15W 22	Contributor
NEG	2002-04-09	2325- 2335	0					38.791290	-123.517890	M 11N 15W 22	Contributor
POS	2002-04-11	1430	2	UMLF	Y			38.795955	-123.488514	M 11N 15W 13	Contributor
NEG	2002-04-20	0129- 0139	0					38.783380	-123.516870	M 11N 15W 22	Contributor
NEG	2002-04-21	0058- 0108	0					38.791290	-123.517890	M 11N 15W 22	Contributor
POS	2002-04-21	2357	2	UMUF	Y			38.790299	-123.509950	M 11N 15W 23	Contributor

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
POS	2002-04-22	1708	2	UMUF	Y			38.789914	-123.504183	M 11N 15W 23	Contributor
NEG	2002-04-30	0133- 0143	0					38.783380	-123.516870	M 11N 15W 22	Contributor
AC	2002-05-02	1728- 1732	2	UMUF	Y	Y		38.789914	-123.504183	M 11N 15W 23	Contributor
POS	2003		1	UU		Y		38.789859	-123.504173	M 11N 15W 23	Contributor
POS	2003-03-06	0044	1	UM				38.783990	-123.509120	M 11N 15W 23	Contributor
NEG	2003-03-07	2021- 2031	0					38.791290	-123.517890	M 11N 15W 22	Contributor
NEG	2003-03-07	2156- 2206	0					38.783380	-123.516870	M 11N 15W 22	Contributor
POS	2003-03-30	1505- 1520	2	UMUF	Y			38.789914	-123.504183	M 11N 15W 23	Contributor
NEG	2003-04-02	1931- 1941	0					38.791290	-123.517890	M 11N 15W 22	Contributor
NEG	2003-04-02	2033- 2043	0					38.783990	-123.509120	M 11N 15W 23	Contributor
NEG	2003-04-14	0003- 0013	0					38.783380	-123.516870	M 11N 15W 22	Contributor
NEG	2003-04-30	0118- 0128	0					38.783990	-123.509120	M 11N 15W 23	Contributor
NEG	2003-04-30	0040- 0050	0					38.783380	-123.516870	M 11N 15W 22	Contributor
NEG	2003-04-30	0159- 0209	0					38.791290	-123.517890	M 11N 15W 22	Contributor
NEG	2004-03-11	2302- 2312	0					38.791290	-123.517890	M 11N 15W 22	Contributor
NEG	2004-03-11	2343- 2353	0					38.783990	-123.509120	M 11N 15W 23	Contributor
POS	2004-03-19	1729- 1745	2	UMUF	Y			38.789673	-123.507622	M 11N 15W 23	Contributor

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	2004-04-07	0015-0025	0					38.783990	-123.509120	M 11N 15W 23	Contributor
NEG	2004-04-15	0119-0129	0					38.791290	-123.517890	M 11N 15W 22	Contributor
NEG	2004-06-14	0142-0152	0					38.783990	-123.509120	M 11N 15W 23	Contributor
NEG	2004-06-15	0134-0144	0					38.791290	-123.517890	M 11N 15W 22	Contributor
NEG	2005-04-21	2212-2222	0					38.791290	-123.517890	M 11N 15W 22	Contributor
NEG	2005-04-21	0121-0131	0					38.783990	-123.509120	M 11N 15W 23	Contributor
NEG	2005-05-10	2220-2230	0					38.783990	-123.509120	M 11N 15W 23	Contributor
NEG	2005-06-09	2242-2252	0					38.783380	-123.516870	M 11N 15W 22	Contributor
NEG	2005-06-23	2148-2158	0					38.791290	-123.517890	M 11N 15W 22	Contributor
NEG	2005-06-25	2157-2207	0					38.783380	-123.516870	M 11N 15W 22	Contributor
NEG	2005-07-20	2107-2117	0					38.791290	-123.517890	M 11N 15W 22	Contributor
NEG	2005-07-26	2128-2148	0					38.783990	-123.509120	M 11N 15W 23	Contributor
NEG	2005-07-27	2132-2142	0					38.783380	-123.516870	M 11N 15W 22	Contributor
NEG	2006-04-13	0259-0309	0					38.791290	-123.517890	M 11N 15W 22	Contributor
NEG	2006-04-25	0301-0311	0					38.783380	-123.516870	M 11N 15W 22	Contributor
NEG	2006-04-25	0035-0045	0					38.783990	-123.509120	M 11N 15W 23	Contributor
NEG	2006-04-25	0118-0128	0					38.791290	-123.517890	M 11N 15W 22	Contributor

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	2006-05-25	2350-0000	0					38.783380	-123.516870	M 11N 15W 22	Contributor
NEG	2006-05-25	2153-2203	0					38.783990	-123.509120	M 11N 15W 23	Contributor
NEG	2006-06-02	2314-2324	0					38.791290	-123.517890	M 11N 15W 22	Contributor
NEG	2006-06-02	2232-2242	0					38.783990	-123.509120	M 11N 15W 23	Contributor
NEG	2006-06-03	2201-2211	0					38.783380	-123.516870	M 11N 15W 22	Contributor
NEG	2007-03-28	2022-2032	0					38.791290	-123.517890	M 11N 15W 22	Contributor
NEG	2007-03-28	1928-1938	0					38.783990	-123.509120	M 11N 15W 23	Contributor
POS	2007-03-28	1904	1	UU				38.782650	-123.501866	M 11N 15W 23	Quarter-section centroid
NEG	2007-03-29	2054-2104	0					38.783380	-123.516870	M 11N 15W 22	Contributor
NEG	2007-04-05	2338-2348	0					38.791290	-123.517890	M 11N 15W 22	Contributor
POS	2007-04-06	1804	2	UMUF	Y			38.784542	-123.504136	M 11N 15W 23	Contributor
NEG	2007-04-07	0127-0137	0					38.783990	-123.509120	M 11N 15W 23	Contributor
NEG	2007-04-25		0					38.783990	-123.509120	M 11N 15W 23	Contributor
NEG	2007-04-25	2146-2156	0					38.791290	-123.517890	M 11N 15W 22	Contributor
NEG	2008-05-17	2125	0					38.789922	-123.501894	M 11N 15W 23	Quarter-section centroid
NEG	2009-04-06	2038	0					38.789922	-123.501894	M 11N 15W 23	Quarter-section centroid
NEG	2009-04-13	2015	0					38.789922	-123.501894	M 11N 15W 23	Quarter-section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	2011	2400	0					38.783380	-123.516870	M 11N 15W 22	Contributor
NEG	2011	2400	3					38.794570	-123.517684	M 11N 15W 15	Contributor
NEG	2011-03-04	2241- 2251	0					38.793119	-123.499775	M 11N 15W 23	Contributor
POS	2011-03-06	2047- 2100	1	UM				38.786171	-123.508792	M 11N 15W 23	Contributor
POS	2011-04-01	2203- 2213	1	UM				38.786171	-123.508792	M 11N 15W 23	Contributor
NEG	2011-05-12	2059- 2109	0					38.793119	-123.499775	M 11N 15W 23	Contributor
NEG	2012	2400	0					38.793119	-123.499775	M 11N 15W 23	Contributor
NEG	2012	2400	0					38.797460	-123.512839	M 11N 15W 14	Contributor
³ NEG	2012	2400	0					38.786171	-123.508792	M 11N 15W 23	Contributor
NEG	2012	2400	0					38.784782	-123.493778	M 11N 15W 24	Contributor
NEG	2012	2400	0					38.789150	-123.491524	M 11N 15W 24	Contributor
NEG	2012	2400	0					38.794570	-123.517684	M 11N 15W 15	Contributor
NEG	2012	2400	0					38.783380	-123.516870	M 11N 15W 22	Contributor
NEG	2012	2400	0					38.790299	-123.509950	M 11N 15W 23	Contributor
NEG	2013	2400	0					38.790299	-123.509950	M 11N 15W 23	Contributor
NEG	2013	2400	0					38.784782	-123.493778	M 11N 15W 24	Contributor
NEG	2013	2400	0					38.789150	-123.491524	M 11N 15W 24	Contributor

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	2013	2400	0					38.797460	-123.512839	M 11N 15W 14	Contributor
NEG	2013	2400	0					38.793119	-123.499775	M 11N 15W 23	Contributor
NEG	2013	2400	0					38.783380	-123.516870	M 11N 15W 22	Contributor
NEG	2013	2400	0					38.794570	-123.517684	M 11N 15W 15	Contributor
NEG	2013	2400	0					38.786171	-123.508792	M 11N 15W 23	Contributor
NEG	2014		0					38.789914	-123.504183	M 11N 15W 23	Activity center
Masterowl: MEN0412 Subspecies: NORTHERN											
POS	1994-05-19		2	UMUF				38.789160	-123.454543	M 11N 14W 20	Contributor
NEG	1994-06-04		0					38.784113	-123.450136	M 11N 14W 20	Section centroid
POS	1995-03-30		1	UU				38.788133	-123.463770	M 11N 14W 19	Quarter-section centroid
NEG	1995-03-30		0					38.798058	-123.432029	M 11N 14W 16	Section centroid
NEG	1995-03-31	1200	0					38.784897	-123.468539	M 11N 14W 19	Section centroid
NEG	1996-03-07		0					38.798675	-123.450331	M 11N 14W 17	Section centroid
NEG	1996-04-04		0					38.798675	-123.450331	M 11N 14W 17	Section centroid
NEG	1996-04-05		0					38.798675	-123.450331	M 11N 14W 17	Section centroid
NEG	1996-04-25		0					38.787691	-123.454556	M 11N 14W 20	Quarter-section centroid
NEG	1996-05-04		0					38.787691	-123.454556	M 11N 14W 20	Quarter-section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	1998-03-14		0					38.784113	-123.450136	M 11N 14W 20	Section centroid
NEG	1998-03-20		0					38.784113	-123.450136	M 11N 14W 20	Section centroid
NEG	1998-04-15		0					38.784113	-123.450136	M 11N 14W 20	Section centroid
NEG	1998-05-15		0					38.784113	-123.450136	M 11N 14W 20	Section centroid
NEG	1998-06-10		0					38.784113	-123.450136	M 11N 14W 20	Section centroid
NEG	1998-07-13		0					38.784113	-123.450136	M 11N 14W 20	Section centroid
NEG	1998-07-20		0					38.784113	-123.450136	M 11N 14W 20	Section centroid
NEG	1998-08-20		0					38.784897	-123.468539	M 11N 14W 19	Section centroid
NEG	1998-08-27		0					38.784897	-123.468539	M 11N 14W 19	Section centroid
NEG	1999	2400	0					38.782168	-123.446744	M 11N 14W 20	Contributor
NEG	1999	2400	0					38.788976	-123.449231	M 11N 14W 20	Contributor
NEG	1999-03-29	2330- 2340	0					38.782168	-123.446744	M 11N 14W 20	Contributor
NEG	2000	2400	0					38.788976	-123.449231	M 11N 14W 20	Contributor
NEG	2000-03-13	2013- 2023	0					38.782168	-123.446744	M 11N 14W 20	Contributor
NEG	2000-03-21	2051- 2101	0					38.782168	-123.446744	M 11N 14W 20	Contributor
NEG	2000-03-29	2131- 2141	0					38.782168	-123.446744	M 11N 14W 20	Contributor
POS	2000-03-29	2102	1	UU				38.782168	-123.446744	M 11N 14W 20	Contributor

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	2000-03-30	2021	0					38.784897	-123.468539	M 11N 14W 19	Section centroid
NEG	2000-06-06	0959- 1046	0					38.780545	-123.454511	M 11N 14W 20	Quarter-section centroid
NEG	2000-06-07	1300	0					38.784113	-123.450136	M 11N 14W 20	Section centroid
NEG	2000-06-07	1300- 1412	0					38.780616	-123.445601	M 11N 14W 20	Quarter-section centroid
NEG	2001-03-12	2225	0					38.784897	-123.468539	M 11N 14W 19	Section centroid
POS	2001-03-12	2058	1	UM				38.788133	-123.463770	M 11N 14W 19	Quarter-section centroid
POS	2001-05-29	2043	1	UM				38.777813	-123.462679	M 11N 14W 19	Contributor
POS	2001-05-30	1003	2	AMAF	Y	Y	2	38.773088	-123.462614	M 11N 14W 30	Contributor
POS	2002-04-22	2255	1	UM				38.777813	-123.462679	M 11N 14W 19	Contributor
POS	2002-05-01	1904- 1911	2	UMUF	Y	Y		38.783059	-123.458450	M 11N 14W 20	Contributor
POS	2003-03-07	1626- 1655	2	UMUF	Y			38.783202	-123.457268	M 11N 14W 20	Contributor
POS	2003-03-31	2150	1	UF				38.777813	-123.462679	M 11N 14W 19	Contributor
NEG	2003-05-13	1405- 1555	0					38.784506	-123.463746	M 11N 14W 19	Half-section centroid
POS	2003-05-14	1828- 1907	2	UMUF	Y			38.776396	-123.461019	M 11N 14W 30	Contributor
NEG	2003-06-25	1655- 1830	0					38.784121	-123.454536	M 11N 14W 20	Half-section centroid
POS	2003-06-30	2044	1	UF		N	1	38.785754	-123.450513	M 11N 14W 20	Contributor
POS	2003-07-01	1849- 1935	1	UF		N	1	38.783597	-123.457908	M 11N 14W 20	Contributor

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
POS	2003-07-01	2209	1	UU				38.780379	-123.440392	M 11N 14W 21	Contributor
POS	2003-07-21	2141	1	UU				38.785281	-123.461906	M 11N 14W 19	Contributor
POS	2004-04-30	1525	2	UMUF	Y	Y		38.784737	-123.464537	M 11N 14W 19	Contributor
AC	2005		1	AU		Y	2	38.784737	-123.464537	M 11N 14W 19	Contributor
POS	2006		2	UMUF	Y			38.783202	-123.457268	M 11N 14W 20	Contributor
NEG	2007		0					38.784737	-123.464537	M 11N 14W 19	Activity center
POS	2009-04-11	2203	2	AMAF	Y			38.780545	-123.454511	M 11N 14W 20	Quarter-section centroid
POS	2009-04-16	2147	2	AMAF	Y			38.780545	-123.454511	M 11N 14W 20	Quarter-section centroid
POS	2009-05-19	2255	2	AMAF	Y			38.783113	-123.456980	M 11N 14W 20	Contributor
POS	2011-03-06	1800- 1815	2	UMUF	Y			38.784068	-123.470546	M 11N 14W 19	Contributor
NEG	2011-03-06	1839- 1849	0					38.777813	-123.462679	M 11N 14W 19	Contributor
NEG	2011-03-06	1821- 1831	0					38.778717	-123.467618	M 11N 14W 19	Contributor
NEG	2011-04-03	1600- 1730	0					38.773615	-123.463826	M 11N 14W 30	Quarter-section centroid
POS	2011-04-03	1800- 1810	2	UMUF	Y			38.784068	-123.470546	M 11N 14W 19	Contributor
NEG	2011-05-12	2310- 2320	0					38.778717	-123.467618	M 11N 14W 19	Contributor
NEG	2011-05-12	2325- 2335	0					38.777813	-123.462679	M 11N 14W 19	Contributor
NEG	2012	2400	0					38.791490	-123.470585	M 11N 14W 19	Contributor

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	2012	2400	0					38.778717	-123.467618	M 11N 14W 19	Contributor
NEG	2012-03-07	1949- 1959	0					38.784068	-123.470546	M 11N 14W 19	Contributor
NEG	2012-03-25	2339- 2349	0					38.784068	-123.470546	M 11N 14W 19	Contributor
NEG	2012-04-01	2213- 2223	0					38.784068	-123.470546	M 11N 14W 19	Contributor
NEG	2012-04-27	2318- 2328	0					38.784068	-123.470546	M 11N 14W 19	Contributor
NEG	2012-05-04	0021- 0031	0					38.784068	-123.470546	M 11N 14W 19	Contributor
POS	2012-07-02	2129- 2139	1	UU				38.784068	-123.470546	M 11N 14W 19	Contributor
NEG	2013	2400	0					38.778717	-123.467618	M 11N 14W 19	Contributor
^{U2} POS	2013-03-08	2059- 2109	1	UM				38.784068	-123.470546	M 11N 14W 19	Contributor
POS	2013-04-19	2235- 2245	1	UM				38.784068	-123.470546	M 11N 14W 19	Contributor
NEG	2013-04-19	2249- 2259	0					38.791490	-123.470585	M 11N 14W 19	Contributor
NEG	2013-04-27	0206- 0216	0					38.791490	-123.470585	M 11N 14W 19	Contributor
POS	2013-07-32	2400	1	LU				38.784737	-123.464537	M 11N 14W 19	Activity center
NEG	2013-07-06	0228- 0238	0					38.784068	-123.470546	M 11N 14W 19	Contributor
POS	2015		1	UL				38.784737	-123.464537	M 11N 14W 19	Activity center
Masterowl: MEN0510 Subspecies: NORTHERN											
POS	1990-05-03	2152	1	UF				38.804149	-123.483060	M 11N 15W 13	Quarter-section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
POS	1990-06-01		1	UU				38.796779	-123.482953	M 11N 15W 13	Quarter-section centroid
NEG	1995-04-24		0					38.800499	-123.487642	M 11N 15W 13	Section centroid
POS	1996-03-17		1	UU				38.804149	-123.483060	M 11N 15W 13	Quarter-section centroid
POS	1996-03-24		1	UU				38.799146	-123.481322	M 11N 15W 13	Contributor
POS	1996-03-25		2	UMUF	Y			38.799146	-123.481322	M 11N 15W 13	Contributor
POS	1996-04-05		2	UMUF	Y			38.799146	-123.481322	M 11N 15W 13	Contributor
POS	1996-06-06		2	UMUF	Y			38.796779	-123.482953	M 11N 15W 13	Quarter-section centroid
NEG	1997-05-19		0					38.800499	-123.487642	M 11N 15W 13	Section centroid
¹³ NEG	1997-05-27		0					38.800499	-123.487642	M 11N 15W 13	Section centroid
NEG	1997-07-29		0					38.800499	-123.487642	M 11N 15W 13	Section centroid
NEG	1998-04-24		0					38.799693	-123.468785	M 11N 14W 18	Section centroid
POS	1998-04-24		1	UU				38.796779	-123.482953	M 11N 15W 13	Quarter-section centroid
NEG	1998-04-25		0					38.800499	-123.487642	M 11N 15W 13	Section centroid
NEG	1998-05-05		0					38.800499	-123.487642	M 11N 15W 13	Section centroid
NEG	1998-05-18		0					38.800499	-123.487642	M 11N 15W 13	Section centroid
POS	1998-06-01		1	UU				38.796779	-123.482953	M 11N 15W 13	Quarter-section centroid
NEG	1998-07-29		0					38.800499	-123.487642	M 11N 15W 13	Section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	1998-08-13		0					38.800499	-123.487642	M 11N 15W 13	Section centroid
NEG	1998-08-13		0					38.799693	-123.468785	M 11N 14W 18	Section centroid
NEG	1998-08-20		0					38.799693	-123.468785	M 11N 14W 18	Section centroid
NEG	1998-08-20		0					38.800699	-123.487242	M 11N 15W 13	Section centroid
NEG	1998-08-27		0					38.800699	-123.487242	M 11N 15W 13	Section centroid
NEG	1998-08-27		0					38.799693	-123.468785	M 11N 14W 18	Section centroid
NEG	1999-03-29	2009- 2019	0					38.803014	-123.474921	M 11N 14W 18	Contributor
NEG	1999-05-22	1600	0					38.800499	-123.487642	M 11N 15W 13	Section centroid
NEG	1999-06-17	1600	0					38.800499	-123.487642	M 11N 15W 13	Section centroid
POS	2000-06-27	2334	1	JU				38.796779	-123.482953	M 11N 15W 13	Quarter-section centroid
NEG	2002-03-06	2137	0					38.800499	-123.487642	M 11N 15W 13	Section centroid
POS	2002-04-10	2142	1	UF				38.791161	-123.486695	M 11N 15W 24	Contributor
POS	2002-04-10	2201	1	UM				38.800318	-123.483186	M 11N 15W 13	Contributor
NEG	2002-04-11	1430	0					38.796779	-123.482953	M 11N 15W 13	Quarter-section centroid
AC	2002-05-14	1530	2	UMUF	Y			38.798709	-123.480809	M 11N 15W 13	Contributor
POS	2002-05-15	1300	1	UM				38.804149	-123.463060	M 11N 15W 13	Quarter-section centroid
POS	2002-05-15	1300	1	UM				38.800465	-123.483006	M 11N 15W 13	Half-section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	2003-04-10	1725- 1925	0					38.796779	-123.482953	M 11N 15W 13	Quarter-section centroid
NEG	2003-05-15	1705	0					38.796779	-123.482953	M 11N 15W 13	Quarter-section centroid
NEG	2003-06-10	1800- 2020	0					38.796779	-123.482953	M 11N 15W 13	Quarter-section centroid
NEG	2006		0					38.798709	-123.480809	M 11N 15W 13	Activity center
NEG	2011-03-04	2227- 2237	0					38.803014	-123.474921	M 11N 14W 18	Contributor
NEG	2011-03-04	2213- 2223	0					38.803358	-123.486652	M 11N 15W 13	Contributor
NEG	2011-04-01	2230- 2240	0					38.803358	-123.486652	M 11N 15W 13	Contributor
NEG	2011-04-03	1859- 1909	0					38.803014	-123.474921	M 11N 14W 18	Contributor
POS	2011-05-12	1615- 1630	2	UMUF	Y			38.800499	-123.487642	M 11N 15W 13	Section centroid
NEG	2012	2400	0					38.791161	-123.486695	M 11N 15W 24	Contributor
NEG	2012	2400	0					38.798537	-123.470552	M 11N 14W 18	Contributor
NEG	2012	2400	0					38.800699	-123.487242	M 11N 15W 13	Contributor
NEG	2012	2400	0					38.791490	-123.470585	M 11N 14W 19	Contributor
NEG	2012	2400	0					38.790009	-123.478609	M 11N 15W 24	Contributor
POS	2012-03-10	1700- 1830	2	UMUF	Y			38.800499	-123.487642	M 11N 15W 13	Section centroid
NEG	2012-03-25	1915- 1940	0					38.800318	-123.483186	M 11N 15W 13	Contributor
POS	2012-04-27	1815- 1915	2	UMUF	Y			38.800499	-123.487642	M 11N 15W 13	Section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	2013	2400	0					38.798537	-123.470552	M 11N 14W 18	Contributor
NEG	2013	2400	0					38.791161	-123.486895	M 11N 15W 24	Contributor
NEG	2013-03-08	1936- 1946	0					38.790009	-123.478609	M 11N 15W 24	Contributor
POS	2013-03-08	1715- 1718	2	UMUF	Y			38.800318	-123.483186	M 11N 15W 13	Contributor
POS	2013-03-08	1915- 1925	1	LU				38.791490	-123.470585	M 11N 14W 19	Contributor
NEG	2013-04-19	2327- 2337	0					38.790009	-123.478609	M 11N 15W 24	Contributor
NEG	2013-04-19	2249- 2259	0					38.791490	-123.470585	M 11N 14W 19	Contributor
NEG	2013-04-27	0206- 0216	0					38.791490	-123.470585	M 11N 14W 19	Contributor
^{Yes} POS	2013-04-27	0245- 0255	1	UU				38.790009	-123.478609	M 11N 15W 24	Contributor
NEG	2013-05-26	0204- 0214	0					38.790009	-123.478609	M 11N 15W 24	Contributor
NEG	2013-06-03	0223- 0236	0					38.790009	-123.478609	M 11N 15W 24	Contributor
NEG	2013-07-06	0309- 0319	0					38.790009	-123.478609	M 11N 15W 24	Contributor
POS	2013-07-10	0830- 0945	2	UMUF	Y			38.799693	-123.468785	M 11N 14W 18	Section centroid
POS	2014		2	UMUF	Y			38.798709	-123.480809	M 11N 15W 13	Activity center
Masterowl: SON0012 Subspecies: NORTHERN											
POS	1990-01-05		2	UMUF				38.744970	-123.456334	M 10N 14W 06	Quarter-section centroid
POS	1990-07-06	2245	1	UM				38.744500	-123.427863	M 10N 14W 04	Quarter-section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	1991-04-17		0					38.744506	-123.418727	M 10N 14W 04	Quarter-section centroid
NEG	1991-04-23		0					38.751755	-123.427688	M 11N 14W 33	Quarter-section centroid
POS	1991-05-10		2	UMUF	Y			38.744566	-123.437092	M 10N 14W 05	Quarter-section centroid
PCS	1991-05-22	1827	2	UMUF	Y	Y		38.744566	-123.437092	M 10N 14W 05	Quarter-section centroid
NEG	1992-05-31		0					38.744566	-123.437092	M 10N 14W 05	Quarter-section centroid
NEG	1992-07-09		0					38.740790	-123.441775	M 10N 14W 05	Section centroid
POS	1993-05-10		2	UMUF	Y			38.746088	-123.428875	M 10N 14W 04	Contributor
POS	1993-05-10		1	UM				38.744444	-123.435849	M 10N 14W 05	Contributor
³ POS	1993-06-03		1	UU				38.744566	-123.437092	M 10N 14W 05	Quarter-section centroid
POS	1993-06-03		1	UU				38.744566	-123.437092	M 10N 14W 05	Quarter-section centroid
POS	1993-06-09		1	UU				38.744500	-123.427863	M 10N 14W 04	Quarter-section centroid
POS	1993-06-23		2	UMUF	Y	Y	1	38.746256	-123.433328	M 10N 14W 05	Contributor
NEG	1993-07-07		0					38.740790	-123.441775	M 10N 14W 05	Section centroid
POS	1993-07-28		1	UU				38.744500	-123.427863	M 10N 14W 04	Quarter-section centroid
NEG	1994-04-14		0					38.740790	-123.441775	M 10N 14W 05	Section centroid
POS	1994-05-03		2	UMUF	Y			38.744566	-123.437092	M 10N 14W 05	Quarter-section centroid
NEG	1994-06-09		0					38.740832	-123.423170	M 10N 14W 04	Section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	1995-04-03		0					38.740790	-123.441775	M 10N 14W 05	Section centroid
POS	1995-06-29		1	UU				38.744500	-123.427863	M 10N 14W 04	Quarter-section centroid
POS	1995-07-04		1	UU				38.744500	-123.427863	M 10N 14W 04	Quarter-section centroid
POS	1995-07-20		2	UMUF	Y			38.744500	-123.427863	M 10N 14W 04	Quarter-section centroid
NEG	1996-03-02		0					38.740832	-123.423170	M 10N 14W 04	Section centroid
NEG	1996-03-03	2030	0					38.744566	-123.437092	M 10N 14W 05	Quarter-section centroid
NEG	1996-03-06	1236	0					38.744566	-123.437092	M 10N 14W 05	Quarter-section centroid
NEG	1996-03-12	2013	0					38.740790	-123.441775	M 10N 14W 05	Section centroid
NEG	1996-03-15		0					38.740790	-123.441775	M 10N 14W 05	Section centroid
POS	1996-03-17		1	UU				38.744566	-123.437092	M 10N 14W 05	Quarter-section centroid
POS	1996-03-24		1	UU				38.744566	-123.437092	M 10N 14W 05	Quarter-section centroid
POS	1996-03-25		1	UU				38.744566	-123.437092	M 10N 14W 05	Quarter-section centroid
NEG	1996-04-11		0					38.740790	-123.441775	M 10N 14W 05	Section centroid
POS	1996-04-14		2	UMUF	Y			38.744500	-123.427863	M 10N 14W 04	Quarter-section centroid
NEG	1996-05-12		0					38.740832	-123.423170	M 10N 14W 04	Section centroid
NEG	1996-06-27		0					38.740790	-123.441775	M 10N 14W 05	Section centroid
NEG	1997-03-11		0					38.755504	-123.432555	M 11N 14W 33	Section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	1997-03-17		0					38.740790	-123.441775	M 10N 14W 05	Section centroid
NEG	1997-03-19		0					38.740790	-123.441775	M 10N 14W 05	Section centroid
NEG	1997-03-21		0					38.755689	-123.450498	M 11N 14W 32	Section centroid
NEG	1997-03-24		0					38.740790	-123.441775	M 10N 14W 05	Section centroid
NEG	1997-03-25		0					38.740790	-123.441775	M 10N 14W 05	Section centroid
NEG	1997-04-07		0					38.740790	-123.441775	M 10N 14W 05	Section centroid
NEG	1997-04-14	0000	0					38.740790	-123.441775	M 10N 14W 05	Section centroid
NEG	1997-04-20		0					38.740832	-123.423170	M 10N 14W 04	Section centroid
NEG	1997-06-04		0					38.741327	-123.461604	M 10N 14W 06	Section centroid
NEG	1997-06-08		0					38.740832	-123.423170	M 10N 14W 04	Section centroid
NEG	1998-04-29		0					38.740790	-123.441775	M 10N 14W 05	Section centroid
NEG	1998-06-09		0					38.740832	-123.423170	M 10N 14W 04	Section centroid
NEG	1998-06-18		0					38.740832	-123.423170	M 10N 14W 04	Section centroid
POS	1998-08-25		1	UU				38.744719	-123.446503	M 10N 14W 05	Quarter-section centroid
NEG	1998-08-31		0					38.740790	-123.441775	M 10N 14W 05	Section centroid
NEG	1999-03-15	2348	0					38.741327	-123.461604	M 10N 14W 06	Section centroid
NEG	1999-03-16	2352	0					38.740790	-123.441775	M 10N 14W 05	Section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	1999-03-20	2150	0					38.741327	-123.461604	M 10N 14W 06	Section centroid
NEG	1999-03-27	2137	0					38.741327	-123.461604	M 10N 14W 06	Section centroid
NEG	1999-04-05	1906	0					38.741327	-123.461604	M 10N 14W 06	Section centroid
NEG	1999-04-08	0051	0					38.741327	-123.461604	M 10N 14W 06	Section centroid
NEG	1999-04-14	2348	0					38.741327	-123.461604	M 10N 14W 06	Section centroid
POS	1999-04-15	1824- 1855	2	UMUF	Y			38.744286	-123.436860	M 10N 14W 05	Contributor
NEG	1999-04-21	2210	0					38.740790	-123.441775	M 10N 14W 05	Section centroid
NEG	1999-04-22	1958	0					38.740790	-123.441775	M 10N 14W 05	Section centroid
NEG	1999-04-28	1936	0					38.740832	-123.423170	M 10N 14W 04	Section centroid
NEG	1999-04-29	2159	0					38.741327	-123.461604	M 10N 14W 06	Section centroid
NEG	1999-05-23	2311	0					38.741327	-123.461604	M 10N 14W 05	Section centroid
NEG	1999-06-03	2015	0					38.740790	-123.441775	M 10N 14W 05	Section centroid
NEG	1999-06-11	2238	0					38.741327	-123.461604	M 10N 14W 06	Section centroid
NEG	1999-06-17	0039	0					38.741327	-123.461604	M 10N 14W 06	Section centroid
POS	2000-03-15	2230	1	UM				38.740790	-123.441775	M 10N 14W 05	Section centroid
NEG	2000-03-16	1100	0					38.740832	-123.423170	M 10N 14W 04	Section centroid
POS	2000-03-21	2145	1	LU				38.744719	-123.446506	M 10N 14W 05	Quarter-section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	2000-03-22	1700	0					38.740790	-123.441775	M 10N 14W 05	Section centroid
POS	2000-03-29	2019	1	UM				38.737185	-123.446643	M 10N 14W 05	Quarter-section centroid
POS	2000-03-30	2249	1	UM				38.744500	-123.427863	M 10N 14W 04	Quarter-section centroid
PCS	2000-03-31	0630	1	UM				38.742890	-123.438356	M 10N 14W 05	Contributor
PCS	2000-04-04	2305	1	UM				38.752156	-123.446069	M 11N 14W 32	Quarter-section centroid
POS	2000-04-05	1630	2	UMUF	Y			38.741760	-123.436547	M 10N 14W 05	Contributor
NEG	2000-04-14	2001	0					38.740790	-123.441775	M 10N 14W 05	Section centroid
POS	2000-05-09	1545	2	UMUF	Y			38.742785	-123.433326	M 10N 14W 05	Contributor
NEG	2000-05-16	1535- 1720	0					38.740792	-123.436941	M 10N 14W 05	Half-section centroid
POS	2000-05-23	1832- 1838	2	UMUF	Y			38.745501	-123.431622	M 10N 14W 04	Contributor
NEG	2001-03-14	1930	0					38.740790	-123.441775	M 10N 14W 05	Section centroid
POS	2001-03-15	1847	1	UM				38.742078	-123.435834	M 10N 14W 05	Contributor
NEG	2001-03-15	2108	0					38.741327	-123.461604	M 10N 14W 06	Section centroid
AC	2001-05-04	1505	2	UMUF	Y	Y		38.744370	-123.434267	M 10N 14W 05	Contributor
NEG	2001-05-38	2204	0					38.741327	-123.461604	M 10N 14W 06	Section centroid
POS	2001-05-27	2311	1	UM				38.743090	-123.441188	M 10N 14W 05	Contributor
NEG	2001-05-28	2159	0					38.741327	-123.461604	M 10N 14W 06	Section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	2001-06-23	2253	0					38.737024	-123.436793	M 10N 14W 05	Quarter-section centroid
NEG	2001-06-26	2314	0					38.744870	-123.456334	M 10N 14W 06	Quarter-section centroid
NEG	2001-07-17	2147	0					38.737024	-123.436793	M 10N 14W 05	Quarter-section centroid
NEG	2002-03-15	2135	0					38.741327	-123.461604	M 10N 14W 06	Section centroid
POS	2002-04-02	1931	1	UM	Y			38.745695	-123.448940	M 10N 14W 05	Contributor
POS	2002-04-02	1956	1	UF				38.742094	-123.435851	M 10N 14W 05	Contributor
NEG	2002-04-11	0013	0					38.741327	-123.461604	M 10N 14W 06	Section centroid
NEG	2002-04-30	2216	0					38.741327	-123.461604	M 10N 14W 06	Section centroid
POS	2002-05-02	2251	2	UMLF	Y	N		38.735067	-123.437345	M 10N 14W 05	Contributor
POS	2002-05-02	1917- 1943	2	UMUF	Y			38.746097	-123.433003	M 10N 14W 05	Contributor
POS	2002-05-13	2130	2	UMUF	Y			38.745695	-123.448940	M 10N 14W 05	Contributor
POS	2002-05-14	1300- 1445	2	UMUF	Y			38.745934	-123.433125	M 10N 14W 05	Contributor
NEG	2003-03-04	2228	0					38.740790	-123.441775	M 10N 14W 05	Section centroid
POS	2003-04-01	2016	1	UM				38.735096	-123.437312	M 10N 14W 05	Contributor
POS	2003-04-02	1818- 1858	2	UMUF	Y			38.746323	-123.431934	M 10N 14W 04	Contributor
POS	2003-04-10	2148	1	UM				38.738683	-123.463061	M 10N 14W 06	Contributor
POS	2003-05-21	2046	1	UM				38.740875	-123.430746	M 10N 14W 04	Contributor

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
PCS	2003-05-21	1835	1	AF			1	38.746256	-123.433328	M 10N 14W 05	Contributor
POS	2004		2	UMUF	Y			38.744370	-123.434267	M 10N 14W 05	Activity center
POS	2004-05-28	1741823	1	UU				38.745467	-123.433646	M 10N 14W 05	Contributor
PCS	2008-03-27	2154	1	UM				38.744566	-123.437092	M 10N 14W 05	Quarter-section centroid
PCS	2008-05-21	2123	2	AMAF	Y			38.747254	-123.431493	M 10N 14W 04	Contributor
NEG	2010		0					38.744370	-123.434267	M 10N 14W 05	Activity center
NEG	2011	2400	0					38.739301	-123.424646	M 10N 14W 04	Contributor
NEG	2011	2400	0					38.734092	-123.463965	M 10N 14W 06	Contributor
NEG	2011	2400	0					38.733886	-123.422610	M 10N 14W 04	Contributor
NEG	2011	2400	0					38.738683	-123.463061	M 10N 14W 06	Contributor
NEG	2011-04-04	1953- 2003	0					38.740791	-123.430826	M 10N 14W 04	Contributor
POS	2011-04-04	1930- 1948	2	UMUF	Y			38.746257	-123.427507	M 10N 14W 04	Contributor
POS	2011-05-14	1830- 1930	1	UU				38.740790	-123.441775	M 10N 14W 05	Section centroid
NEG	2012	2400	0					38.738683	-123.463061	M 10N 14W 06	Contributor
NEG	2012	2400	0					38.739301	-123.424646	M 10N 14W 04	Contributor
NEG	2012	2400	0					38.740791	-123.430826	M 10N 14W 04	Contributor
NEG	2012	2400	0					38.733886	-123.422610	M 10N 14W 04	Contributor

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	2012	2400	0					38.735029	-123.437292	M 10N 14W 05	Contributor
NEG	2012	2400	0					38.746257	-123.427507	M 10N 14W 04	Contributor
NEG	2012	2400	0					38.734092	-123.463965	M 10N 14W 06	Contributor
NEG	2012-03-05	1810- 1824	0					38.742144	-123.435982	M 10N 14W 05	Contributor
NEG	2012-03-05	1620- 1800	0					38.740790	-123.441775	M 10N 14W 05	Section centroid
NEG	2012-03-24	1954- 2004	0					38.742144	-123.435982	M 10N 14W 05	Contributor
NEG	2012-03-31	1955- 2005	0					38.742144	-123.435982	M 10N 14W 05	Contributor
NEG	2012-03-31	1630- 1930	0					38.740832	-123.423170	M 10N 14W 04	Section centroid
NEG	2012-07-08	1900- 2030	0					38.744370	-123.434267	M 10N 14W 05	Activity center
NEG	2013	2400	0					38.746257	-123.427507	M 10N 14W 04	Contributor
NEG	2013	2400	0					38.738683	-123.463061	M 10N 14W 06	Contributor
NEG	2013	2400	0					38.735029	-123.437292	M 10N 14W 05	Contributor
NEG	2013	2400	0					38.737803	-123.454203	M 10N 14W 06	Contributor
NEG	2013	2400	0					38.742144	-123.435982	M 10N 14W 05	Contributor
NEG	2013	2400	0					38.733886	-123.422610	M 10N 14W 04	Contributor
NEG	2013	2400	0					38.745423	-123.456198	M 10N 14W 06	Contributor
NEG	2013	2400	0					38.740791	-123.430826	M 10N 14W 04	Contributor

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	2013	2400	0					38.734092	-123.463965	M 10N 14W 06	Contributor
NEG	2013	2400	0					38.739301	-123.424646	M 10N 14W 04	Contributor
NEG	2013-03-03	1600- 1800	3					38.740832	-123.423170	M 10N 14W 04	Section centroid
NEG	2013-03-09	2029- 2039	0					38.740895	-123.423179	M 10N 14W 04	Section centroid
NEG	2013-07-03	0730- 0900	0					38.740832	-123.423170	M 10N 14W 04	Section centroid
POS	2014		1	UU				38.744370	-123.434267	M 10N 14W 05	Activity center
POS	2015		1	UU				38.746486	-123.431876	M 10N 14W 04	Activity center
NEG	2020	2400	0					38.754880	-123.442870	M 11N 14W 32	Contributor
NEG	2020	2400	0					38.745423	-123.456198	M 10N 14W 06	Contributor
NEG	2020	2400	0					38.753830	-123.449170	M 11N 14W 32	Contributor
Masterowl: SON0017 Subspecies: NORTHERN											
POS	1990-02-02		1	UU				38.773615	-123.463826	M 11N 14W 30	Quarter-section centroid
POS	1990-02-07		1	UM				38.766342	-123.464101	M 11N 14W 30	Quarter-section centroid
POS	1990-03-21		2	UMUF	Y	Y		38.767034	-123.473487	M 11N 14W 30	Quarter-section centroid
POS	1990-04-04	1700	1	UM				38.768549	-123.470988	M 11N 14W 30	Contributor
POS	1990-06-17	2045	0				2	38.773390	-123.454662	M 11N 14W 29	Quarter-section centroid
NEG	1991-04-23		0					38.771320	-123.487547	M 11N 15W 25	Section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
POS	1991-04-24	2010	2	UMUF	Y			38.767034	-123.473487	M 11N 14W 30	Quarter-section centroid
POS	1991-05-21		1	UU				38.773390	-123.454662	M 11N 14W 29	Quarter-section centroid
POS	1991-07-17	9999	1	UU				38.771320	-123.487547	M 11N 15W 25	Section centroid
POS	1991-07-17	9999	1	UU				38.770325	-123.468628	M 11N 14W 30	Section centroid
POS	1991-07-17		1	UU				38.785883	-123.487589	M 11N 15W 24	Section centroid
POS	1991-08-07		1	UU				38.767034	-123.473487	M 11N 14W 30	Quarter-section centroid
POS	1991-08-07		1	UU				38.767528	-123.482860	M 11N 15W 25	Quarter-section centroid
POS	1991-08-15	2040	1	UU				38.767528	-123.482860	M 11N 15W 25	Quarter-section centroid
POS	1991-10-02		1	UU				38.767528	-123.482860	M 11N 15W 25	Quarter-section centroid
NEG	1992-03-10		0					38.770325	-123.468628	M 11N 14W 30	Section centroid
POS	1992-03-24		2	UUUU				38.773390	-123.454662	M 11N 14W 29	Quarter-section centroid
NEG	1992-03-31		0					38.785883	-123.487589	M 11N 15W 24	Section centroid
POS	1992-04-25		2	UMUF	Y			38.773390	-123.454662	M 11N 14W 29	Quarter-section centroid
POS	1992-05-01		2	UMUF				38.769964	-123.450450	M 11N 14W 29	Section centroid
POS	1992-05-01	9999	2	UMUF				38.770325	-123.468628	M 11N 14W 30	Section centroid
NEG	1992-05-12		0					38.770325	-123.468628	M 11N 14W 30	Section centroid
NEG	1992-05-15		0					38.770325	-123.468628	M 11N 14W 30	Section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	1992-07-09		0					38.769964	-123.450450	M 11N 14W 29	Section centroid
POS	1993-01-02		1	UU				38.774809	-123.482748	M 11N 15W 25	Quarter-section centroid
NEG	1993-03-22		0					38.784897	-123.468539	M 11N 14W 19	Section centroid
NEG	1993-04-28		0					38.770325	-123.468628	M 11N 14W 30	Section centroid
POS	1993-05-05		1	UU				38.773615	-123.463826	M 11N 14W 30	Quarter-section centroid
NEG	1993-06-16		0					38.770325	-123.468628	M 11N 14W 30	Section centroid
NEG	1993-06-23		0					38.770325	-123.468628	M 11N 14W 30	Section centroid
POS	1994-01-19	1723	2	UMUF	Y			38.768981	-123.475595	M 11N 14W 30	Contributor
POS	1994-03-03		1	UU				38.768981	-123.475595	M 11N 14W 30	Contributor
NEG	1994-03-24		0					38.770325	-123.468628	M 11N 14W 30	Section centroid
POS	1994-04-01		1	UM				38.768981	-123.475595	M 11N 14W 30	Contributor
NEG	1994-04-06		0					38.770325	-123.468628	M 11N 14W 30	Section centroid
POS	1994-04-27		2	UMUF	Y			38.768981	-123.475595	M 11N 14W 30	Contributor
POS	1995-03-30		2	UMUF	Y			38.768549	-123.470988	M 11N 14W 30	Contributor
NEG	1995-04-10		0					38.769964	-123.450450	M 11N 14W 29	Section centroid
POS	1995-04-20		1	UU				38.768549	-123.470988	M 11N 14W 30	Contributor
NEG	1995-05-04		0					38.784113	-123.450136	M 11N 14W 20	Section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
POS	1995-05-10		1	UU				38.780545	-123.454511	M 11N 14W 20	Quarter-section centroid
POS	1995-05-10	9999	1	UU				38.773615	-123.463826	M 11N 14W 30	Quarter-section centroid
POS	1995-05-11		2	UMUF	Y	Y		38.768981	-123.475595	M 11N 14W 30	Contributor
NEG	1995-05-18		0					38.770325	-123.468628	M 11N 14W 30	Section centroid
NEG	1995-05-25		0					38.770325	-123.468628	M 11N 14W 30	Section centroid
POS	1995-05-29		2	UMUF	Y			38.770325	-123.468628	M 11N 14W 30	Section centroid
POS	1995-06-01	0925	2	JMUF	Y	Y		38.768981	-123.475595	M 11N 14W 30	Contributor
POS	1995-07-06		2	UMUF	Y	Y	1	38.768981	-123.475595	M 11N 14W 30	Contributor
⁹¹⁵ POS	1995-09-18		1	UU				38.773604	-123.445765	M 11N 14W 29	Quarter-section centroid
NEG	1996-02-26		0					38.770325	-123.468628	M 11N 14W 30	Section centroid
POS	1996-03-03		1	UU				38.767034	-123.473487	M 11N 14W 30	Quarter-section centroid
POS	1996-03-04		1	UU				38.767034	-123.473487	M 11N 14W 30	Quarter-section centroid
NEG	1996-03-13	0937	0					38.767034	-123.473487	M 11N 14W 30	Quarter-section centroid
POS	1996-03-17		2	UMUF	Y			38.767034	-123.473487	M 11N 14W 30	Quarter-section centroid
POS	1996-03-18		2	UMUF	Y			38.767034	-123.473487	M 11N 14W 30	Quarter-section centroid
POS	1996-05-09		1	UU				38.767034	-123.473487	M 11N 14W 30	Quarter-section centroid
NEG	1996-06-30		0					38.770325	-123.468628	M 11N 14W 30	Section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	1996-06-30		0					38.769964	-123.450450	M 11N 14W 29	Section centroid
NEG	1996-08-05		0					38.770325	-123.468628	M 11N 14W 30	Section centroid
POS	1997-03-03		2	UMUF				38.767034	-123.473487	M 11N 14W 30	Quarter-section centroid
PCS	1997-04-14		2	UMUF	Y	Y		38.768549	-123.470988	M 11N 14W 30	Contributor
NEG	1997-04-29		0					38.771320	-123.487547	M 11N 15W 25	Section centroid
POS	1997-05-27		2	UMUF	Y			38.767034	-123.473487	M 11N 14W 30	Quarter-section centroid
NEG	1997-06-10		0					38.771320	-123.487547	M 11N 15W 25	Section centroid
NEG	1997-06-17		0					38.771320	-123.487547	M 11N 15W 25	Section centroid
POS	1997-07-01		1	UU				38.767528	-123.482860	M 11N 15W 25	Quarter-section centroid
POS	1997-07-01	9999	1	UU				38.759878	-123.473693	M 11N 14W 31	Quarter-section centroid
POS	1997-07-22		1	UU				38.767034	-123.473487	M 11N 14W 30	Quarter-section centroid
POS	1998-03-03		2	UMUF	Y			38.767034	-123.473487	M 11N 14W 30	Quarter-section centroid
POS	1998-04-28		2	UMUF	Y			38.767034	-123.473487	M 11N 14W 30	Quarter-section centroid
POS	1998-06-09		1	UU				38.767034	-123.473487	M 11N 14W 30	Quarter-section centroid
NEG	1998-07-13		0					38.769964	-123.450450	M 11N 14W 29	Section centroid
NEG	1998-07-20		0					38.769964	-123.450450	M 11N 14W 29	Section centroid
POS	1998-07-24		1	UM				38.767034	-123.473487	M 11N 14W 30	Quarter-section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
POS	1998-07-29		2	UMUF	Y			38.767034	-123.473487	M 11N 14W 30	Quarter-section centroid
NEG	1998-08-13		0					38.771320	-123.487547	M 11N 15W 25	Section centroid
NEG	1998-08-20		0					38.771320	-123.487547	M 11N 15W 25	Section centroid
NEG	1998-08-27		0					38.771320	-123.487547	M 11N 15W 25	Section centroid
NEG	1999	2400	0					38.771384	-123.457321	M 11N 14W 29	Contributor
NEG	1999	2400	0					38.775071	-123.448740	M 11N 14W 29	Contributor
POS	1999-03-15	1753	2	UMUF	Y			38.771723	-123.474797	M 11N 14W 30	Contributor
NEG	1999-03-17	0015	0					38.771320	-123.487547	M 11N 15W 25	Section centroid
NEG	1999-03-19	1926	0					38.771320	-123.487547	M 11N 15W 25	Section centroid
NEG	1999-03-28	2250	0					38.771320	-123.487547	M 11N 15W 25	Section centroid
NEG	1999-04-07	2025	0					38.771320	-123.487547	M 11N 15W 25	Section centroid
NEG	1999-04-08	2233	0					38.771320	-123.487547	M 11N 15W 25	Section centroid
NEG	1999-04-14	2255	0					38.771320	-123.487547	M 11N 15W 25	Section centroid
NEG	1999-04-21	2058	0					38.771320	-123.487547	M 11N 15W 25	Section centroid
POS	1999-04-21	1601- 1646	2	UMUF	Y			38.769832	-123.474835	M 11N 14W 30	Contributor
POS	1999-04-23	2153	1	UM				38.760569	-123.475284	M 11N 14W 31	Contributor
NEG	1999-05-01	2334	0					38.771320	-123.487547	M 11N 15W 25	Section centroid

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Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	1999-05-14	2212	0					38.771320	-123.487547	M 11N 15W 25	Section centroid
POS	1999-05-20	2356	2	UMUF	Y			38.767528	-123.482860	M 11N 15W 25	Quarter-section centroid
NEG	1999-05-21	2327	0					38.771320	-123.487547	M 11N 15W 25	Section centroid
NEG	1999-06-02	2216	0					38.771320	-123.487547	M 11N 15W 25	Section centroid
NEG	1999-06-03	2304	0					38.771320	-123.487547	M 11N 15W 25	Section centroid
NEG	2000	2400	0					38.771384	-123.457321	M 11N 14W 29	Contributor
NEG	2000	2403	0					38.775071	-123.448740	M 11N 14W 29	Contributor
NEG	2000-03-04	1505	0					38.766541	-123.477305	M 11N 14W 30	Activity center
^{GPS} POS	2000-03-11	0920	1	UU				38.774344	-123.473236	M 11N 14W 30	Quarter-section centroid
POS	2000-03-13	2200	1	UM				38.773615	-123.463826	M 11N 14W 30	Quarter-section centroid
POS	2000-03-14	1101	2	UMUF	Y			38.767034	-123.473487	M 11N 14W 30	Quarter-section centroid
NEG	2000-03-30	1943	0					38.771320	-123.487547	M 11N 15W 25	Section centroid
POS	2000-03-31	1045	2	UMUF	Y			38.773615	-123.463826	M 11N 14W 30	Quarter-section centroid
POS	2000-03-31	1333- 1442	2	UMUF	Y			38.774862	-123.461222	M 11N 14W 30	Contributor
POS	2000-04-03	2307	1	UU				38.767678	-123.492242	M 11N 15W 25	Quarter-section centroid
POS	2000-04-18	1854	1	UM				38.759343	-123.474495	M 11N 14W 31	Contributor
POS	2000-04-18	1928	1	UF				38.767034	-123.473487	M 11N 14W 30	Quarter-section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
PCS	2000-04-18	1957	1	UF				38.767034	-123.473487	M 11N 14W 30	Quarter-section centroid
NEG	2000-04-28	1500	0					38.769964	-123.450450	M 11N 14W 29	Section centroid
POS	2000-06-06	2406	1	UU				38.767034	-123.473487	M 11N 14W 30	Quarter-section centroid
POS	2001-03-11	1216	2	JMUF	Y			38.767034	-123.473487	M 11N 14W 30	Quarter-section centroid
NEG	2001-03-14	2150	0					38.770325	-123.468628	M 11N 14W 30	Section centroid
NEG	2001-03-15	2258	0					38.767034	-123.473487	M 11N 14W 30	Quarter-section centroid
NEG	2001-04-18	1330	0					38.769964	-123.450450	M 11N 14W 29	Section centroid
AC	2001-05-05	1615	2	UMUF	Y	Y		38.768938	-123.476506	M 11N 14W 30	Contributor
⁰⁵⁵ POS	2001-05-08	2222	1	UM				38.751048	-123.475289	M 11N 14W 31	Contributor
NEG	2001-05-16	2240	0					38.770325	-123.468628	M 11N 14W 30	Section centroid
NEG	2002-03-05	1425- 1640	0					38.773615	-123.463826	M 11N 14W 30	Quarter-section centroid
POS	2002-03-05	1340	1	UU				38.769832	-123.474835	M 11N 14W 30	Contributor
POS	2002-03-13	2346	1	UM				38.771384	-123.457321	M 11N 14W 29	Contributor
NEG	2002-03-14	1325- 1650	0					38.773497	-123.450212	M 11N 14W 29	Half-section centroid
NEG	2002-03-14	1400- 1700	0					38.773615	-123.463826	M 11N 14W 30	Quarter-section centroid
NEG	2002-03-15	2002	0					38.770325	-123.468628	M 11N 14W 30	Section centroid
POS	2002-04-06	1211- 1238	2	UMUF	Y	N		38.769832	-123.474835	M 11N 14W 30	Contributor

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
POS	2002-04-11	2113	1	JM				38.766429	-123.487526	M 11N 15W 25	Contributor
NEG	2002-04-23	1530- 1800	0					38.773615	-123.463326	M 11N 14W 30	Quarter-section centroid
POS	2003-03-04	2024	1	UM				38.756052	-123.479172	M 11N 15W 36	Contributor
POS	2003-03-09	1435- 1557	2	UMUF	Y			38.768569	-123.476942	M 11N 14W 30	Contributor
POS	2003-05-13	1635- 1714	1	UU				38.768672	-123.477129	M 11N 14W 30	Contributor
POS	2003-05-14	1838- 1907	2	UMUF	Y			38.776563	-123.460283	M 11N 14W 30	Contributor
NEG	2003-07-21	2238	0					38.770325	-123.468628	M 11N 14W 30	Section centroid
NEG	2004-04-06	1530	0					38.766541	-123.477305	M 11N 14W 30	Activity center
POS	2004-04-13	1710- 1730	1	UU				38.769832	-123.474835	M 11N 14W 30	Contributor
NEG	2004-05-20	2010	0					38.766541	-123.477305	M 11N 14W 30	Activity center
NEG	2005-03-13	1235	0					38.766541	-123.477305	M 11N 14W 30	Activity center
NEG	2005-07-08	1840	0					38.766541	-123.477305	M 11N 14W 30	Activity center
POS	2005-07-25	2000	2	UMUF				38.766541	-123.477305	M 11N 14W 30	Activity center
NEG	2005-07-26	1400	0					38.766541	-123.477305	M 11N 14W 30	Activity center
NEG	2005-07-27	1830	0					38.766541	-123.477305	M 11N 14W 30	Activity center
POS	2006		2	UMUF	Y			38.756266	-123.477812	M 11N 14W 31	Contributor
NEG	2006-03-30	1400	0					38.766541	-123.477305	M 11N 14W 30	Activity center

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	2006-04-05	1300	0					38.766541	-123.477305	M 11N 14W 30	Activity center
POS	2006-06-02	1300	1	UF				38.766541	-123.477305	M 11N 14W 30	Activity center
POS	2006-06-03	1230	2	UMUF	Y			38.756266	-123.477812	M 11N 14W 31	Contributor
NEG	2007		0					38.768938	-123.476506	M 11N 14W 30	Activity center
POS	2008-03-27	0021	2	AMAF	Y			38.767034	-123.473487	M 11N 14W 30	Quarter-section centroid
POS	2008-04-01	2325	2	AMAF	Y			38.766541	-123.477305	M 11N 14W 30	Contributor
POS	2008-05-20	1933	2	AMAF	Y	N		38.767034	-123.473487	M 11N 14W 30	Quarter-section centroid
POS	2009-04-11	2257	1	AM				38.767034	-123.473487	M 11N 14W 30	Quarter-section centroid
POS	2010		2	UMUF	Y			38.768938	-123.476506	M 11N 14W 30	Activity center
NEG	2011	2400	0					38.751819	-123.488838	M 11N 15W 36	Contributor
NEG	2011-03-06	1957- 2007	0					38.760569	-123.475284	M 11N 14W 31	Contributor
NEG	2011-03-06	1857- 1937	0					38.775640	-123.474278	M 11N 14W 30	Contributor
POS	2011-03-06	1934- 1949	2	UMUF	Y			38.770640	-123.477159	M 11N 14W 30	Contributor
NEG	2011-04-02	2114- 2124	0					38.766429	-123.487528	M 11N 15W 25	Contributor
NEG	2011-04-02	2059- 2109	0					38.761461	-123.484415	M 11N 15W 36	Contributor
POS	2011-04-03	1930- 1934	1	UF				38.775640	-123.474278	M 11N 14W 30	Contributor
POS	2011-04-04	1530- 1800	2	UMUF	Y			38.756103	-123.469053	M 11N 14W 31	Section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	2011-05-12	2257- 2307	0					38.775640	-123.474278	M 11N 14W 30	Contributor
NEG	2011-05-13	2244- 2254	0					38.761461	-123.484415	M 11N 15W 36	Contributor
NEG	2011-05-13	2257- 2307	0					38.766429	-123.487526	M 11N 15W 25	Contributor
NEG	2011-06-05	0002- 0012	0					38.766429	-123.487526	M 11N 15W 25	Contributor
POS	2011-06-05	2343- 2355	2	UMUF	Y			38.761461	-123.484415	M 11N 15W 36	Contributor
POS	2011-06-12	0113- 0125	1	JU				38.761461	-123.484415	M 11N 15W 36	Contributor
NEG	2011-06-12	0059- 0109	0					38.766429	-123.487526	M 11N 15W 25	Contributor
POS	2011-06-21	2117- 2120	1	UU				38.766429	-123.487526	M 11N 15W 25	Contributor
POS	2011-06-29	2144- 2148	1	UU				38.761461	-123.484415	M 11N 15W 36	Contributor
NEG	2011-06-29	2127- 2137	0					38.766429	-123.487526	M 11N 15W 25	Contributor
NEG	2012	2400	0					38.766429	-123.487526	M 11N 15W 25	Contributor
NEG	2012	2400	0					38.761477	-123.494327	M 11N 15W 36	Contributor
NEG	2012	2400	0					38.751819	-123.488838	M 11N 15W 36	Contributor
NEG	2012-03-07	2019- 2029	0					38.775640	-123.474278	M 11N 14W 30	Contributor
POS	2012-03-07	2118- 2128	1	UM				38.761461	-123.484415	M 11N 15W 36	Contributor
POS	2012-03-26	1300- 1430	2	UMUF	Y			38.770325	-123.468628	M 11N 14W 30	Section centroid
POS	2012-03-29	2356- 0006	1	UU				38.761461	-123.484415	M 11N 15W 36	Contributor

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	2012-04-27	2225- 2235	0					38.761461	-123.484415	M 11N 15W 36	Contributor
POS	2012-06-29	0001- 0011	1	UM				38.761461	-123.484415	M 11N 15W 36	Contributor
NEG	2012-07-06	0213- 0223	0					38.761461	-123.484415	M 11N 15W 36	Contributor
NEG	2013	2400	0					38.766429	-123.487526	M 11N 15W 25	Contributor
NEG	2013	2400	0					38.751819	-123.488838	M 11N 15W 36	Contributor
NEG	2013	2400	0					38.761461	-123.484415	M 11N 15W 36	Contributor
NEG	2013	2400	0					38.760569	-123.475284	M 11N 14W 31	Contributor
NEG	2013	2400	0					38.761477	-123.494327	M 11N 15W 36	Contributor
NEG	2013	2400	0					38.757367	-123.487494	M 11N 15W 36	Contributor
NEG	2013	2400	0					38.756052	-123.479172	M 11N 15W 36	Contributor
POS	2013-03-05	0930- 0935	1	UF				38.770325	-123.468628	M 11N 14W 30	Section centroid
NEG	2013-03-08	2127- 2137	0					38.775640	-123.474278	M 11N 14W 30	Contributor
POS	2013-03-08	2157- 2207	1	UU				38.770640	-123.477159	M 11N 14W 30	Contributor
POS	2013-04-19	2148- 2158	2	UMUF	Y			38.770640	-123.477159	M 11N 14W 30	Contributor
POS	2013-04-24	0805- 0930	1	UU				38.770325	-123.468628	M 11N 14W 30	Section centroid
POS	2013-07-06	0159- 0209	1	UM				38.775640	-123.474278	M 11N 14W 30	Contributor
NEG	2013-07-06	0130- 0140	0					38.770640	-123.477159	M 11N 14W 30	Contributor

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
POS	2014		1	UM				38.768938	-123.476506	M 11N 14W 30	Activity center
POS	2015		1	UU				38.769820	-123.474509	M 11N 14W 30	Activity center
NEG	2020	2400	0					38.766370	-123.473300	M 11N 14W 30	Contributor
NEG	2020	2400	0					38.760569	-123.475284	M 11N 14W 31	Contributor
NEG	2020	2400	0					38.756052	-123.479172	M 11N 15W 36	Contributor
Masterowl: SON0045 Subspecies: NORTHERN											
POS	1990-01-05		1	UF				38.744970	-123.456334	M 10N 14W 06	Quarter-section centroid
POS	1990-01-05		1	UM				38.745501	-123.476820	M 10N 15W 30	Quarter-section centroid
POS	1990-08-21	2109	1	UM				38.759258	-123.464286	M 11N 14W 31	Quarter-section centroid
NEG	1991-04-17		0					38.752607	-123.469019	M 11N 14W 31	Half-section centroid
POS	1991-04-22	2127	2	UMUF				38.752813	-123.473692	M 11N 14W 31	Quarter-section centroid
POS	1991-04-23	1931	2	UMUF	Y	Y		38.753313	-123.472614	M 11N 14W 31	Contributor
POS	1991-05-23	1655	2	UMUF	Y	Y		38.753313	-123.472614	M 11N 14W 31	Contributor
POS	1991-05-26	1601	1	UM				38.752813	-123.473692	M 11N 14W 31	Quarter-section centroid
POS	1991-06-04	1930	1	UU	Y		1	38.753313	-123.472614	M 11N 14W 31	Contributor
POS	1991-08-07	2053	1	UU				38.752607	-123.469019	M 11N 14W 31	Half-section centroid
POS	1991-08-15	2013	1	UU				38.752400	-123.464345	M 11N 14W 31	Quarter-section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
POS	1991-08-15		1	UU				38.745236	-123.466612	M 10N 14W 06	Quarter-section centroid
NEG	1992-03-10		0					38.756103	-123.469053	M 11N 14W 31	Section centroid
POS	1992-04-11		2	UMUF	Y			38.752813	-123.473692	M 11N 14W 31	Quarter-section centroid
NEG	1992-05-08	0955	0					38.752813	-123.473692	M 11N 14W 31	Quarter-section centroid
POS	1992-05-30		2	UMUF	Y			38.752813	-123.473692	M 11N 14W 31	Quarter-section centroid
NEG	1992-06-09		0					38.752813	-123.473692	M 11N 14W 31	Quarter-section centroid
NEG	1992-07-09		0					38.752813	-123.473692	M 11N 14W 31	Quarter-section centroid
POS	1992-08-07		2	UMUF	Y			38.752813	-123.473692	M 11N 14W 31	Quarter-section centroid
POS	1993-02-06	1600	1	UU				38.756103	-123.469053	M 11N 14W 31	Section centroid
POS	1993-02-06		1	UU				38.752813	-123.473692	M 11N 14W 31	Quarter-section centroid
POS	1993-03-10		1	UU				38.759258	-123.464286	M 11N 14W 31	Quarter-section centroid
POS	1993-05-05		2	UMUF	Y			38.752813	-123.473692	M 11N 14W 31	Quarter-section centroid
POS	1993-05-07	1235	1	UM				38.756103	-123.469053	M 11N 14W 31	Section centroid
POS	1994		0				2	38.752813	-123.473692	M 11N 14W 31	Quarter-section centroid
POS	1994-03-14		2	UMUF	Y			38.752813	-123.473692	M 11N 14W 31	Quarter-section centroid
POS	1994-03-15	1628	2	UMUF	Y			38.756103	-123.469053	M 11N 14W 31	Section centroid
NEG	1994-04-06		0					38.756103	-123.469053	M 11N 14W 31	Section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
POS	1994-04-13		1	UM				38.759258	-123.464286	M 11N 14W 31	Quarter-section centroid
NEG	1994-04-19		0					38.759258	-123.464286	M 11N 14W 31	Quarter-section centroid
PCS	1994-04-21		1	UM				38.759878	-123.473693	M 11N 14W 31	Quarter-section centroid
POS	1994-05-05	1030	2	UMUF	Y			38.756103	-123.469053	M 11N 14W 31	Section centroid
POS	1994-05-06		2	UMUF	Y			38.752813	-123.473692	M 11N 14W 31	Quarter-section centroid
POS	1994-06-10		1	UU				38.756103	-123.469053	M 11N 14W 31	Section centroid
POS	1995-03-29		2	UMUF	Y			38.752813	-123.473692	M 11N 14W 31	Quarter-section centroid
POS	1995-04-04		1	UU				38.759114	-123.455089	M 11N 14W 32	Quarter-section centroid
POS	1995-04-04		1	UU				38.766188	-123.454984	M 11N 14W 29	Quarter-section centroid
NEG	1995-04-10		0					38.756103	-123.469053	M 11N 14W 31	Section centroid
NEG	1995-05-03		0					38.756103	-123.469053	M 11N 14W 31	Section centroid
POS	1995-05-08	9999	1	UU				38.759258	-123.464286	M 11N 14W 31	Quarter-section centroid
POS	1995-05-08	9999	1	UU				38.752813	-123.473692	M 11N 14W 31	Quarter-section centroid
PCS	1995-05-08		1	UU				38.759114	-123.455089	M 11N 14W 32	Quarter-section centroid
POS	1995-05-09		2	UMUF	Y			38.752813	-123.473692	M 11N 14W 31	Quarter-section centroid
POS	1995-05-23		1	UU				38.752813	-123.473692	M 11N 14W 31	Quarter-section centroid
POS	1995-07-20		1	UU				38.752813	-123.473692	M 11N 14W 31	Quarter-section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	1995-07-25		0					38.756103	-123.469053	M 11N 14W 31	Section centroid
POS	1996-03-14		2	UMUF	Y			38.752813	-123.473692	M 11N 14W 31	Quarter-section centroid
NEG	1996-03-19		0					38.756103	-123.469053	M 11N 14W 31	Section centroid
NEG	1996-03-24		0					38.741327	-123.461604	M 10N 14W 06	Section centroid
NEG	1996-04-25		0					38.756103	-123.469053	M 11N 14W 31	Section centroid
NEG	1996-05-12		0					38.756103	-123.469053	M 11N 14W 31	Section centroid
NEG	1996-05-20		0					38.741327	-123.461604	M 10N 14W 06	Section centroid
NEG	1996-05-20		0					38.756103	-123.469053	M 11N 14W 31	Section centroid
NEG	1996-06-30		0					38.756103	-123.469053	M 11N 14W 31	Section centroid
NEG	1997-03-13		0					38.756103	-123.469053	M 11N 14W 31	Section centroid
NEG	1997-03-17		0					38.741327	-123.461604	M 10N 14W 06	Section centroid
NEG	1997-03-21		0					38.756103	-123.469053	M 11N 14W 31	Section centroid
NEG	1997-04-08		0					38.756103	-123.469053	M 11N 14W 31	Section centroid
NEG	1997-04-09		0					38.756103	-123.469053	M 11N 14W 31	Section centroid
NEG	1997-04-20		0					38.756103	-123.469053	M 11N 14W 31	Section centroid
NEG	1997-04-24		0					38.756103	-123.469053	M 11N 14W 31	Section centroid
POS	1997-04-29		1	UU				38.759258	-123.464286	M 11N 14W 31	Quarter-section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
POS	1997-04-30		2	UMUF	Y			38.759258	-123.464286	M 11N 14W 31	Quarter-section centroid
POS	1997-05-09		2	UMUF	Y			38.759258	-123.464286	M 11N 14W 31	Quarter-section centroid
NEG	1997-06-04		0					38.741327	-123.461604	M 10N 14W 06	Section centroid
NEG	1997-06-12		0					38.741327	-123.461604	M 10N 14W 06	Section centroid
NEG	1997-06-17		0					38.741327	-123.461604	M 10N 14W 06	Section centroid
POS	1997-06-17		1	UU				38.752400	-123.464345	M 11N 14W 31	Quarter-section centroid
NEG	1997-06-19		0					38.741327	-123.461604	M 10N 14W 06	Section centroid
NEG	1997-07-01		0					38.741327	-123.461604	M 10N 14W 06	Section centroid
NEG	1997-07-24		0					38.756103	-123.469053	M 11N 14W 31	Section centroid
POS	1998-03-19		2	UMUF	Y			38.759258	-123.464286	M 11N 14W 31	Quarter-section centroid
POS	1998-04-16		2	UMUF	Y			38.759258	-123.464286	M 11N 14W 31	Quarter-section centroid
POS	1998-04-28		2	UMUF	Y			38.759258	-123.464286	M 11N 14W 31	Quarter-section centroid
NEG	1998-05-13		0					38.756103	-123.469053	M 11N 14W 31	Section centroid
NEG	1998-05-21		0				0	38.756103	-123.469053	M 11N 14W 31	Section centroid
NEG	1998-05-22		0					38.741327	-123.461604	M 10N 14W 06	Section centroid
NEG	1998-05-31		0					38.741327	-123.461604	M 10N 14W 06	Section centroid
NEG	1998-06-05		0					38.756103	-123.469053	M 11N 14W 31	Section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
POS	1998-06-10		2	UMUF	Y			38.759258	-123.464286	M 11N 14W 31	Quarter-section centroid
NEG	1998-08-04		0					38.756103	-123.469053	M 11N 14W 31	Section centroid
NEG	1998-08-25		0					38.756103	-123.469053	M 11N 14W 31	Section centroid
NEG	1998-08-25		0					38.769964	-123.450450	M 11N 14W 29	Section centroid
NEG	1999	2400	3					38.767247	-123.451614	M 11N 14W 29	Contributor
NEG	1999-03-15	2117	0					38.756103	-123.469053	M 11N 14W 31	Section centroid
NEG	1999-03-17	2205	0					38.756103	-123.469053	M 11N 14W 31	Section centroid
NEG	1999-03-20	1304	0					38.756103	-123.469053	M 11N 14W 31	Section centroid
NEG	1999-04-07	2007	0					38.756103	-123.469053	M 11N 14W 31	Section centroid
NEG	1999-04-08	2317	0					38.756103	-123.469053	M 11N 14W 31	Section centroid
NEG	1999-04-14	2314	0					38.756103	-123.469053	M 11N 14W 31	Section centroid
NEG	1999-04-16	2303	0					38.756103	-123.469053	M 11N 14W 31	Section centroid
NEG	1999-04-21	2027	0					38.756103	-123.469053	M 11N 14W 31	Section centroid
POS	1999-04-23	2228	2	UMUF	Y			38.763746	-123.460965	M 11N 14W 30	Contributor
NEG	1999-05-01	2121	0					38.756103	-123.469053	M 11N 14W 31	Section centroid
NEG	1999-05-04	1900	0					38.756103	-123.469053	M 11N 14W 31	Section centroid
POS	1999-05-12	2213	1	UM				38.759114	-123.455089	M 11N 14W 32	Quarter-section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
POS	1999-05-13	1031- 1136	1	UM				38.762518	-123.456485	M 11N 14W 29	Contributor
POS	1999-05-21	0041	1	UM				38.759258	-123.464286	M 11N 14W 31	Quarter-section centroid
POS	1999-05-21	0041	1	UM				38.758545	-123.468644	M 11N 14W 31	Contributor
NEG	1999-06-03	0013	0					38.756103	-123.469053	M 11N 14W 31	Section centroid
NEG	2000	2400	0					38.767247	-123.451614	M 11N 14W 29	Contributor
NEG	2000-03-13	2112	0					38.756103	-123.469053	M 11N 14W 31	Section centroid
NEG	2000-03-15	2014	0					38.756103	-123.469053	M 11N 14W 31	Section centroid
NEG	2000-03-29	1835	0					38.756103	-123.469053	M 11N 14W 31	Section centroid
NEG	2000-04-04	1150	0					38.756103	-123.469053	M 11N 14W 31	Section centroid
NEG	2000-04-13	1058	0					38.756103	-123.469053	M 11N 14W 31	Section centroid
NEG	2000-04-20	1302	0					38.752813	-123.473692	M 11N 14W 31	Quarter-section centroid
NEG	2000-04-20	1302	0					38.752813	-123.473692	M 11N 14W 31	Quarter-section centroid
NEG	2000-04-28	1500	0					38.769964	-123.450450	M 11N 14W 29	Section centroid
NEG	2000-05-01	0500	0					38.752813	-123.473692	M 11N 14W 31	Quarter-section centroid
NEG	2000-05-15	1314	0					38.756103	-123.469053	M 11N 14W 31	Section centroid
POS	2000-06-28	2316	1	UM				38.759114	-123.455089	M 11N 14W 32	Quarter-section centroid
POS	2000-06-29	1205	2	UMUF	Y			38.759114	-123.455089	M 11N 14W 32	Quarter-section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
POS	2001-03-15	1640	2	UMUF	Y	Y		38.762297	-123.456790	M 11N 14W 32	Contributor
POS	2001-05-08	2222	1	UM				38.756103	-123.469053	M 11N 14W 31	Section centroid
POS	2001-06-28	0032	1	UU				38.761141	-123.455348	M 11N 14W 32	Contributor
POS	2002-03-12	1956	2	JMUF	Y			38.761141	-123.455348	M 11N 14W 32	Contributor
POS	2002-03-13	1150	1	UM				38.761935	-123.457028	M 11N 14W 32	Contributor
POS	2002-05-03	1431- 1517	2	UMUF	Y	N		38.760643	-123.459590	M 11N 14W 31	Contributor
POS	2002-05-13	1925- 1949	1	UU				38.760172	-123.461077	M 11N 14W 31	Contributor
POS	2003-03-31	1541	2	UMUF	Y	Y		38.758815	-123.462607	M 11N 14W 31	Contributor
POS	2003-05-01	1545- 1635	2	UMUF	Y	Y		38.758815	-123.462607	M 11N 14W 31	Contributor
POS	2003-06-11	1906- 1944	1	UF		Y	0	38.762297	-123.456790	M 11N 14W 32	Contributor
POS	2003-06-12	1219- 1242	1	AF			1	38.758765	-123.462669	M 11N 14W 31	Activity center
NEG	2003-06-12	1245- 1355	0					38.766601	-123.446147	M 11N 14W 29	Quarter-section centroid
POS	2004		2	UMUF	Y			38.758815	-123.462607	M 11N 14W 31	Activity center
POS	2005		1	UM				38.758815	-123.462607	M 11N 14W 31	Activity center
POS	2006		2	UMUF	Y			38.758815	-123.462607	M 11N 14W 31	Activity center
POS	2007-04-07	1714	1	UM				38.758221	-123.462288	M 11N 14W 31	Contributor
POS	2007-05-12	1830	1	UU				38.752813	-123.473692	M 11N 14W 31	Quarter-section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
PCS	2007-05-18	1834	1	UM				38.759258	-123.464286	M 11N 14W 31	Quarter-section centroid
PCS	2008-03-20	1220	1	AM				38.759114	-123.455089	M 11N 14W 32	Quarter-section centroid
POS	2008-03-27	1922	1	AM				38.759258	-123.464286	M 11N 14W 31	Quarter-section centroid
POS	2008-05-20	2250	1	JU				38.759258	-123.464286	M 11N 14W 31	Quarter-section centroid
POS	2009-04-08	2226	1	UM				38.752813	-123.473692	M 11N 14W 31	Quarter-section centroid
POS	2009-04-11	2314	2	AMAF	Y			38.761302	-123.457819	M 11N 14W 32	Contributor
POS	2009-04-14	2216	1	AM				38.759878	-123.473693	M 11N 14W 31	Quarter-section centroid
POS	2009-04-16	2239	1	AF				38.759258	-123.464286	M 11N 14W 31	Quarter-section centroid
POS	2009-05-19	1900	2	AMAF	Y	N		38.759258	-123.464286	M 11N 14W 31	Quarter-section centroid
PCS	2010		2	UMUF	Y			38.758815	-123.462607	M 11N 14W 31	Activity center
NEG	2011	2400	0					38.743288	-123.471374	M 10N 14W 06	Contributor
NEG	2011	2400	0					38.746160	-123.480498	M 10N 15W 01	Contributor
NEG	2011-03-06	2014- 2024	0					38.758506	-123.468609	M 11N 14W 31	Contributor
POS	2011-05-13	2228- 2238	1	UM				38.751113	-123.475357	M 11N 14W 31	Contributor
POS	2011-06-05	2321- 2332	1	UM				38.751113	-123.475357	M 11N 14W 31	Contributor
PCS	2011-06-12	0830- 1100	2	UMUF	Y			38.756103	-123.469053	M 11N 14W 31	Section centroid
NEG	2012	2400	0					38.743288	-123.471374	M 10N 14W 06	Contributor

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	2012	2400	0					38.746160	-123.480498	M 10N 15W 01	Contributor
POS	2012-08-27	0900- 1047	1	UU				38.756103	-123.469053	M 11N 14W 31	Section centroid
NEG	2013	2400	0					38.746160	-123.480498	M 10N 15W 01	Contributor
NEG	2013	2400	0					38.751936	-123.457448	M 11N 14W 32	Contributor
NEG	2013	2400	0					38.748817	-123.465814	M 10N 14W 06	Contributor
NEG	2013	2400	0					38.743288	-123.471374	M 10N 14W 06	Contributor
NEG	2013-03-07	2104- 2114	0					38.758506	-123.468609	M 11N 14W 31	Contributor
NEG	2013-03-09	2219- 2229	0					38.751113	-123.475357	M 11N 14W 31	Contributor
^{vis} NEG	2013-04-19	2110- 2120	0					38.758506	-123.468609	M 11N 14W 31	Contributor
POS	2013-04-21	0152- 0202	1	UU				38.751113	-123.475357	M 11N 14W 31	Contributor
POS	2013-04-28	0500- 0510	1	UM				38.758506	-123.468609	M 11N 14W 31	Contributor
NEG	2013-05-23	0052- 0102	0					38.751113	-123.475357	M 11N 14W 31	Contributor
NEG	2013-05-31	0315- 0325	0					38.751113	-123.475357	M 11N 14W 31	Contributor
NEG	2013-06-05	0430- 0440	0					38.758506	-123.468609	M 11N 14W 31	Contributor
NEG	2013-06-30	0150- 0200	0					38.751113	-123.475357	M 11N 14W 31	Contributor
NEG	2013-07-07	0423- 0433	0					38.751113	-123.475357	M 11N 14W 31	Contributor
NEG	2013-07-11	0420- 0430	0					38.758506	-123.468609	M 11N 14W 31	Contributor

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
POS	2014		2	UMUF	Y			38.758815	-123.462607	M 11N 14W 31	Activity center
POS	2015		1	UU				38.760403	-123.460493	M 11N 14W 31	Activity center
NEG	2018-03-14	1225- 1315	0					38.755831	-123.464319	M 11N 14W 31	Half-section centroid
NEG	2018-04-13	1000- 1115	0					38.759116	-123.455084	M 11N 14W 32	Quarter-section centroid
NEG	2018-05-13	0930- 1100	0					38.759116	-123.455084	M 11N 14W 32	Quarter-section centroid
NEG	2019-05-06	0445- 0600	0					38.756099	-123.469049	M 11N 14W 31	Section centroid
NEG	2019-05-13	1700- 1900	0					38.759251	-123.464289	M 11N 14W 31	Quarter-section centroid
NEG	2019-05-31	1714- 1930	0					38.756099	-123.469049	M 11N 14W 31	Section centroid
NEG	2019-06-06	0915- 1045	0					38.759261	-123.464289	M 11N 14W 31	Quarter-section centroid
NEG	2020	2400	0					38.753830	-123.449170	M 11N 14W 32	Contributor
NEG	2020	2400	0					38.758506	-123.468609	M 11N 14W 31	Contributor
NEG	2020	2400	0					38.761200	-123.455130	M 11N 14W 32	Contributor
NEG	2020	2400	0					38.751936	-123.457448	M 11N 14W 32	Contributor
NEG	2020	2400	0					38.748617	-123.465814	M 10N 14W 06	Contributor
NEG	2020	2400	0					38.767247	-123.451614	M 11N 14W 29	Contributor
NEG	2020	2400	0					38.751113	-123.475357	M 11N 14W 31	Contributor
NEG	2020	2400	0					38.763690	-123.460920	M 11N 14W 30	Contributor

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	2020-03-10	1630- 1730	0					38.758815	-123.462607	M 11N 14W 31	Activity center
PCS	2020-05-15	1700- 1745	1					38.758815	-123.462607	M 11N 14W 31	Activity center
NEG	2021	2400	0					38.767247	-123.451614	M 11N 14W 29	Contributor
NEG	2021-03-08	1730- 1800	0					38.755831	-123.464319	M 11N 14W 31	Half-section centroid
NEG	2021-03-23	1630- 1800	0					38.752607	-123.469022	M 11N 14W 31	Half-section centroid
NEG	2021-05-04	1730- 1900	0					38.759261	-123.464289	M 11N 14W 31	Quarter-section centroid
NEG	2021-05-18	1715- 1815	0					38.758815	-123.462607	M 11N 14W 31	Activity center
Masterowl: SON0082 Subspecies: NORTHERN											
POS	1990-02-12	2001	1	UM				38.768549	-123.470988	M 11N 14W 30	Contributor
POS	1993-01-11		1	UU				38.775076	-123.492350	M 11N 15W 25	Quarter-section centroid
POS	1995-04-02		1	UU				38.767819	-123.501532	M 11N 15W 26	Quarter-section centroid
POS	1995-04-17		1	UU				38.767968	-123.510776	M 11N 15W 26	Quarter-section centroid
NEG	1995-04-23		0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	1995-05-02		0					38.771628	-123.506267	M 11N 15W 26	Section centroid
POS	1995-05-04		2	UMUF	Y			38.767819	-123.501532	M 11N 15W 26	Quarter-section centroid
NEG	1995-05-10		0					38.771628	-123.506267	M 11N 15W 26	Section centroid
POS	1995-05-26		2	UMUF	Y			38.767819	-123.501532	M 11N 15W 26	Quarter-section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
POS	1995-05-26		1	UU				38.775076	-123.492350	M 11N 15W 25	Quarter-section centroid
NEG	1995-05-29		0					38.775076	-123.492350	M 11N 15W 25	Quarter-section centroid
NEG	1995-06-29		0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	1995-07-11		0					38.771628	-123.506267	M 11N 15W 26	Section centroid
POS	1995-07-18		1	UU				38.775270	-123.501745	M 11N 15W 26	Quarter-section centroid
NEG	1995-07-19	1200	0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	1995-11-10	1809	0					38.771628	-123.506267	M 11N 15W 26	Section centroid
POS	1996-03-03		1	UU				38.767968	-123.510776	M 11N 15W 26	Quarter-section centroid
NEG	1996-03-06	2110	0					38.772158	-123.525161	M 11N 15W 27	Section centroid
NEG	1996-03-14	0515	0					38.772158	-123.525161	M 11N 15W 27	Section centroid
POS	1996-03-14	0616	2	UMUF	Y			38.765244	-123.507338	M 11N 15W 26	Contributor
NEG	1996-03-22		0					38.772158	-123.525161	M 11N 15W 27	Section centroid
POS	1996-04-29		1	UU				38.767819	-123.501532	M 11N 15W 26	Quarter-section centroid
NEG	1996-05-02		0					38.771628	-123.506267	M 11N 15W 26	Section centroid
POS	1996-05-09		1	UU				38.767968	-123.510776	M 11N 15W 26	Quarter-section centroid
NEG	1996-05-13		0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	1996-05-20		0					38.771320	-123.487547	M 11N 15W 25	Section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	1996-05-30		0					38.771628	-123.506267	M 11N 15W 26	Section centroid
POS	1996-06-06		1	UF				38.775847	-123.520376	M 11N 15W 27	Quarter-section centroid
NEG	1996-06-07	1200	0					38.772158	-123.525161	M 11N 15W 27	Section centroid
NEG	1996-06-16		0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	1996-06-17		0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	1996-07-10		0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	1996-08-30		0					38.772158	-123.525161	M 11N 15W 27	Section centroid
NEG	1997-03-03		0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	1997-03-10		0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	1997-04-08		0					38.757230	-123.505889	M 11N 15W 35	Section centroid
NEG	1997-04-09		0					38.772158	-123.525161	M 11N 15W 27	Section centroid
NEG	1997-04-09		0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	1997-04-29		0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	1997-05-02		0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	1997-05-08		0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	1997-06-10		3					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	1997-06-17		0					38.771628	-123.506267	M 11N 15W 26	Section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	1997-06-26		0					38.757230	-123.505889	M 11N 15W 35	Section centroid
NEG	1997-07-01		0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	1998-04-09		0					38.757230	-123.505889	M 11N 15W 35	Section centroid
NEG	1998-04-15		0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	1998-04-16		0					38.757230	-123.505889	M 11N 15W 35	Section centroid
NEG	1998-04-24		0					38.757230	-123.505889	M 11N 15W 35	Section centroid
POS	1998-05-13		1	UM				38.767619	-123.501532	M 11N 15W 26	Quarter-section centroid
NEG	1998-05-18		0					38.772158	-123.525161	M 11N 15W 27	Section centroid
NEG	1998-06-02		0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	1998-06-03		0					38.772158	-123.525161	M 11N 15W 27	Section centroid
NEG	1998-07-28		0					38.772158	-123.525161	M 11N 15W 27	Section centroid
NEG	1999-03-15	0015	0					38.771320	-123.487547	M 11N 15W 25	Section centroid
NEG	1999-03-17	0015	0					38.771320	-123.487547	M 11N 15W 25	Section centroid
NEG	1999-03-19	1926	0					38.771320	-123.487547	M 11N 15W 25	Section centroid
NEG	1999-03-28	2250	0					38.771320	-123.487547	M 11N 15W 25	Section centroid
NEG	1999-04-08	2233	0					38.771320	-123.487547	M 11N 15W 25	Section centroid
NEG	1999-04-21	2658	0					38.771320	-123.487547	M 11N 15W 25	Section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	1999-04-24	2028	0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	1999-04-28	1700	0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	1999-05-01	2334	0					38.771320	-123.487547	M 11N 15W 25	Section centroid
NEG	1999-05-13	2046	0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	1999-05-14	2212	0					38.771320	-123.487547	M 11N 15W 25	Section centroid
POS	1999-05-14	2052	1	UM				38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	1999-05-20	2343	0					38.771320	-123.487547	M 11N 15W 25	Section centroid
NEG	1999-05-21	2327	0					38.771320	-123.487547	M 11N 15W 25	Section centroid
NEG	1999-06-01	2055	0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	1999-06-02	2216	0					38.771320	-123.487547	M 11N 15W 25	Section centroid
NEG	1999-06-03	2304	0					38.771320	-123.487547	M 11N 15W 25	Section centroid
NEG	1999-06-09	2055	0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	1999-08-29	2000	0					38.771628	-123.506267	M 11N 15W 26	Section centroid
POS	2000		2	UMUF	Y			38.767819	-123.501532	M 11N 15W 26	Quarter-section centroid
NEG	2000-03-03	2000	0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	2000-03-12	0732	0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	2000-03-14	1902	0					38.771628	-123.506267	M 11N 15W 26	Section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	2000-03-14	0026	0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	2000-03-30	1943	0					38.771320	-123.487547	M 11N 15W 25	Section centroid
POS	2000-04-03	2247	1	UU				38.771628	-123.506267	M 11N 15W 26	Section centroid
POS	2000-04-03	1947	1	UM				38.775270	-123.501745	M 11N 15W 26	Quarter-section centroid
POS	2000-04-03	2025	1	UM				38.771628	-123.506267	M 11N 15W 26	Section centroid
POS	2000-04-04	1431	2	UMUF	Y			38.767819	-123.501532	M 11N 15W 26	Quarter-section centroid
NEG	2000-04-05	2052	0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	2000-04-06	2015	0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	2000-04-07	1945	0					38.771628	-123.506267	M 11N 15W 26	Section centroid
POS	2000-04-13	2100	1	UM				38.771628	-123.506267	M 11N 15W 26	Section centroid
POS	2000-04-14	2059	2	UMUF	Y			38.775270	-123.501745	M 11N 15W 26	Quarter-section centroid
NEG	2000-04-15	1050	0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	2000-04-18	2105	0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	2000-04-24	0030	0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	2000-06-04	2122	0					38.771628	-123.506267	M 11N 15W 26	Section centroid
POS	2000-06-06	2352	1	UM				38.767678	-123.492242	M 11N 15W 25	Quarter-section centroid
POS	2000-06-29	1100	2	UMUF	Y			38.772547	-123.500126	M 11N 15W 26	Contributor

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	2001-03-13	1933	0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	2001-03-15	1611	0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	2001-04-04	1730	0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	2001-04-19	1630	0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	2001-05-05	1145	0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	2001-05-08	0313	0					38.771320	-123.487547	M 11N 15W 25	Section centroid
NEG	2001-05-16	0030	0					38.771320	-123.487547	M 11N 15W 25	Section centroid
NEG	2002-03-06	2002-03-06	0					38.767819	-123.501532	M 11N 15W 26	Quarter-section centroid
NEG	2002-03-15	2002	0					38.771628	-123.506267	M 11N 15W 26	Section centroid
PCS	2002-03-15	2033	1	UM				38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	2002-04-11	2101	0					38.771628	-123.506267	M 11N 15W 26	Section centroid
POS	2002-04-11	0041	1	UM				38.765786	-123.514210	M 11N 15W 26	Contributor
POS	2002-04-12	1125	1	JF				38.765987	-123.514497	M 11N 15W 26	Contributor
POS	2002-04-12	0041	1	UF				38.767968	-123.510776	M 11N 15W 26	Quarter-section centroid
NEG	2002-04-21	1050-1305	0					38.767968	-123.510776	M 11N 15W 26	Quarter-section centroid
NEG	2002-04-22	0123	0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	2002-04-22	0123	0					38.771628	-123.506267	M 11N 15W 26	Section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	2002-04-30	2149	0					38.771628	-123.506267	M 11N 15W 26	Section centroid
POS	2002-04-30	0016	1	UU				38.770009	-123.502228	M 11N 15W 26	Contributor
POS	2002-05-01	0016	1	UU				38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	2002-05-01	1230- 1400	0					38.767968	-123.510776	M 11N 15W 26	Quarter-section centroid
POS	2002-05-05	1230	1	UM				38.767819	-123.501532	M 11N 15W 26	Quarter-section centroid
NEG	2002-05-13	2349	0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	2002-05-14	1300- 1633	0					38.767819	-123.501532	M 11N 15W 26	Quarter-section centroid
NEG	2002-05-15	1312- 1523	0					38.767819	-123.501532	M 11N 15W 26	Quarter-section centroid
NEG	2002-08-30	1111	0					38.771320	-123.487547	M 11N 15W 25	Section centroid
POS	2003-03-04	1420- 1452	1	UF				38.771698	-123.503227	M 11N 15W 26	Contributor
NEG	2003-03-06	2023	0					38.785883	-123.487569	M 11N 15W 24	Section centroid
POS	2003-03-08	1913	1	UM				38.766296	-123.487434	M 11N 15W 25	Contributor
NEG	2003-04-03	1540- 1630	0					38.767968	-123.510776	M 11N 15W 26	Quarter-section centroid
POS	2003-04-07	2214	1	UM				38.784782	-123.493778	M 11N 15W 24	Contributor
POS	2003-04-08	1536- 1550	1	UU				38.769112	-123.503789	M 11N 15W 26	Contributor
POS	2003-04-09	1745- 1830	1	UF				38.769260	-123.503613	M 11N 15W 26	Contributor
NEG	2003-04-10	2330	0					38.771320	-123.487547	M 11N 15W 25	Section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
PCS	2003-04-29	1901- 1942	1	UU				38.769390	-123.503854	M 11N 15W 26	Contributor
PCS	2003-04-30	2350	1	UF				38.771008	-123.492923	M 11N 15W 25	Contributor
POS	2004-03-10	1440- 1535	2	UMUF	Y			38.772132	-123.502149	M 11N 15W 26	Contributor
POS	2004-05-20	1840	2	AMAF	Y	Y	1	38.771471	-123.505195	M 11N 15W 26	Contributor
POS	2005		1	UU		Y		38.771471	-123.505195	M 11N 15W 26	Contributor
POS	2005-06-09	1916	2	UMUF	Y	Y	2	38.771471	-123.505195	M 11N 15W 26	Contributor
AC	2006		1	UU		Y		38.771471	-123.505195	M 11N 15W 26	Contributor
POS	2006-04-07	1445- 1454	2	UMUF	Y			38.771471	-123.505195	M 11N 15W 26	Contributor
POS	2007-04-10	2154	1	UM				38.767819	-123.501532	M 11N 15W 26	Quarter-section centroid
POS	2007-05-15	0111	2	UMUF	Y			38.767819	-123.501532	M 11N 15W 26	Quarter-section centroid
POS	2008-05-21	0056	1	UU				38.767819	-123.501532	M 11N 15W 26	Quarter-section centroid
NEG	2009		0					38.771471	-123.505195	M 11N 15W 26	Activity center
NEG	2010		0					38.771471	-123.505195	M 11N 15W 26	Activity center
NEG	2011	2400	0					38.777923	-123.485538	M 11N 15W 25	Contributor
NEG	2011	2400	0					38.771008	-123.492923	M 11N 15W 25	Contributor
NEG	2011	2400	0					38.765077	-123.502655	M 11N 15W 26	Contributor
NEG	2011	2400	0					38.759479	-123.502901	M 11N 15W 35	Contributor

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	2011	2400	0					38.774406	-123.516242	M 11N 15W 27	Contributor
NEG	2011	2430	0					38.777482	-123.508707	M 11N 15W 26	Contributor
NEG	2011	2400	0					38.772302	-123.496673	M 11N 15W 25	Contributor
NEG	2011	2400	0					38.776040	-123.500132	M 11N 15W 26	Contributor
NEG	2011	2400	0					38.770009	-123.502228	M 11N 15W 26	Contributor
NEG	2011	2400	0					38.765786	-123.514210	M 11N 15W 26	Contributor
NEG	2011	2400	0					38.770021	-123.512985	M 11N 15W 26	Contributor
NEG	2012	2400	0					38.771008	-123.492923	M 11N 15W 25	Contributor
NEG	2012	2400	0					38.776040	-123.500132	M 11N 15W 26	Contributor
NEG	2012	2400	0					38.772302	-123.496673	M 11N 15W 25	Contributor
NEG	2012	2400	0					38.765786	-123.514210	M 11N 15W 26	Contributor
NEG	2012	2400	0					38.759479	-123.502901	M 11N 15W 35	Contributor
NEG	2012	2400	0					38.774406	-123.516242	M 11N 15W 27	Contributor
NEG	2012	2400	0					38.770021	-123.512985	M 11N 15W 26	Contributor
NEG	2012	2400	0					38.770009	-123.502228	M 11N 15W 26	Contributor
NEG	2012	2400	0					38.765077	-123.502655	M 11N 15W 26	Contributor
NEG	2012	2430	0					38.777923	-123.485538	M 11N 15W 25	Contributor

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	2012	2400	0					38.777482	-123.508707	M 11N 15W 26	Contributor
NEG	2012-03-28	1015- 1200	0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	2012-04-30	1830- 1930	0					38.771420	-123.505189	M 11N 15W 26	Activity center
NEG	2013	2400	0					38.771008	-123.492923	M 11N 15W 25	Contributor
NEG	2013	2400	0					38.770021	-123.512985	M 11N 15W 26	Contributor
NEG	2013	2400	0					38.776040	-123.500132	M 11N 15W 26	Contributor
NEG	2013	2400	0					38.774406	-123.516242	M 11N 15W 27	Contributor
NEG	2013	2400	0					38.759479	-123.502901	M 11N 15W 35	Contributor
NEG	2013	2400	0					38.777923	-123.485538	M 11N 15W 25	Contributor
NEG	2013	2400	0					38.777482	-123.508707	M 11N 15W 26	Contributor
NEG	2013	2400	0					38.772302	-123.496673	M 11N 15W 25	Contributor
NEG	2013	2400	0					38.770009	-123.502228	M 11N 15W 26	Contributor
NEG	2013	2400	0					38.765786	-123.514210	M 11N 15W 26	Contributor
NEG	2013	2400	0					38.765077	-123.502655	M 11N 15W 26	Contributor
NEG	2013-03-04	1150- 1315	0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	2013-05-31	1400- 1530	0					38.771628	-123.506267	M 11N 15W 26	Section centroid
NEG	2014		0					38.771471	-123.505195	M 11N 15W 26	Activity center

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
POS	2015		1	UU				38.771420	-123.505189	M 11N 15W 26	Activity center
Masterowl: SON0085 Subspecies: NORTHERN											
POS	1995-06-26		1	UU				38.723439	-123.428175	M 10N 14W 09	Quarter-section centroid
NEG	1997-03-17		0					38.712991	-123.424007	M 10N 14W 16	Section centroid
NEG	1997-06-04		0					38.726812	-123.441885	M 10N 14W 08	Section centroid
POS	1997-06-10		1	UU				38.723254	-123.446361	M 10N 14W 08	Quarter-section centroid
NEG	1997-06-12		0					38.726812	-123.441885	M 10N 14W 08	Section centroid
NEG	1997-06-16		0					38.726710	-123.423168	M 10N 14W 09	Section centroid
NEG	1997-06-19		0					38.726812	-123.441885	M 10N 14W 08	Section centroid
NEG	1997-07-16		0					38.726812	-123.441885	M 10N 14W 08	Section centroid
NEG	1997-07-23		0					38.726710	-123.423168	M 10N 14W 09	Section centroid
NEG	1997-07-31		0					38.726812	-123.441885	M 10N 14W 08	Section centroid
NEG	1998-03-04		0					38.726812	-123.441885	M 10N 14W 08	Section centroid
NEG	1998-03-11		0					38.726812	-123.441885	M 10N 14W 08	Section centroid
NEG	1998-05-22		0					38.726812	-123.441885	M 10N 14W 08	Section centroid
NEG	1998-06-08		0					38.726812	-123.441885	M 10N 14W 08	Section centroid
NEG	1998-08-31		0					38.712991	-123.424007	M 10N 14W 16	Section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	1999	2400	0					38.712854	-123.441616	M 10N 14W 17	Section centroid
NEG	1999-03-15	2233	0					38.726812	-123.441885	M 10N 14W 08	Section centroid
NEG	1999-03-16	2156	0					38.726710	-123.423168	M 10N 14W 09	Section centroid
NEG	1999-03-20	1930	0					38.726812	-123.441885	M 10N 14W 08	Section centroid
NEG	1999-03-27	2321	0					38.726812	-123.441885	M 10N 14W 08	Section centroid
NEG	1999-04-05	2007	0					38.726812	-123.441885	M 10N 14W 08	Section centroid
NEG	1999-04-08	2012	0					38.726812	-123.441885	M 10N 14W 08	Section centroid
NEG	1999-04-15	2049	0					38.726812	-123.441885	M 10N 14W 08	Section centroid
NEG	1999-04-21	2226	0					38.726812	-123.441885	M 10N 14W 08	Section centroid
NEG	1999-04-27	2158	0					38.726710	-123.423168	M 10N 14W 09	Section centroid
NEG	1999-04-28	2139	0					38.726710	-123.423168	M 10N 14W 09	Section centroid
NEG	1999-06-03	2327	0					38.726812	-123.441885	M 10N 14W 08	Section centroid
NEG	1999-06-17	2219	0					38.726710	-123.423168	M 10N 14W 09	Section centroid
NEG	2000-03-15	2226	0					38.726812	-123.441885	M 10N 14W 08	Section centroid
NEG	2000-03-21	2109	0					38.726812	-123.441885	M 10N 14W 08	Section centroid
NEG	2000-03-30	2034	0					38.726710	-123.423168	M 10N 14W 09	Section centroid
NEG	2001-03-14	2351	0					38.726710	-123.423168	M 10N 14W 09	Section centroid

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Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	2001-03-15	2032	0					38.726812	-123.441885	M 10N 14W 08	Section centroid
NEG	2001-04-02	0049	0					38.726812	-123.441885	M 10N 14W 08	Section centroid
POS	2001-05-08	2020	1	JM				38.726710	-123.423168	M 10N 14W 09	Section centroid
NEG	2001-05-28	2104	0					38.726812	-123.441885	M 10N 14W 08	Section centroid
NEG	2001-07-19	0139	0					38.726812	-123.441885	M 10N 14W 08	Section centroid
NEG	2001-08-09	0024	0					38.726812	-123.441885	M 10N 14W 08	Section centroid
POS	2002-03-15	2033	1	UM				38.720267	-123.442278	M 10N 14W 08	Contributor
NEG	2002-03-16	1200- 1500	0					38.723439	-123.428175	M 10N 14W 09	Quarter-section centroid
NEG	2002-04-02	2157	0					38.726812	-123.441885	M 10N 14W 08	Section centroid
NEG	2002-04-11	2245	0					38.726710	-123.423168	M 10N 14W 09	Section centroid
NEG	2002-04-30	2317	0					38.726710	-123.423168	M 10N 14W 09	Section centroid
POS	2002-08-30	2110	1	UU				38.729756	-123.453410	M 10N 14W 07	Contributor
POS	2003-03-04	2104	1	UF				38.720267	-123.442278	M 10N 14W 08	Contributor
NEG	2003-03-05	1515- 1730	0					38.723396	-123.437435	M 10N 14W 08	Quarter-section centroid
NEG	2003-03-08	1620- 1820	0					38.716455	-123.437601	M 10N 14W 17	Quarter-section centroid
POS	2003-03-11	2329	1	UF				38.719397	-123.430042	M 10N 14W 16	Contributor
POS	2003-04-01	2107	1	UU				38.725867	-123.436561	M 10N 14W 08	Contributor

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	2003-04-02	1446- 1659	0					38.723396	-123.437435	M 10N 14W 08	Quarter-section centroid
POS	2003-04-08	2022	2	UMUF	Y			38.715288	-123.431643	M 10N 14W 16	Contributor
NEG	2003-04-08	1700- 1930	0					38.723396	-123.437435	M 10N 14W 08	Quarter-section centroid
NEG	2003-04-09	1245- 1520	0					38.730012	-123.436923	M 10N 14W 08	Quarter-section centroid
NEG	2003-05-14	1740- 2032	0					38.723326	-123.441895	M 10N 14W 08	Half-section centroid
NEG	2003-05-15	1643	0					38.726716	-123.427854	M 10N 14W 09	Half-section centroid
POS	2003-05-17	2030	1	UM				38.718356	-123.438234	M 10N 14W 17	Contributor
POS	2003-06-08	2129	1	UU				38.720267	-123.442278	M 10N 14W 08	Contributor
NEG	2003-06-08	1800- 2100	0					38.723396	-123.437435	M 10N 14W 08	Quarter-section centroid
POS	2003-06-09	1955	1	UM				38.730284	-123.435473	M 10N 14W 08	Contributor
POS	2003-06-12	1820	2	UMUF	Y			38.725983	-123.432182	M 10N 14W 09	Contributor
AC	2004-03-20	1205- 1400	2	UMUF	Y			38.726478	-123.430503	M 10N 14W 09	Contributor
POS	2005		2	UMUF	Y			38.726478	-123.430503	M 10N 14W 09	Activity center
POS	2006		1	UM				38.726478	-123.430503	M 10N 14W 09	Activity center
NEG	2007		0					38.726478	-123.430503	M 10N 14W 09	Activity center
POS	2008-04-01	2250	2	AMAF	Y			38.725073	-123.434896	M 10N 14W 08	Contributor
POS	2008-05-19	2014	1	UU				38.730002	-123.427524	M 10N 14W 09	Quarter-section centroid

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
POS	2008-05-21	2311	1	UU				38.730002	-123.427524	M 10N 14W 09	Quarter-section centroid
POS	2009-04-08	0009	1	UU				38.723396	-123.437435	M 10N 14W 08	Quarter-section centroid
POS	2009-04-14	2259	1	UU				38.723396	-123.437435	M 10N 14W 08	Quarter-section centroid
NEG	2009-04-15	1930	0					38.723396	-123.437435	M 10N 14W 08	Quarter-section centroid
NEG	2009-05-18	1830	0					38.726704	-123.437179	M 10N 14W 08	Half-section centroid
POS	2009-05-20	2157	1	UU				38.723396	-123.437435	M 10N 14W 08	Quarter-section centroid
NEG	2010		0					38.726478	-123.430503	M 10N 14W 09	Activity center
NEG	2011	2400	0					38.729756	-123.453410	M 10N 14W 07	Contributor
NEG	2011	2400	0					38.719423	-123.422663	M 10N 14W 16	Contributor
NEG	2011	2400	0					38.713678	-123.425607	M 10N 14W 16	Contributor
NEG	2011	2400	0					38.715288	-123.431643	M 10N 14W 16	Contributor
NEG	2011	2400	0					38.725815	-123.420295	M 10N 14W 09	Contributor
NEG	2011	2400	0					38.731058	-123.447583	M 10N 14W 08	Contributor
NEG	2011-03-07	2139- 2149	0					38.719397	-123.430042	M 10N 14W 16	Contributor
NEG	2011-03-07	2154- 2204	0					38.725867	-123.436561	M 10N 14W 08	Contributor
POS	2011-04-02	1900- 1910	2	UMUF	Y			38.720267	-123.442278	M 10N 14W 08	Contributor
NEG	2011-05-13	2005- 2015	0					38.720267	-123.442278	M 10N 14W 08	Contributor

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	2011-05-15	1730-1900	0					38.726812	-123.441885	M 10N 14W 08	Section centroid
POS	2011-05-15	1945-2000	1	UM				38.724329	-123.429618	M 10N 14W 09	Contributor
NEG	2012	2400	0					38.725815	-123.420295	M 10N 14W 09	Contributor
NEG	2012	2400	0					38.715288	-123.431643	M 10N 14W 16	Contributor
NEG	2012	2400	0					38.713678	-123.425607	M 10N 14W 16	Contributor
NEG	2012	2400	0					38.731058	-123.447583	M 10N 14W 08	Contributor
NEG	2012	2400	0					38.735029	-123.437292	M 10N 14W 05	Contributor
NEG	2012	2400	0					38.725143	-123.447637	M 10N 14W 08	Contributor
NEG	2012	2400	0					38.719423	-123.422663	M 10N 14W 16	Contributor
NEG	2012	2400	0					38.729756	-123.453410	M 10N 14W 07	Contributor
POS	2012-03-05	1935-1945	1	UM				38.724329	-123.429618	M 10N 14W 09	Contributor
NEG	2012-03-06	1912-1922	0					38.719397	-123.430342	M 10N 14W 16	Contributor
POS	2012-03-09	1900-1910	1	UM				38.720267	-123.442278	M 10N 14W 08	Contributor
NEG	2012-04-30	2356-0006	0					38.720267	-123.442278	M 10N 14W 08	Contributor
NEG	2012-07-06	2030-2045	0					38.720267	-123.442278	M 10N 14W 08	Contributor
NEG	2013	2400	0					38.731058	-123.447583	M 10N 14W 08	Contributor
NEG	2013	2400	0					38.719423	-123.422663	M 10N 14W 16	Contributor

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	2013	2400	0					38.715288	-123.431643	M 10N 14W 16	Contributor
NEG	2013	2400	0					38.725815	-123.420295	M 10N 14W 09	Contributor
NEG	2013	2400	0					38.735029	-123.437292	M 10N 14W 05	Contributor
NEG	2013	2400	0					38.729756	-123.453410	M 10N 14W 07	Contributor
NEG	2013	2400	0					38.713678	-123.425607	M 10N 14W 16	Contributor
NEG	2013	2400	0					38.725143	-123.447537	M 10N 14W 08	Contributor
NEG	2013-03-03	2035- 2055	0					38.724329	-123.429618	M 10N 14W 09	Contributor
NEG	2013-03-04	2224- 2234	0					38.725867	-123.436561	M 10N 14W 08	Contributor
NEG	2013-03-04	2209- 2219	0					38.719397	-123.430042	M 10N 14W 16	Contributor
POS	2013-03-09	1830- 1845	1	UU				38.720267	-123.442278	M 10N 14W 08	Contributor
NEG	2013-03-10	1630- 1810	0					38.726812	-123.441885	M 10N 14W 08	Section centroid
NEG	2013-04-21	1930- 2000	0					38.720267	-123.442278	M 10N 14W 08	Contributor
NEG	2013-05-23	0213- 0223	0					38.720267	-123.442278	M 10N 14W 08	Contributor
NEG	2013-05-31	0030- 0040	0					38.720267	-123.442278	M 10N 14W 08	Contributor
POS	2013-06-30	0255- 0305	1	UU				38.720267	-123.442278	M 10N 14W 08	Contributor
NEG	2013-07-04	1030- 1130	0					38.726812	-123.441885	M 10N 14W 08	Section centroid
NEG	2013-07-07	0348- 0358	0					38.720267	-123.442278	M 10N 14W 08	Contributor

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	2014		0					38.726478	-123.430503	M 10N 14W 09	Activity center
POS	2015		1	UU				38.726478	-123.430503	M 10N 14W 09	Activity center
Additional surveys within the search area with no Spotted Owls detected											
NEG	1999-04-12	2345- 2355	0					38.773920	-123.526760	M 11N 15W 27	Contributor
NEG	1999-04-12	2333- 2343	0					38.779090	-123.525610	M 11N 15W 27	Contributor
NEG	1999-07-21	0029- 0039	0					38.773920	-123.526760	M 11N 15W 27	Contributor
NEG	1999-07-21	0017- 0027	0					38.779090	-123.525610	M 11N 15W 27	Contributor
NEG	2000-05-23	0039- 0049	0					38.773920	-123.526760	M 11N 15W 27	Contributor
NEG	2000-05-23	0051- 0101	0					38.779090	-123.525610	M 11N 15W 27	Contributor
NEG	2000-07-13	2314- 2324	0					38.773920	-123.526760	M 11N 15W 27	Contributor
NEG	2000-07-13	2302- 2312	0					38.779090	-123.525610	M 11N 15W 27	Contributor
NEG	2000-07-21	2345- 2355	0					38.773920	-123.526760	M 11N 15W 27	Contributor
NEG	2000-07-21	2333- 2343	0					38.779090	-123.525610	M 11N 15W 27	Contributor
NEG	2001-03-31	2312- 2322	0					38.773920	-123.526760	M 11N 15W 27	Contributor
NEG	2001-03-31	2300- 2310	0					38.779090	-123.525610	M 11N 15W 27	Contributor
NEG	2001-05-24	0021- 0031	0					38.773920	-123.526760	M 11N 15W 27	Contributor
NEG	2001-05-24	0008- 0018	0					38.779090	-123.525610	M 11N 15W 27	Contributor

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	2001-06-23		0					38.773920	-123.526760	M 11N 15W 27	Contributor
NEG	2001-06-23	0011- 0021	0					38.779090	-123.525610	M 11N 15W 27	Contributor
NEG	2002-04-10	0113- 0123	0					38.779090	-123.525610	M 11N 15W 27	Contributor
NEG	2002-04-10	0126- 0136	0					38.773920	-123.526760	M 11N 15W 27	Contributor
NEG	2002-05-14	0147- 0157	0					38.773920	-123.526760	M 11N 15W 27	Contributor
NEG	2002-05-14	0130- 0140	0					38.779090	-123.525610	M 11N 15W 27	Contributor
NEG	2002-06-15	2134- 2144	0					38.773920	-123.526760	M 11N 15W 27	Contributor
NEG	2002-06-15	2152- 2202	0					38.779090	-123.525610	M 11N 15W 27	Contributor
NEG	2003-03-07	2021- 2031	0					38.773920	-123.526760	M 11N 15W 27	Contributor
NEG	2003-03-07	2037- 2047	0					38.779090	-123.525610	M 11N 15W 27	Contributor
NEG	2003-05-14	2159- 2209	0					38.779090	-123.525610	M 11N 15W 27	Contributor
NEG	2003-05-14	2114- 2124	0					38.773920	-123.526760	M 11N 15W 27	Contributor
NEG	2003-06-08	2154- 2204	0					38.779090	-123.525610	M 11N 15W 27	Contributor
NEG	2003-06-08	2207- 2217	0					38.773920	-123.526760	M 11N 15W 27	Contributor
NEG	2004-04-13	0026- 0036	0					38.779090	-123.525610	M 11N 15W 27	Contributor
NEG	2004-04-13	0012- 0022	0					38.773920	-123.526760	M 11N 15W 27	Contributor
NEG	2004-07-01	2303- 2313	0					38.773920	-123.526760	M 11N 15W 27	Contributor

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	2004-07-01	2248- 2258	0					38.779090	-123.525610	M 11N 15W 27	Contributor
NEG	2004-07-09	2127- 2137	0					38.773920	-123.526760	M 11N 15W 27	Contributor
NEG	2004-07-09	2114- 2124	0					38.779090	-123.525610	M 11N 15W 27	Contributor
NEG	2005-06-09	2129- 2139	0					38.773920	-123.526760	M 11N 15W 27	Contributor
NEG	2005-06-09	2115- 2125	0					38.779090	-123.525610	M 11N 15W 27	Contributor
NEG	2005-06-25	2026- 2036	0					38.779090	-123.525610	M 11N 15W 27	Contributor
NEG	2005-06-25	2039- 2049	0					38.773920	-123.526760	M 11N 15W 27	Contributor
NEG	2005-08-27	0030- 0040	0					38.779090	-123.525610	M 11N 15W 27	Contributor
NEG	2005-08-27	0013- 0023	0					38.773920	-123.526760	M 11N 15W 27	Contributor
NEG	2006-04-26	0310- 0320	0					38.773920	-123.526760	M 11N 15W 27	Contributor
NEG	2006-04-26	0331- 0341	0					38.779090	-123.525610	M 11N 15W 27	Contributor
NEG	2006-05-25	0026- 0036	0					38.779090	-123.525610	M 11N 15W 27	Contributor
NEG	2006-05-25	0012- 0022	0					38.773920	-123.526760	M 11N 15W 27	Contributor
NEG	2006-06-03	2043- 2053	0					38.773920	-123.526760	M 11N 15W 27	Contributor
NEG	2006-06-03	2100- 2110	0					38.779090	-123.525610	M 11N 15W 27	Contributor
NEG	2007-03-29	2026- 2036	0					38.773920	-123.526760	M 11N 15W 27	Contributor
NEG	2007-03-29	2039- 2049	0					38.779090	-123.525610	M 11N 15W 27	Contributor

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	2007-04-05	2223- 2233	0					38.779090	-123.525610	M 11N 15W 27	Contributor
NEG	2007-04-05	2235- 2245	0					38.773920	-123.526760	M 11N 15W 27	Contributor
NEG	2007-04-25	0003- 0013	0					38.773920	-123.526760	M 11N 15W 27	Contributor
NEG	2007-04-25	0016- 0026	0					38.779090	-123.525610	M 11N 15W 27	Contributor
NEG	2011	2400	0					38.779407	-123.525176	M 11N 15W 27	Contributor
NEG	2011	2400	0					38.735747	-123.470053	M 10N 14W 06	Contributor
NEG	2011	2400	0					38.765824	-123.521345	M 11N 15W 27	Contributor
NEG	2011	2400	0					38.743910	-123.488826	M 10N 15W 01	Contributor
NEG	2011	2400	0					38.774002	-123.527015	M 11N 15W 27	Contributor
NEG	2011	2400	0					38.740071	-123.480637	M 10N 15W 01	Contributor
NEG	2011	2400	0					38.747637	-123.497208	M 10N 15W 02	Contributor
NEG	2011	2400	0					38.753527	-123.501421	M 11N 15W 35	Contributor
NEG	2012	2400	0					38.740071	-123.480637	M 10N 15W 01	Contributor
NEG	2012	2400	0					38.753527	-123.501421	M 11N 15W 35	Contributor
NEG	2012	2400	0					38.765824	-123.521345	M 11N 15W 27	Contributor
NEG	2012	2400	0					38.743910	-123.488826	M 10N 15W 01	Contributor
NEG	2012	2400	0					38.779407	-123.525176	M 11N 15W 27	Contributor

Type	Date	Time	#Adults	Age/Sex	Pair	Nest	#Young	Latitude DD NAD83	Longitude DD NAD83	MTRS	Coordinate Source
NEG	2012	2400	0					38.747637	-123.497208	M 10N 15W 02	Contributor
NEG	2012	2400	0					38.774002	-123.527015	M 11N 15W 27	Contributor
NEG	2012	2400	0					38.735747	-123.470053	M 10N 14W 06	Contributor
NEG	2013	2400	0					38.743910	-123.488826	M 10N 15W 01	Contributor
NEG	2013	2430	0					38.747637	-123.497208	M 10N 15W 02	Contributor
NEG	2013	2400	0					38.765824	-123.521345	M 11N 15W 27	Contributor
NEG	2013	2400	0					38.774002	-123.527015	M 11N 15W 27	Contributor
NEG	2013	2400	0					38.735747	-123.470053	M 10N 14W 06	Contributor
NEG	2013	2400	0					38.753527	-123.501421	M 11N 15W 35	Contributor
NEG	2013	2400	0					38.740071	-123.480637	M 10N 15W 01	Contributor
NEG	2013	2400	0					38.779407	-123.525176	M 11N 15W 27	Contributor
NEG	2020	2400	0					38.743288	-123.471374	M 10N 14W 06	Contributor
NEG	2020	2400	0					38.746160	-123.480498	M 10N 15W 01	Contributor
NEG	2021	2400	0					38.746160	-123.480498	M 10N 15W 01	Contributor
NEG	2021	2400	0					38.737803	-123.454203	M 10N 14W 06	Contributor
NEG	2021	2400	0					38.734092	-123.463965	M 10N 14W 06	Contributor
NEG	2021	2400	0					38.738683	-123.463061	M 10N 14W 06	Contributor



Botanical Survey Report for the Steam Donkey Timber Harvesting Plan

Prepared by:

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Prepared for:

Gualala Redwood Timber, LLC

July 21, 2023

1. INTRODUCTION

Gualala Redwood Timber, LLC (GRT) is preparing a Timber Harvesting Plan (THP) referred to as the Steam Donkey THP, which is located east of Hwy 1, directly adjoining The Sea Ranch community, in Sonoma County, California (Appendix B, Figure 1).

GRT hired NCRM, Inc. (NCRM) to conduct seasonally appropriate surveys and habitat assessments for special status species potentially occurring within the THP area and along appurtenant roads. The goal was to determine if the project would have any significant adverse environmental impacts on special-status plant species and/or natural communities located within the THP boundary.

2. PROJECT AREA DESCRIPTION

2.1 Location

The project area for the Steam Donkey THP covers 824 acres within the Stewarts Point, McGuire Ridge, Stewarts Point OE W and Gualala USGS 7.5' Quadrangles. The THP units are situated within a Mexican land grant, Rancho German, and can be accessed by Hwy 1 south out of Gualala, California, to three unnamed roads, east of Hwy 1, toward the Gualala Community Services District.

2.2 Topography

The Steam Donkey THP encompasses slopes that face various aspects, but the main slope faces west, with drainages that run east to west and side slopes that face north and south. Elevation within the THP ranges from about 50 to 600 feet above sea level, and slopes range from 0 to 70 percent. The average slope in the planned area is approximately 30 percent.

2.3 Soils and Forest Conditions

The Soil Survey Report for Sonoma County classifies the most prominent soils in the THP as Caspar Sandy Loam, 15-50 percent slopes, Empire Loam 30-50 percent slopes, Hely Silt Loam 30-50 percent slopes, Hugo Loam 30-50 percent slopes, Mendocino Sandy Clay Loam 30-50 percent slopes, Josephine Loam 50-75 percent, Noyo Coarse Sandy Loam, 0-15 percent slopes, Kneeland Loam 9-15 percent slopes, and Rohnerville Loam 9-15 percent slopes.

The THP area can be characterized by generally dense forest cover dominated by redwood, Douglas-fir, grand fir, and bishop-Monterrey pine. The understory is comprised mainly of grasses, salal and huckleberry. However, the higher water table in this area due to the tectonic activity of the San Andreas Fault located in the South Fork Gualala River to the east of the THP, combined with the sandier soils of the Rancho German Land Grant may contribute to the high abundance of wetland, riparian and obligate species within the plan area.

2.4 Land Uses

Currently, the Steam Donkey THP area is primarily used for the harvesting of timberland and associated property maintenance. Harvesting occurs yearly in areas that have not been revisited for approximately 20 years. Previously used roads, landings, and skid trails are opened during harvesting. Mainline roads are generally kept open every year.

3. SURVEY METHODOLOGY

In accordance with the *Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities* (CDFW 2018), meandering, floristic surveys were conducted within the project area on March 31, May 22, May 26, and July 10, 2023, by NCRM Botanist, Laura Moreno, and Botany Technicians, Lhasa Summers and Tori Perrault, totaling 48 survey hours. Early and late-season surveys were performed following California Department of Fish and Wildlife (CDFW) procedures, with emphasis placed on identifying special-status plant species and all plant communities. Survey efforts

involved walking throughout the project area, targeting suitable habitats, including truck roads, skid trails, landings, springs, watercourses, meadows, and areas of unique topography and microclimate. Plants and habitats of questionable importance were revisited to ensure accurate detection and eliminate doubt. Field notes were recorded, and samples were taken to aid plant species identification.

Due to unusually long and cold winter weather prior to the 2023 survey season, false negative results were possible, as plants were less likely to have bloomed as promptly as indicated by scoping lists. All plant species found during surveys were identified to the lowest taxonomic level necessary to determine the presence of special-status plant species using *The Jepson Manual: Vascular Plants of California* (Baldwin 2012) and the *Jepson eFlora* (Jepson Flora Project 2023) for taxonomic nomenclature. Appendix A, Table 2 provides a complete list of plant species observed during 2023 surveys, as well as a few special-status species observed during 2017 surveys for the Cherry THP (THP #1-17-049SON). Plant communities were classified and described using *A Manual of California Vegetation, Online Edition* (MCV) (CNPS 2023). The botanical report for this THP was prepared by Laura Moreno.

3.1 Special Status Scoping

In March 2023, a scoping list of special-status plant species and communities was generated to guide botanical surveys. The list was based on the California Native Plant Society's (CNPS) *Rare Plant Inventory* database and the California Natural Diversity Database (CNDDB), using an 11-quad search parameter, and was revised prior to each survey. The electronic search encompassed Stewarts Point, McGuire Ridge, Gualala, Zeni Ridge, Ornbau Valley, Eureka Hill, Annapolis, Gube Mountain, Saunders Reef, Point Arena, and Plantation 7.5' USGS quads. Of the 66 special status plant species listed, 45 were identified as potentially present within the project area, based on elevation and habitat type. Of the six special status communities listed, one was determined to have the potential to exist within the project area based on CNDDB reports - Coastal and Valley Freshwater Marsh. Appendix A, Table 1 contains this project's special status scoping list.

3.2 Reference Populations

The CNDDB *Rare Find* tool was utilized to locate previously reported rare plant populations in or near the Steam Donkey THP project area. Reference sites were used to observe important plant characteristics and to identify the potential for flower characteristics at the time of the survey. To increase the chances of detecting rare plants in THP areas, reference populations near the THP were visited for species that could potentially occur within the THP. The Botanist utilized all available resources and experience to determine the most likely species to occur. Past THPs that overlapped geographically with the Steam Donkey THP include 1-17-049-SON and 1-10-007-SON. Rare species reported in these reports were visited.

4. RESULTS

The maps in Appendix B depict the locations of rare plants found during the survey as well as the amount of individuals within each site.

Based on the Keeler-Wolf classification system, the primary community present in the Steam Donkey THP most closely resembles the Redwood (*Sequoia sempervirens*, G3, S3.2) Forest and Woodland Alliance, Douglas fir - tanoak (*Pseudotsuga menziesii* - *Notholithocarpus densiflorus*, G3, S3) Forest and Woodland, and Bishop pine - Monterey pine (*Pinus muricata* - *Pinus radiata*, G3, S3.2) Forest and Woodland Alliances. Definitions of global and state ranking status for plant species and communities are listed in Appendix A.

Redwood (*Sequoia sempervirens*) Forest and Woodland Alliance

Sequoia sempervirens is dominant or co-dominant in the tree canopy with *Abies grandis*, *Acer macrophyllum*, *Alnus rubra*, *Arbutus menziesii*, *Chrysolepis chrysophylla*, *Notholithocarpus densiflorus*, *Picea sitchensis*, *Pseudotsuga menziesii*, *Tsuga heterophylla*, and *Umbellularia californica*.

Douglas fir - tanoak (*Pseudotsuga menziesii* - *Notholithocarpus densiflorus*) Forest and Woodland Alliance
Notholithocarpus densiflorus and *Pseudotsuga menziesii* are co-dominant in the tree canopy with *Acer macrophyllum*, *Arbutus menziesii*, *Calocedrus decurrens*, *Chamaecyparis lawsoniana*, *Chrysolepis chrysophylla*, *Pinus lambertiana*, *Pinus ponderosa*, *Quercus chrysolepis*, *Quercus kelloggii*, *Taxus brevifolia* and *Umbellularia californica*.

Bishop pine - Monterey pine (*Pinus muricata* - *Pinus radiata*) Forest and Woodland Alliance
Pinus muricata or *Pinus radiata* is dominant or co-dominant in the tree canopy with *Abies grandis*, *Acer macrophyllum*, *Alnus rhombifolia*, *Arbutus menziesii*, *Hesperocyparis goveniana*, *Hesperocyparis pigmaea*, *Notholithocarpus densiflorus*, *Pinus attenuata*, *Pinus contorta* ssp. *bolanderi*, *Pinus contorta* ssp. *contorta*, *Pinus muricata*, *Pinus radiata*, *Pseudotsuga menziesii*, *Quercus agrifolia*, *Quercus tomentella*, *Quercus wislizeni*, *Salix lasiolepis*, *Salix scouleriana*, *Sequoia sempervirens*, *Tsuga heterophylla* or *Umbellularia californica*.

The midstory layer is primarily composed of huckleberry (*Vaccinium* sp.), manzanita (*Arctostaphylos* sp.), salal (*Gaultheria shallon*), wax myrtle (*Morella californica*), and California rhododendron (*Rhododendron macrophyllum*). Understory is primarily composed of ferns (*Polystichum* sp., *Pteridium aquilinum*, *Blechnum spicant*), brome grasses (*Bromus* sp.), fescue grasses (*Festuca* sp.), sedges (*Carex* sp.), bedstraw (*Galium* sp.), *Iris* sp., honeysuckle (*Lonicera hispidula*), and modesty (*Whipplea modesta*).

Three CNPS-listed plants were identified within the THP, generally along appurtenant roads in 2023 - swamp harebell (*Eastwoodiella californica*, CRPR 1B.2), harlequin lotus (*Hosackia gracilis*, CRPR 4.2), and coast lily (*Lilium maritimum*, CRPR 1B.1). One potentially listed plant was found within the THP - fringed false-hellebore (*Veratrum fimbriatum*, CRPR 4.3). *V. fimbriatum* was found in past THPs and has been reported in the vicinity to iNaturalist but was not yet flowering during surveys. Reported populations will be revisited to confirm identification. Five CNPS-listed plants were observed within and around the THP units and appurtenant roads in 2010 and 2017 - Bolander's reed grass (*Calamagrostis bolanderi*, CRPR 4.2), swamp harebell (*Eastwoodiella californica*, CRPR 1B.2), coast lily (*Lilium maritimum*, CRPR 1B.1), running-pine (*Lycopodium clavatum*, CRPR 4.1), and maple-leaved checkerbloom (*Sidalcea malachroides*, CRPR 4.2).

***E. californica* was observed in 46 locations.** *E. californica* was found in currently established roads/roadsides and skid trails throughout the plan. According to the rare plant inventory report, habitat is described as bogs, fens, closed-cone coniferous forests, coastal prairie, meadows, seeps, marshes, swamps, and North Coast coniferous forest; microhabitat is described as mesic. The current total number of element occurrences in California is 155 and is described as having many occurrences with few plants. Threats include competition, grazing, development, marsh habitat loss, logging, road maintenance, and trampling. It is distinguished from the similar and common species, *Asyneuma prenanthoides*, by the shape of the perianth and the length of the style. It is listed as CRPR 1B.2, G3, S3 special status species by CNPS and CNDDDB. This species is in high abundance within the THP area. This species occurs usually in wetlands and occasionally in non wetlands.

***H. gracilis* was observed in 8 locations.** *H. gracilis* was found in currently established roads and roadsides throughout the plan. According to the rare plant inventory report, habitat is described as broadleaved upland forest, cismontane woodland, closed-cone coniferous forest, coastal bluff scrub, coastal prairie, coastal scrub, marshes, swamps, meadows, seeps, North Coast coniferous forest, valley and foothill grassland; microhabitat are described as wetlands and roadsides. Threats include development, grazing, feral pigs,

habitat alteration, and competition. It is easily identifiable by its pink-purple corolla wings. It is listed as CRPR 4.2, G3G4, S3 special status species by CNPS and CNDDDB. This species may or may not occur in

***L. maritimum* was observed in 27 locations.** *L. maritimum* was found along and within the vicinity of roadsides and older roads and skid trails throughout the plan. According to the rare plant inventory report, habitat is described as broad-leaved upland forest, closed-cone coniferous forest, coastal prairie, coastal scrub, marshes and swamps (freshwater), North Coast coniferous forest; microhabitat is described as roadsides. Threats include urbanization, development, horticultural collecting, logging, grazing, non-native plants, habitat fragmentation, homeless encampments, foot traffic, and recreational activities. It is listed as CRPR 1B.1, G2, S2 special status species by CNPS and CNDDDB.

***V. fimbriatum* was observed in 4 locations.** *V. fimbriatum* was found within watercourses and wet areas in the northern half of the plan. According to the rare plant inventory report, habitat is described as Bogs and fens, Coastal scrub, Meadows and seeps, North Coast coniferous forest; microhabitat is described as mesic areas. Possible threats include logging and associated road usage. It is easily identifiable by its fringed petals. It is listed as a CRPR 4.3, G3, S3 special status species by CNPS and CNDDDB. Note this species was not blooming during surveys, and will need to be confirmed as to whether it is the rare or common species.

No other special status plant species were observed. No Sensitive Natural Communities were found. A complete list of identified plant species can be found in Appendix A, Table 2.

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6. CREDITS

Lhasa Summers, Botany Technician

Lhasa has been assisting with botany surveys at NCRM since April 2022, after receiving her degree from the University of California, Berkeley. As a local of Mendocino County, she has spent the last 15 years botanizing in the area and has also supported NCRM with land stewardship projects, carbon and timber inventories, hazard mitigation efforts, and water quality assessments.

Tori Perrault, Botany Technician

Tori Perrault has worked as a forestry and botany technician throughout the North Coast region of California (including Mendocino, Lake, Humboldt, and Sonoma Counties) under the supervision/direction of NCRM foresters and botanists for over six years.

Laura Moreno, Botanist

NCRM Botanist, Laura Moreno received her B.S. in Wildlife Biology from Texas State University in 2016. She spent 5 years as a botany field technician before moving to California to work for NCRM in March of 2022. Her experience includes botanical assessments/surveys, the use of GIS software to make maps and analyze spatial data, report writing, plant species identification, invasive plant management, and land health assessments. Ms. Moreno has provided numerous botanical assessments that comply with the California Environmental Quality Act (CEQA) for various projects, ranging from small to large timber harvesting plans, fuel reduction projects, and proposed development permits.

APPENDIX A

Definitions For Plant Species and Communities Ranking Status

TABLE 1 - Special Status Plant Species and Communities Scoping List

TABLE 2 - Plant Species Identified During Botanical Surveys

DEFINITIONS FOR PLANT SPECIES AND COMMUNITIES RANKING STATUS

This rare plant assessment addresses the rare native vascular plants of California with known occurrence and distribution in the assessment area. These plants are cataloged on the following lists:

Federally listed or proposed threatened or endangered plants; California State listed or proposed rare, threatened, or endangered plants; California Native Plant Society's (CNPS) Rare Plant Rank 1A: Plants presumed extinct in California and either rare or extinct elsewhere.

The CNPS Rare Plant Ranks:

CNPS Rare Plant Rank 1B: Plants rare, threatened, or endangered in California and elsewhere.

CNPS Rare Plant Rank 2A: Plants presumed extirpated in California, but more common elsewhere)

CNPS Rare Plant Rank 2B: Plants rare, threatened, or endangered in California, but more common elsewhere.

CNPS Rare Plant Rank 3: Plants for which more information is needed.

CNPS Rare Plant Rank 4: Plants of limited distribution (watch list).

The CNPS ranks 3 and 4 plants have little or no protection under CEQA but are included in an effort to help clarify the status of these plants. The classification system, created by the California Native Plant Society, helps distinguish between rarity, endangerment, and distribution.

CNPS Threat Ranks:

0.1 – Seriously threatened in California.

0.2 – moderately threatened in California.

0.3 – the threat ranks do not designate a change of environmental protections.

Global Ranking:

The global rank (G-rank) reflects the overall status of an element throughout its global range. Both Global and subnational ranks are represented by a letter + number score that reflects a combination of rarity, threat, and trend factors with weighting being heavier on rarity than the other two.

Species or Natural Community Level

G1 = Critically Imperiled—At very high risk of extinction due to extreme rarity (often 5 or fewer populations), very steep declines, or other factors.

G2 = Imperiled—At high risk of extinction due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors.

G3 = Vulnerable—At moderate risk of extinction due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors.

G4 = Apparently Secure—Uncommon but not rare; some cause for long-term concern due to declines or other factors.

G5 = Demonstrably Secure—Common; widespread and abundant.

Subspecies Level

Subspecies receive a T-rank attached to the G-rank. With the subspecies, the G-rank reflects the condition of the entire species, whereas the T-rank reflects the global situation of the subspecies or variety.

State Ranking

The state rank (S-rank) is assigned much the same way as the global rank, except state ranks in California often also contain a threat designation attached to the S-rank:

S1 = Less than 6 EOs OR less than 1,000 individuals OR less than 2,000 acres

S1.1 = very threatened

S1.2 = threatened

S1.3 = No current threats known

S2 = 6-20 EOs OR 1,000-3,000 individuals OR 2,000-10,000 acres

S2.1 = very threatened

S2.2 = threatened

S2.3 = No current threats known

S3 = 21-80 EOs or 3,000-10,000 individuals OR 10,000-50,000 acres

S3.1 = very threatened

S3.2 = threatened

S3.3 = No current threats known

S4 = Apparently secure within California; this rank is clearly lower than S3, but factors exist to cause some concern (i.e., there is some threat or somewhat rare habitat)

NO THREAT RANK

S5 = Demonstrably secure to ineradicable in California. NO THREAT RANK.

Table 1 – Special Status Plant Species and Communities Scoping List

July 2023 Stewart's Point, McGuire Ridge, Gualala, Zeni Ridge, Ormbaum Valley, Eureka Hill, Annapolis, Grice Mountain, Saunders Reef, Point Arena, and Plantation 7.5' Quadrangle Maps.

<i>Scientific Name</i> Common Name	CRPR	GRank	SRank	CESA	FFSA	Blooming Period	Habitat	Habitat in Project Area?
<i>Abronia umbellata</i> subsp. <i>breviflora</i> pink sand-verbena	1B.1	G4G5T2	S2	None	None	Jun-Oct	Coastal dunes. 0-10 meters in elevation.	No
<i>Agrostis blasdalei</i> Blasdale's bent grass	1B.2	G2G3	S2	None	None	May-Jul	Coastal bluff scrub, Coastal dunes, Coastal prairie. 0-150 meters in elevation.	No
<i>Allium peninsulare</i> subsp. <i>franciscanum</i> Franciscan onion	1B.2	G5T2	S2	None	None	(Apr) May-Jun	Cismontane woodland, Valley and foothill grassland. Clay, Serpentinite (often), Volcanic. 52-305 meters in elevation.	Maybe
<i>Arctostaphylos nummularia</i> subsp. <i>mendocincensis</i> pygmy marzanita	1B.2	G3?T1	S1	None	None	Jan	Closed-cone coniferous forest (acidic sandy clay). 90-200 meters in elevation.	Maybe
<i>Astragalus agnicidus</i> Humboldt County milk-vetch	1B.1	G2	S2	Endangered	None	Apr-Sep	Broad-leaved upland forest, North Coast coniferous forest. Disturbed areas, Openings, Roadsides (sometimes). 120-800 meters in elevation.	Yes
<i>Astragalus rattanii</i> subsp. <i>rattanii</i> Rattan's milk-vetch	4.3	G4T4	S4	None	None	Apr-Jul	Chaparral, Cismontane woodland, Lower montane coniferous forest. Gravelly, Streambanks. 30-825 meters in elevation.	Yes
<i>Brasenia schreberi</i> watershield	2B.3	G5	S3	None	None	Jun-Sep	Marshes and swamps (freshwater). 0-2200 meters in elevation.	Yes

<i>Calamagrostis bolanderi</i> Bolander's reed grass	4.2	G4	S4	None	None	May-Aug	Bogs and fens. Broad-leaved upland forest, Closed-cone coniferous forest, Coastal scrub, Marshes and swamps (freshwater), Meadows and seeps (mesic), North Coast coniferous forest. Mesic. 0-455 meters in elevation.	Yes
<i>Calochortus uniflorus</i> pink star-tulip	4.2	G4	S4	None	None	Apr-Jun	Coastal prairie, Coastal scrub, Meadows and seeps, North Coast coniferous forest. 10-1070 meters in elevation.	Yes
<i>Calystegia collina subsp. oxyphylla</i> Mt. Saint Helena morning-glory	4.2	G4T3	S3	None	None	Apr-Jun	Chaparral, Lower montane coniferous forest, Valley and foothill grassland. Serpentine. 279-1010 meters in elevation.	No
<i>Calystegia purpurata subsp. saxicola</i> coastal bluff morning-glory	1B.2	G4T2T3	S2S3	None	None	(Mar) Apr-Sep	Coastal bluff scrub, Coastal dunes, Coastal scrub, North Coast coniferous forest. 0-105 meters in elevation.	Yes
<i>Carex californica</i> California sedge	2B.2	G5	S2	None	None	May-Aug	Bogs and fens. Closed-cone coniferous forest, Coastal prairie. Marshes and swamps (margins), Meadows and seeps. 90-335 meters in elevation.	Yes
<i>Carex lyngbyei</i> Lyngbye's sedge	2B.2	G5	S3	None	None	Apr-Aug	Marshes and swamps (brackish, freshwater). 0-10 meters in elevation.	No
<i>Carex saliniformis</i> deceiving sedge	1B.2	G2	S2	None	None	(May) Jun (Jul)	Coastal prairie, Coastal scrub, Marshes and swamps (coastal salt), Meadows and seeps. Mesic. 3-230 meters in elevation.	Yes
<i>Castilleja ambigua subsp. ambigua</i> johnny-nip	4.2	G4T4	S3S4	None	None	Mar-Aug	Coastal bluff scrub, Coastal prairie, Coastal scrub, Marshes and swamps, Valley and foothill grassland, Vernal pools (margins). 0-435 meters in elevation.	Yes
<i>Castilleja ambigua subsp. humboldtiensis</i> Humboldt Bay owl's-clover	1B.2	G4T2	S2	None	None	Apr-Aug	Marshes and swamps (coastal salt). 0-3 meters in elevation.	No

<i>Castilleja latifolia</i> Monterey Coast paintbrush	4.3	G4	S4	None	None	Feb-Sep	Cismontane woodland (openings), Closed-cone coniferous forest, Coastal dunes. Coastal scrub. Sandy. 0-185 meters in elevation.	Yes
<i>Castilleja mendocinensis</i> Mendocine Coast paintbrush	1B.2	G2	S2	None	None	Apr-Aug	Closed-cone coniferous forest, Coastal bluff scrub, Coastal dunes, Coastal prairie, Coastal scrub. 0-160 meters in elevation.	No
<i>Ceanothus gloriosus subsp. exaltatus</i> glory brush	4.3	G4T4	S4	None	None	Mar-Jun (Aug)	Chaparral. 30-610 meters in elevation.	Yes
<i>Ceanothus gloriosus subsp. gloriosus</i> Point Reyes ceanothus	4.3	G4T4	S4	None	None	Mar-May	Closed-cone coniferous forest, Coastal bluff scrub, Coastal dunes, Coastal scrub. Sandy. 5-520 meters in elevation.	No
<i>Ceanothus purpureus</i> holly-leaved ceanothus	1B.2	G2	S2	None	None	Feb-Jun	Chaparral. Cismontane woodland. Rocky. Volcanic. 120-640 meters in elevation.	Yes
<i>Chorizanthe cuspidata subsp. villosa</i> woolly-headed spineflower	1B.2	G2T2	S2	None	None	May-Jul (Aug)	Coastal dunes, Coastal prairie, Coastal scrub. Sandy. 3-60 meters in elevation.	Yes
<i>Chorizanthe valida</i> Sonoma spineflower	1B.1	G1	S1	Endangered	Endangered	Jun-Aug	Coastal prairie (sandy). 10-305 meters in elevation.	Yes
Coastal and Valley Freshwater Marsh	NA	G3	S2.1	None	None	NA	Emergent, suffrutescent herbs adapted to seasonally/ permanently saturated soils.	Yes
Coastal Brackish Marsh	NA	G2	S2.1	None	None	NA	Emergent, suffrutescent herbs adapted to seasonally/ permanently saturated soils.	No

Coastal Terrace Prairie	NA	G2	S2.1	None	None	NA	Comprised of a dense, tall grassland dominated by both sod- and tussock-forming native perennial grasses.	No
<i>Coptis laciniata</i> Oregon goldthread	4.2	G4?	S3?	None	None	(Feb) Mar-May (Sep-Nov)	Meadows and seeps, North Coast coniferous forest (streambanks). Mesic. 0-1000 meters in elevation.	Yes
<i>Cuscuta pacifica subsp. papillata</i> Mendocino dodder	1B.2	G5T1	S1	None	None	(Jun) Jul- Oct	Coastal dunes (interdune depressions). 0-50 meters in elevation.	No
<i>Fastwoodiella californica</i> swamp harebell	1B.2	G3	S3	None	None	Jun-Oct	Bogs and fens, Closed-cone coniferous forest, Coastal prairie, Marshes and swamps (freshwater), Meadows and seeps, North Coast coniferous forest. Mesic. 1-405 meters in elevation.	Yes
<i>Epilobium septentrionale</i> Humboldt County fuchsia	4.3	G4	S4	None	None	Jul-Sep	Broad-leaved upland forest, North Coast coniferous forest. Rocky (sometimes), Sandy (sometimes). 45-1800 meters in elevation.	Yes
<i>Erigeron biolettii</i> streamside daisy	3	G3?	S3?	None	None	Jun-Oct	Broad-leaved upland forest, Cismontane woodland, North Coast coniferous forest. Mesic, Rocky. 30-1100 meters in elevation.	Yes
<i>Erigeron supplex</i> supple daisy	1B.2	G2	S2	None	None	May-Jul	Coastal bluff scrub, Coastal prairie. 10-50 meters in elevation.	No
<i>Erysimum concinnum</i> bluff wallflower	1B.2	G3	S2	None	None	Feb-Jul	Coastal bluff scrub, Coastal dunes, Coastal prairie. 0-185 meters in elevation.	No
<i>Fritillaria roderickii</i> Roderick's fritillary	1B.1	G1Q	S1	Endangered	None	Mar-May	Coastal bluff scrub, Coastal prairie, Valley and foothill grassland. 15-400 meters in elevation.	Yes

<i>Gilia capitata</i> subsp. <i>pacifica</i> Pacific gilia	1B.2	G5T3	S2	None	None	Apr-Aug	Chaparral (openings), Coastal bluff scrub, Coastal prairie, Valley and foothill grassland. 5-1665 meters in elevation.	Yes
<i>Gilia capitata</i> subsp. <i>tomentosa</i> woolly-headed gilia	1B.1	G5T2	S2	None	None	May-Jul	Coastal bluff scrub, Valley and foothill grassland. Outcrops. Rocky, Serpentinite. 10-220 meters in elevation.	Yes
<i>Glehnia littoralis</i> subsp. <i>leiocarpa</i> American glehnia	4.2	G5T5	S2S3	None	None	May-Aug	Coastal dunes. 0-20 meters in elevation.	No
<i>Glyceria grandis</i> American manna grass	2B.3	G5	S3	None	None	Jun-Aug	Bogs and fens, Marshes and swamps (lake margins, streambanks), Meadows and seeps. 15-1980 meters in elevation.	Yes
<i>Hemizonia congesta</i> subsp. <i>tracyi</i> Tracy's tarplant	4.3	G5T4	S4	None	None	(Mar-Apr) May-Oct	Coastal prairie, Lower montane coniferous forest, North Coast coniferous forest. Openings, Serpentinite (sometimes). 120-1200 meters in elevation.	Yes
<i>Hesperovax sparsiflora</i> subsp. <i>brevifolia</i> short-leaved evax	1B.2	G4T3	S3	None	None	Mar-Jun	Coastal bluff scrub (sandy), Coastal dunes, Coastal prairie. 0-215 meters in elevation.	No
<i>Hesperocyparis pygmaea</i> pygmy cypress	1B.2	G1	S1	None	None	NA	Closed-cone coniferous forest (usually podzol-like soil). 30-600 meters in elevation.	No
<i>Horkelia marinensis</i> Point Reyes horkelia	1B.2	G2	S2	None	None	May-Sep	Coastal dunes, Coastal prairie, Coastal scrub. Sandy. 5-755 meters in elevation.	No
<i>Horkelia tenuiloba</i> thin-lobed horkelia	1B.2	G2	S2	None	None	May-Jul (Aug)	Broad-leaved upland forest, Chaparral, Valley and foothill grassland. Mesic, Openings, Sandy. 50-500 meters in elevation.	Yes

<i>Hosackia gracilis</i> harlequin lotus	4.2	G3G4	S3	None	None	Mar-Jul	Broad-leaved upland forest, Cismontane woodland, Closed-cone coniferous forest, Coastal bluff scrub, Coastal prairie, Coastal scrub, Marshes and swamps, Meadows and seeps, North Coast coniferous forest, Valley and foothill grassland, wetlands, Roadsides. 0-700 meters in elevation.	Yes
<i>Hypogymnia schizidiata</i> island tube lichen	1B.3	G2G3	S2	None	None	NA	Chaparral, Closed-cone coniferous forest. On bark and wood of hardwoods and conifers. 360-405 meters in elevation.	No
<i>Iris longipetala</i> coast iris	4.2	G3	S3	None	None	Mar-May (Jtn)	Coastal prairie, Lower montane coniferous forest, Meadows and seeps. Mesic. 0-600 meters in elevation.	Yes
<i>Kopsiopsis hookeri</i> small groundcone	2B.3	G4?	S1S2	None	None	Apr-Aug	North Coast coniferous forest. 90-885 meters in elevation.	Yes
<i>Lasthenia californica subsp. bakeri</i> Baker's goldfields	1B.2	G3T1	S1	None	None	Apr-Oct	Closed-cone coniferous forest (openings), Coastal scrub, Marshes and swamps, Meadows and seeps. 60-520 meters in elevation.	Yes
<i>Lasthenia californica subsp. macrantha</i> perennial goldfields	1B.2	G3T2	S2	None	None	Jan-Nov	Coastal bluff scrub, Coastal dunes, Coastal scrub. 5-520 meters in elevation.	No
<i>Lasthenia conjugens</i> Contra Costa goldfields	1B.1	G1	S1	None	Endangered	Mar-Jun	Cismontane woodland, Playas (alkaline), Valley and foothill grassland, Vernal pools. Mesic. 0-470 meters in elevation.	Yes
<i>Lathyrus palustris</i> marsh pea	2B.2	G5	S2	None	None	Mar-Aug	Bogs and fens, Coastal prairie, Coastal scrub, Lower montane coniferous forest, Marshes and swamps, North Coast coniferous forest. Mesic. 1-100 meters in elevation.	Yes

<i>Leptosiphon aureus</i> bristly leptosiphon	4.2	G4?	S4?	None	None	Apr-Jul	Chaparral, Cismontane woodland, Coastal prairie, Valley and foothill grassland. 55-1500 meters in elevation.	Yes
<i>Leptosiphon latisectus</i> broad-lobed leptosiphon	4.3	G4	S4	None	None	Apr-Jun	Broad-leaved upland forest, Cismontane woodland. 170-1500 meters in elevation.	Yes
<i>Leptosiphon rosaceus</i> rose leptosiphon	1B.1	G1	S1	None	None	Apr-Jul	Coastal bluff scrub. 0-100 meters in elevation.	No
<i>Lilium maritimum</i> coast lily	1B.1	G2	S2	None	None	May-Aug	Broad-leaved upland forest, Closed-cone coniferous forest, Coastal prairie, Coastal scrub, Marshes and swamps (freshwater), North Coast coniferous forest. Roadsides (sometimes). 5-475 meters in elevation.	Yes
<i>Lycopodium clavatum</i> running-pine	4.1	G5	S3	None	None	Jun-Aug (Sep)	Lower montane coniferous forest (mesic), Marshes and swamps, North Coast coniferous forest (mesic). Edges (often), Openings, Roadsides. 45-1225 meters in elevation.	Yes
Mendocino Pygmy Cypress Forest	NA	G2	S2.1	None	None	NA	Closed-cone coniferous forest.	No
<i>Microseris paludosa</i> marsh microseris	1B.2	G2	S2	None	None	Apr-Jun (Jul)	Cismontane woodland, Closed-cone coniferous forest, Coastal scrub, Valley and foothill grassland. 5-355 meters in elevation.	Yes
Northern Coastal Bluff Scrub	NA	G2	S2.2	None	None	NA	Dense shrubs, prostrate to 1-2 meters tall. Typically, on fairly steep, rocky sites exposed to considerable wind and salt spray because of proximity to the ocean.	No

Northern Coastal Salt Marsh	NA	G3	S3.2	None	None	NA	Marshes and swamps. Wetlands.	Yes
<i>Oenothera wolfii</i> Wolf's evening-primrose	1B.1	G2	S1	None	None	May-Oct	Coastal bluff scrub, Coastal dunes, Coastal prairie, Lower montane coniferous forest. Mesic (usually), Sandy. 3-800 meters in elevation.	Yes
<i>Perideridia gairdneri</i> subsp. <i>gairdneri</i> Gairdner's yampah	4.2	G5T3T4	S3S4	None	None	Jun-Oct	Broad-leaved upland forest, Chaparral, Coastal prairie, Valley and foothill grassland, Vernal pools. Vernaly Mesic. 0-610 meters in elevation.	Yes
<i>Piperia candida</i> white-flowered rein orchid	1B.2	G3?	S3	None	None	(Mar-Apr) May-Sep	Broad-leaved upland forest, Lower montane coniferous forest, North Coast coniferous forest. Serpentinite (sometimes). 30-1310 meters in elevation.	Yes
<i>Potamogeton epiphydrus</i> Nuttall's ribbon-leaved pondweed	2B.2	G5	S2S3	None	None	(Jun) Jul-Sep	Marshes and swamps (shallow freshwater). 369-2172 meters in elevation.	No
<i>Sidalcea calycosa</i> subsp. <i>rhizomata</i> Point Reyes checkerbloom	1B.2	G5T2	S2	None	None	Apr-Sep	Marshes and swamps (freshwater, near coast). 3-75 meters in elevation.	Yes
<i>Sidalcea maiachroides</i> maple-leaved checkerbloom	4.2	G3	S3	None	None	(Mar) Apr-Aug	Broad-leaved upland forest, Coastal prairie, Coastal scrub, North Coast coniferous forest, Riparian woodland. Disturbed areas (often). 0-730 meters in elevation.	Yes
<i>Sidalcea malviflora</i> subsp. <i>purpurea</i> purple-stemmed checkerbloom	1B.2	G5T1	S1	None	None	May-Jun	Broad-leaved upland forest, Coastal prairie. 15-85 meters in elevation.	Yes

<i>Sulcaria spiralifera</i> twisted horsehair lichen	1B.2	G3G4	S2	None	None	NA	Coastal dunes (SLO Co.), North Coast coniferous forest (immediate coast). Usually on conifers. 0-90 meters in elevation.	Yes
<i>Trifolium buckwestiorum</i> Santa Cruz clover	1B.1	G2	S2	None	None	Apr-Oct	Broad-leafed upland forest, Cismontane woodland. Coastal prairie margins. Gravelly. 35-610 meters in elevation.	Yes
<i>Trifolium trichocalyx</i> Monterey clover	1B.1	G1	S1	Endangered	Endangcred	Apr-Jun	Closed-cone coniferous forest (burned areas, openings, sandy). 30-305 meters in elevation.	No
<i>Usnea longissima</i> Methuselah's beard lichen	4.2	G4	S4	None	None	NA	Broad-leafed upland forest, North Coast coniferous forest. On tree branches; usually on old-growth hardwoods and conifers. 50-1460 meters in elevation.	Yes
<i>Veratrum fimbriatum</i> fringed false-hellebore	4.3	G3	S3	None	None	Jul-Sep	Bogs and fens, Coastal scrub, Meadows and seeps, North Coast coniferous forest. Mesic. 3-300 meters in elevation.	Yes

Table 2 – Plant Species Identified During Botanical Surveys

*Found during previous surveys

Family	Scientific Name	Common Name
LYCOPHYTES		
Lycopodiaceae – Club Moss Family		
	<i>Lycopodium clavatum*</i> (CRPR 4.1)	running clubmoss
FERNS		
Athyriaceae – Lady Fern Family		
	<i>Athyrium filix-femina</i> subsp. <i>cyclosorum</i>	lady fern
Blechnaceae – Deer Fern Family		
	<i>Struthiopteris spicant</i>	deer fern
	<i>Woodwardia fimbriata</i>	giant chain fern
Dennstaedtiaceae – Bracken Fern Family		
	<i>Pteridium aquilinum</i> subsp. <i>pubescens</i>	bracken fern
Dryopteridaceae – Wood Fern Family		
	<i>Dryopteris arguta</i>	California wood fern
	<i>Polystichum imbricans</i> subsp. <i>imbricans</i>	narrow leaved sword fern
	<i>Polystichum munitum</i>	western swordf fern
Equisetaceae – Horsetail Family		
	<i>Equisetum hyemale</i> subsp. <i>affine</i>	common scouring rush
	<i>Equisetum telmateia</i> subsp. <i>braunii</i>	giant horsetail
Pteridaceae – Brake Fern Family		
	<i>Adiantum aleuticum</i>	five-finger fern
	<i>Pentagramma triangularis</i>	goldenback fern
GYMNOSPERMS		
Cupressaceae – Cypress Family		
	<i>Sequoia sempervirens</i>	coast redwood
Pinaceae – Pine Family		
	<i>Abies grandis</i>	grand fir
	<i>Pinus contorta</i> subsp. <i>contorta</i>	shore pine
	<i>Pinus muricata</i>	Bishop pine
	<i>Pseudotsuga menziesii</i>	Douglas fir
	<i>Tsuga heterophylla</i>	western hemlock
MAGNOLIIDS		
Aristolochiaceae – Pipevine Family		
	<i>Asarum caudatum</i>	wild-ginger
Lauraceae – Laurel Family		
	<i>Umbellularia californica</i>	California bay
EUDICOTS		
Anacardiaceae – Sumac Family		
	<i>Toxicodendron diversilobum</i>	poison oak
Apiaceae – Carrot Family		
	<i>Conium maculatum</i>	poison hemlock
	<i>Daucus pusillus</i>	rattlesnake weed
	<i>Heracleum lanatum</i>	cow parsnip

	<i>Osmorhiza berteroi</i>	sweet cicely
	<i>Sanicula crassicaulis</i>	gamble weed
	<i>Sanicula laciniata</i>	coast sanicle
	<i>Torilis arvensis</i>	japanese hedge parsley
Araliaceae – Ginseng Family		
	<i>Aralia californica</i>	elk clover
Asteraceae – Aster Family		
	<i>Achillea millefolium</i>	yarrow
	<i>Adenocaulon bicolor</i>	trail plant, silver arrow
	<i>Agoseris heterophylla</i>	mountain dandelion
	<i>Anisocarpus madioides</i>	woodland tarweed
	<i>Arnica discoidea</i>	rayless arnica
	<i>Baccharis glutinosa</i>	marsh baccharis
	<i>Baccharis pilularis</i>	coyote brush
	<i>Bellis perennis</i>	English daisy
	<i>Carduus pycnocephalus</i>	italian thistle
	<i>Cirsium vulgare</i>	bull thistle
	<i>Erigeron canadensis</i>	horseweed
	<i>Eriophyllum lanatum</i> subsp. <i>arachnoideum</i>	common wooly sunflower
	<i>Gnaphalium obtusifolium</i>	featherweed
	<i>Hypochaeris radicata</i>	hairy cat's ear
	<i>Leucanthemum vulgare</i>	ox-eye daisy
	<i>Madia sativa</i>	coast tarweed
	<i>Senecio glomeratus</i>	cutleaf burnweed
	<i>Senecio jacobaea</i>	tansy ragwort
	<i>Soliva sessilis</i>	South American soliva
	<i>Sonchus asper</i>	prickly sow thistle
	<i>Tolpis barbata</i>	European milkwort
Berberidaceae – Barberry Family		
	<i>Achlys californica</i>	vanilla leaf
	<i>Yucca planifolia</i>	redwood ivy
Betulaceae – Birch Family		
	<i>Alnus rubra</i>	red alder
	<i>Corylus cornuta</i> subsp. <i>californica</i>	hazelnut
Boraginaceae – Borage Family		
	<i>Adelphia grandis</i>	hound's tongue
	<i>Myosotis discolor</i>	blue scorpion grass
Campanulaceae – Bluebell Family		
	<i>Campanula californica</i> (CRPR 1B.2)	swamp harebell
Caprifoliaceae – Honeysuckle Family		
	<i>Lonicera hispidula</i>	honeysuckle
Caryophyllaceae – Pink Family		
	<i>Cerastium glomeratum</i>	mouse-ear chickweed
Celastraceae – Staff Tree Family		
	<i>Euonymus occidentalis</i>	western burning bush

Ericaceae – Heath Family		
	<i>Arbutus menziesii</i>	madrone
	<i>Arctostaphylos canescens</i> subsp. <i>canescens</i>	hoary manzanita
	<i>Arctostaphylos columbiana</i>	Columbia manzanita
	<i>Chimaphila menziesii</i>	little prince's pine
	<i>Gaultheria shallon</i>	salal
	<i>Rhododendron columbiana</i>	Western Labrador tea
	<i>Rhododendron macrophyllum</i>	California rhododendron
	<i>Vaccinium ovatum</i>	California huckleberry
	<i>Vaccinium parvifolium</i>	red huckleberry
Euphorbiaceae – Spurge Family		
	<i>Croton setiger</i>	turkey mullein
Fabaceae – Pea Family		
	<i>Acmispon americanus</i> subsp. <i>americanus</i>	spanish lotus
	<i>Acmispon parviflorus</i>	deervetch
	<i>Acmispon wrangelianus</i>	Chilean trefoil
	<i>Genista monspessulana</i>	french broom
	<i>Hosackia gracilis</i> (CRPR 4.2)	harlequin lotus
	<i>Hosackia rosea</i>	rose flowered lotus
	<i>Lathyrus vestitus</i> subsp. <i>vestitus</i>	hillside pea
	<i>Lotus corniculatus</i>	birdfoot trefoil
	<i>Lupinus bicolor</i>	miniature lupine
	<i>Thermopsis gracilis</i>	false-lupine
	<i>Vicia americana</i>	american vetch
	<i>Vicia hirsuta</i>	hairy vetch
	<i>Vicia sativa</i> subsp. <i>nigra</i>	narrow-leaved vetch
Fagaceae – Beech Family		
	<i>Chrysolepis chrysophylla</i> subsp. <i>chrysophylla</i>	chinquapin
	<i>Notholithocarpus densiflorus</i> subsp. <i>densiflorus</i>	tan oak
Gentianaceae – Gentian Family		
	<i>Zeltnera davyi</i>	davy's centaury
Geraniaceae – Geranium Family		
	<i>Geranium molle</i>	dove-foot geranium
Grossulariaceae – Gooseberry Family		
	<i>Ribes sanguineum</i> subsp. <i>glutinosum</i>	red-flowering currant
Hypericaceae – St. John's Wort Family		
	<i>Hypericum concinnum</i>	gold-wire
	<i>Hypericum perforatum</i>	klamath weed
Lamiaceae – Mint Family		
	<i>Clinopodium douglasii</i>	yerba buena
	<i>Mentha pulegium</i>	penny royal
	<i>Prunella vulgaris</i> subsp. <i>lanceolata</i>	self-heal
	<i>Stachys ajugoides</i>	hedge nettle

Linaceae - Flax Family		
	<i>Linum bienne</i>	common flax
Lythraceae – Loosestrife Family		
	<i>Lythrum hyssopifolium</i>	loosestrife
Malvaceae – Mallow Family		
	<i>Sidalcea malachroides*</i> (CRPR 4.2)	maple-leaved checkerbloom
Montiaceae – Montia Family		
	<i>Claytonia sibirica</i>	candy flower
Myricaceae – Wax Myrtle Family		
	<i>Morella californica</i>	California wax myrtle
Myrsinaceae – Myrsine Family		
	<i>Lysimachia arvensis</i>	scarlet pimpernel
	<i>Lysimachia latifolia</i>	star flower
Onagraceae – Evening Primrose Family		
	<i>Epilobium ciliatum</i> subsp. <i>ciliatum</i>	northern willow herb
	<i>Epilobium densiflorum</i>	willow herb
Oxalidaceae – Oxalis Family		
	<i>Oxalis oregana</i>	redwood sorrel
Papaveraceae – Poppy Family		
	<i>Eschscholzia californica</i>	California poppy
Philadelphaceae – Mock Orange Family		
	<i>Whipplea modesta</i>	yerba de selva, modesty
Phrymaceae – Lopseed Family		
	<i>Diplacus aurantiacus</i>	sticky monkey-flower
	<i>Erythranthe guttata</i>	common monkeyflower
Plantaginaceae – Plantain Family		
	<i>Digitalis purpurea</i>	foxglove
	<i>Plantago lanceolata</i>	English plantain
	<i>Veronica anagalis-aquatica</i>	water speedwell
Polygalaceae – Milkwort Family		
	<i>Polygala californica</i>	California milkwort
Polygonaceae – Buckwheat Family		
	<i>Rumex acetosella</i>	sheep sorrel
Primulaceae – Primrose Family		
	<i>Primula hendersonii</i>	mosquito bills
Ranunculaceae – Buttercup Family		
	<i>Actaea rubra</i>	baneberry
Rhamnaceae – Buckthorn Family		
	<i>Ceanothus foliosus</i> subsp. <i>foliosus</i>	wavy-leaf ceanothus
	<i>Ceanothus thyrsiflorus</i> subsp. <i>thyrsiflorus</i>	blue blossom
	<i>Ceanothus velutinus</i>	tobacco brush
	<i>Frangula californica</i>	California coffeeberry
Rosaceae – Rose Family		
	<i>Fragaria vesca</i>	wood strawberry
	<i>Rosa gymnocarpa</i>	wood rose

	<i>Rubus leucodermis</i>	western raspberry
	<i>Rubus spectabilis</i>	salmonberry
	<i>Rubus ursinus</i>	California blackberry
Rubiaceae – Madder Family		
	<i>Galium aparine</i>	goose grass
	<i>Galium porrigens</i> subsp. <i>porrigens</i>	climbing bedstraw
	<i>Galium triflorum</i>	sweet-scented bedstraw
Salicaceae – Willow Family		
	<i>Salix hookeriana</i>	Hooker's willow
Saxifragaceae – Saxifrage Family		
	<i>Tiarella trifoliata</i> subsp. <i>unifoliata</i>	lace flower
Scrophulariaceae – Figwort Family		
	<i>Scrophularia californica</i>	California figwort
	<i>Verbascum thapsus</i>	woolly mullein
Solanaceae – Nightshade Family		
	<i>Solanum xanti</i>	nightshade
	<i>Urtica dioica</i> subsp. <i>holosericea</i>	stinging nettle
Valerianaceae – Valerian Family		
	<i>Plectritis congesta</i>	sea blush
Verbenaceae – Vervain Family		
	<i>Verbena lasiostachys</i> subsp. <i>lasiostachys</i>	vervain
Violaceae – Violet Family		
	<i>Viola glabella</i>	stream violet
	<i>Viola sempervirens</i>	evergreen violet
MONOCOTS		
Agavaceae – Century Plant Family		
	<i>Chlorogalum pomeridianum</i>	soaproot
Cyperaceae – Sedge Family		
	<i>Carex brevicaulis</i>	short stem sedge
	<i>Carex harfordii</i>	harford's sedge
	<i>Carex subbracteata</i>	small bract sedge
	<i>Carex viridula</i>	little green sedge
	<i>Cyperus eragrostis</i>	nutsedge
	<i>Eleocharis macrostachya</i>	spikerush
	<i>Scirpus microcarpus</i>	small fruited bulrush
Iridaceae – Iris Family		
	<i>Iris douglasiana</i>	douglas iris
	<i>Iris macrosiphon</i>	ground iris
	<i>Sisyrinchium bellum</i>	blue-eyed grass
Juncaceae – Rush Family		
	<i>Juncus bolanderi</i>	bolander's rush
	<i>Juncus bufonius</i> subsp. <i>bufonius</i>	toad rush
	<i>Juncus effusus</i>	common bog rush
	<i>Juncus hesperius</i>	coast rush
	<i>Juncus patens</i>	common rush

	<i>Luzula comosa</i> subsp. <i>laxa</i>	wood rush
Liliaceae - Lily Family		
	<i>Clintonia andrewsiana</i>	clintonia
	<i>Lilium maritimum</i> (CRPR 1B.1)	coast lily
	<i>Prosartes hookeri</i>	hooker's fairybell
	<i>Scoliopus bigelovii</i>	fetid adders tongue
Melanthiaceae – False-Hellebore Family		
	<i>Toxicoscordion fremontii</i>	death camas
	<i>Trillium ovatum</i>	western trillium
	<i>Veratrum</i> sp. (pending identification)	cornlily
	<i>Xerophyllum tenax</i>	bear-grass
Orchidaceae - Orchid family		
	<i>Calypso bulbosa</i> subsp. <i>occidentalis</i>	calypso orchid
	<i>Corallorhiza maculata</i>	spotted coralroot
	<i>Corallorhiza mertensiana</i>	western coralroot
	<i>Goodyera oblongifolia</i>	rattlesnake-plantain
Poaceae - Grass Family		
	<i>Agrostis hallii</i>	Hall's bent grass
	<i>Aira caryophyllea</i>	silver european hairgrass
	<i>Alopecurus pratensis</i>	meadow foxtail
	<i>Anthoxanthum aristatum</i>	annual vernal grass
	<i>Anthoxanthum occidentale</i>	sweet grass
	<i>Anthoxanthum odoratum</i>	sweet vernal grass
	<i>Avena barbata</i>	slender wild oat
	<i>Briza maxima</i>	big quaking grass
	<i>Bromus sitchensis</i> subsp. <i>carinatus</i>	California brome
	<i>Bromus diandrus</i>	ripgut brome
	<i>Bromus hordeaceus</i>	soft chess
	<i>Bromus laevipes</i>	woodland brome
	<i>Bromus vulgaris</i>	Columbia brome
	<i>Calamagrostis bolanderi</i> * (CRPR 4.2)	Bolander's reedgrass
	<i>Cortaderia jubata</i>	jubata grass
	<i>Cynosurus cristatus</i>	crested dogtail
	<i>Dactylis glomerata</i>	orchard grass
	<i>Danthonia californica</i>	California oatgrass
	<i>Deschampsia cespitosa</i> subsp. <i>cespitosa</i>	hairgrass
	<i>Deschampsia elongata</i>	slender hairgrass
	<i>Elymus glaucus</i> subsp. <i>glaucus</i>	blue wildrye
	<i>Elymus glaucus</i> subsp. <i>virescens</i>	Virginia wildrye
	<i>Festuca arundinacea</i>	tall fescue
	<i>Festuca californica</i>	California fescue
	<i>Festuca microstachys</i>	small fescue
	<i>Festuca myuros</i>	rattail fescue
	<i>Festuca occidentalis</i>	western fescue
	<i>Festuca subuliflora</i>	crinkle-awn fescue

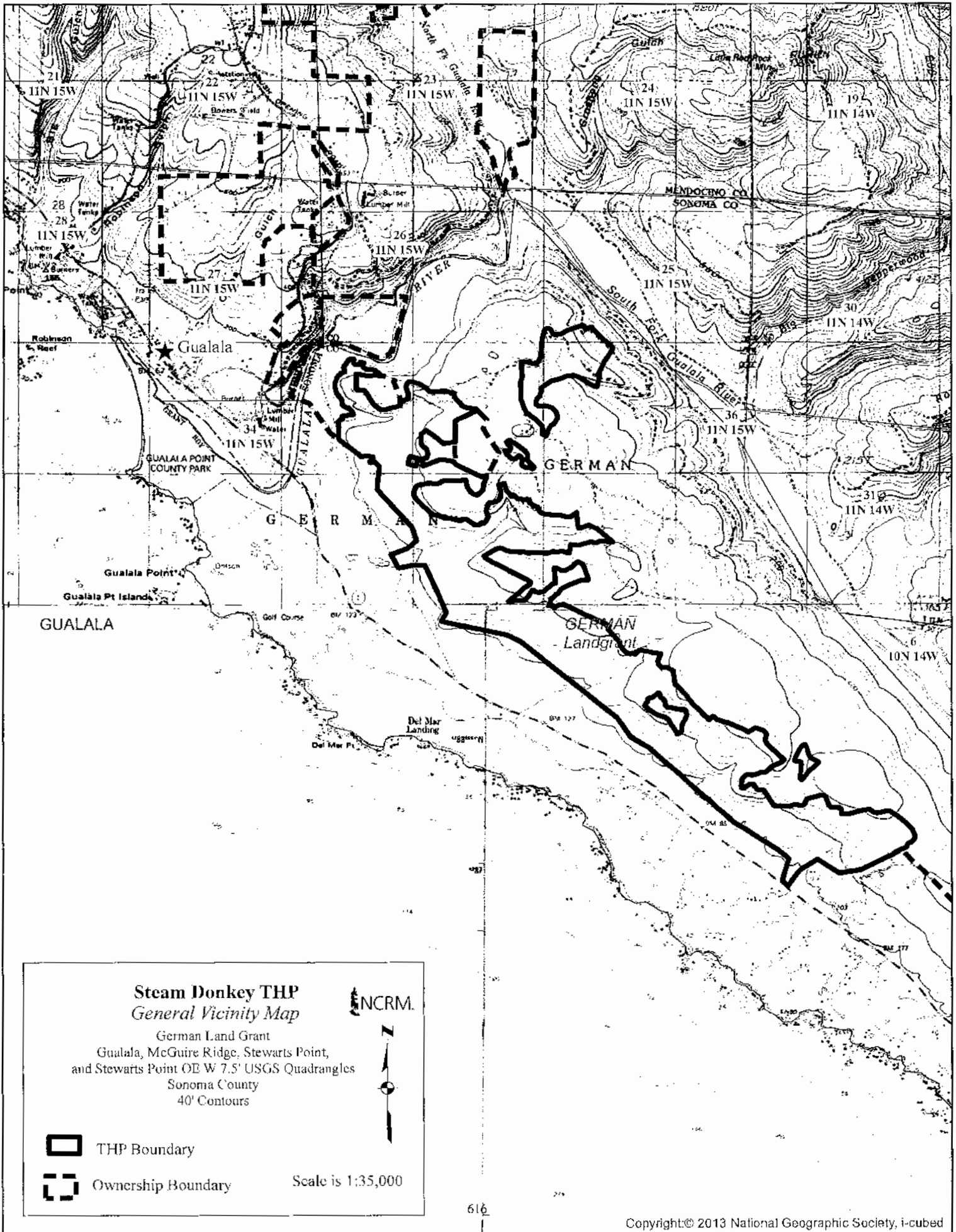
	<i>Gastridium phleoides</i>	nit grass
	<i>Holcus lanatus</i>	common velvet grass
	<i>Phalaris aquatica</i>	harding grass
	<i>Poa annua</i>	annual bluegrass
	<i>Trisetum canescens</i>	smooth trisetum
Ruscaceae – Butcher's-Broom Family		
	<i>Maianthemum racemosum</i>	branched false solomon's seal
	<i>Maianthemum diatatum</i>	western lily of the valley
Themidaceae – Brodiaea Family		
	<i>Brodiaea elegans</i> subsp. <i>elegans</i>	harvest brodiaea
	<i>Dichelostemma ida-maia</i>	firecracker flower

APPENDIX B

VICINITY MAP

BOTANICAL SURVEY AND RARE PLANT LOCATION MAP – NORTH



BOTANICAL SURVEY AND RARE PLANT LOCATION MAP – SOUTH



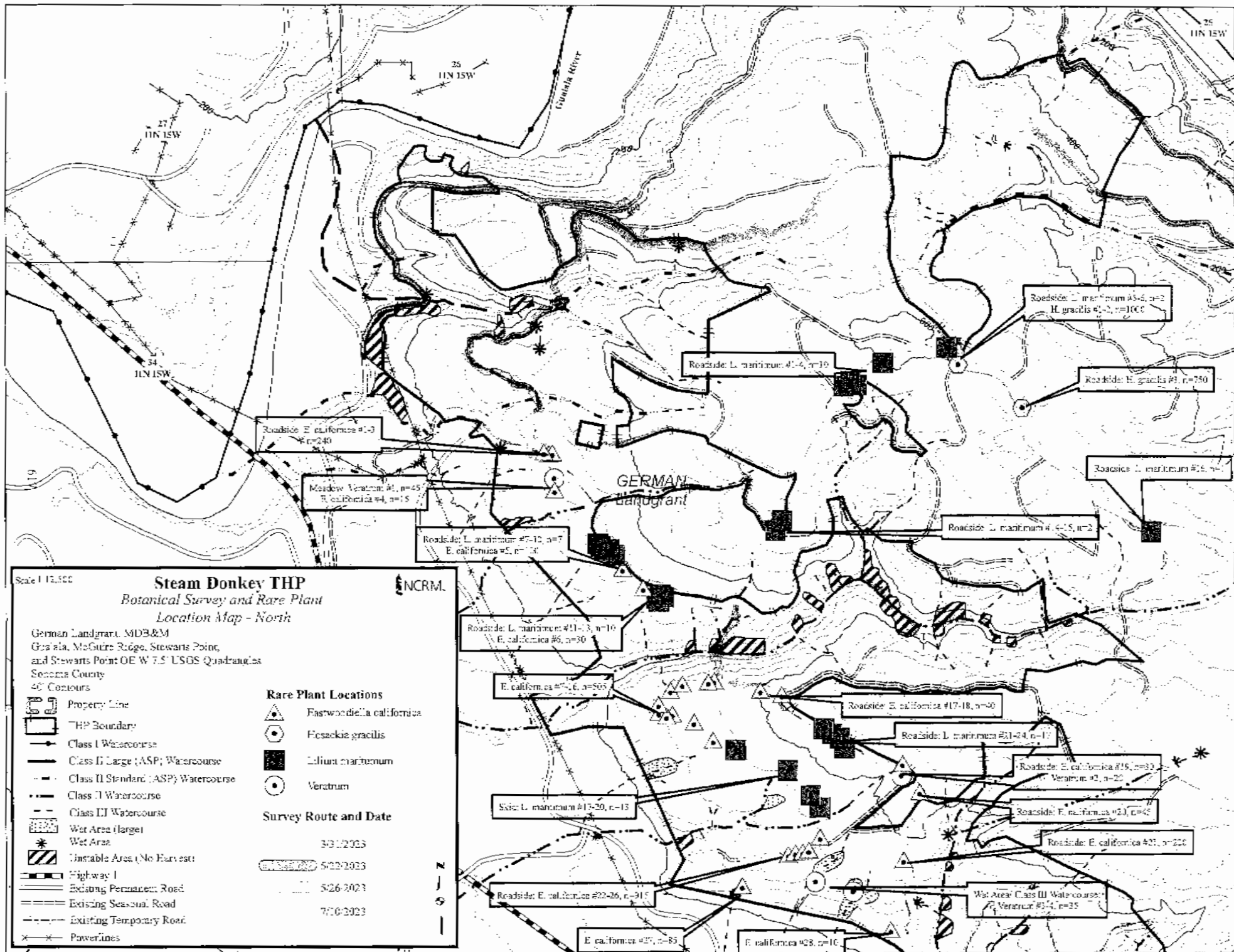
Steam Donkey THP
General Vicinity Map

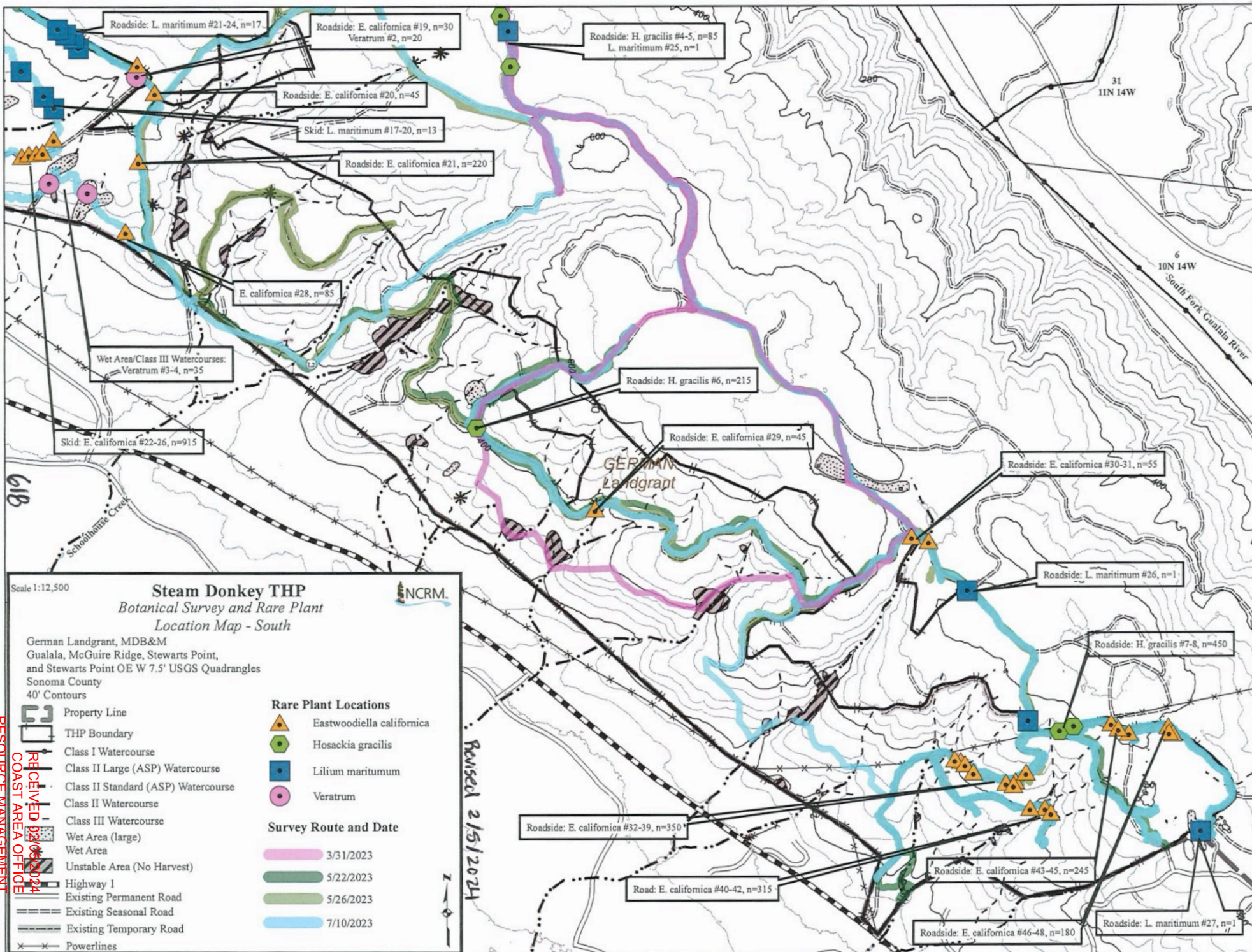
German Land Grant
 Gualala, McGuire Ridge, Stewarts Point,
 and Stewarts Point OE W 7.5' USGS Quadrangles
 Sonoma County
 40' Contours



-  THP Boundary
-  Ownership Boundary

Scale is 1:35,000





RECEIVED 02/06/2024
COAST AREA OFFICE
RESOURCE MANAGEMENT

Revised 2/5/2024

Gualala Redwood Timber, LLC.



Wildlife Photo # 950
PW 6/4/2002
Project PID 0
Map Pt 0 Road 0 Mi. 0
Old New
Creek Cr Dist 0
Ref 0 LWD Site Tag# 0
Monitoring 0
Here is a coast lily which has colonized a heavily used landing. Additional individual coast lilies are also present on the landing.

People in Photo:

F:\GRI Photos\Small\950 lilly DCP_0167.JPG



Wildlife Photo # 949
PW 6/4/2002
Project Del Mar PID 0
Map Pt 0 Road 0 Mi. 0
Old New
Creek Cr Dist 0
Ref 0 LWD Site Tag# 0
Monitoring 0
This burn pile has a coast lily in it.

People in Photo:

F:\GRI Photos\Small\949 lilly DCP_0178.JPG

PART OF PLAN



Wildlife Photo # 948
 PW 6/4/2002
 Project Del Mar PID 0
 Map Pt 0 Road 0 Mi. 0
 Old New
 Creek Cr Dist 0
 Ref 0 LWD Site Tag# 0
 Monitoring 0

This is a coast lily with swamp harebell growing below it. These plants are growing in the center of an old burn pile. This clearcut was tractor piled and burned then sprayed with a broad spectrum herbicide. While no lilies or swamp harebell were observed within this unit prior to harvest, they are now scattered throughout the unit.

People in Photo:

F:\GRI Photos\Small\948 lilly DCP_0179.JPG



Wildlife Photo # 951
 PW 6/4/2002
 Project PID 0
 Map Pt 0 Road 0 Mi. 0
 Old New
 Creek Cr Dist 0
 Ref 0 LWD Site Tag# 0
 Monitoring 0

Here is a coast lily which has colonized a heavily used landing. Additional individual coast lilies are also present on the landing.

People in Photo:

F:\GRI Photos\Small\951 lilly DCP_0170.JPG



Wildlife Photo # 1085
 PW 8/6/2002
 Project PID 0
 Map Pt 0 Road 0 Mi. 0
 Old New
 Creek Cr Dist 0
 Ref 0 LWD Site Tag# 0
 Monitoring 0

Although difficult to discern in this photo, here are coast lilies thriving in a spoils mound.

People in Photo:

F:\GRI Photos\Small\1085 DCP_0180 lilly.JPG

PART OF PLAN



Wildlife Photo # 1083
 PW 8/6/2002
 Project PID 0
 Map Pt 0 Road 0 Mi. 0
 Old New
 Creek Cr Dist 0
 Ref 0 LWD Site Tag# 0
 Monitoring 0
 Here are coast lilies which appeared in a roadside opening.

People in Photo:

F:\GRI Photos\Small\1083 DCP_0176lily.jpg



Wildlife Photo # 846
 PW 9/1/2001
 Project Middlegate PID 2072
 Map Pt 0 Road 1.631141 Mi. 0.18
 Old New
 Creek Cr Dist 0
 Ref 0 LWD Site Tag# 0
 Monitoring 0

This clearcut was tractor piled and burned, broadcast treated with herbicides then planted. While no coast lilies were observed within this unit prior to harvest, they are scattered throughout the unit now. Bolander's reed grass and swamp harebell are also present in this unit. (also refer to photos #4790 and #4791)

People in Photo:

John Bennett

F:\GRI Photos\Small\846 herb lilly lmg28.jpg



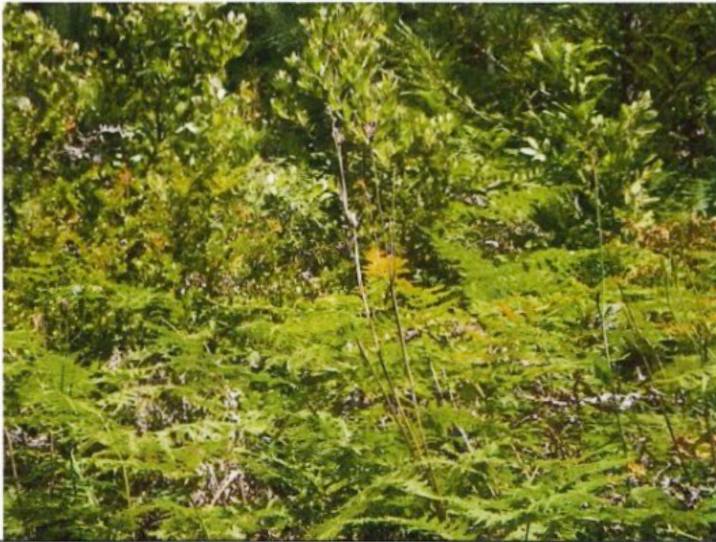
Wildlife Photo # 4790
 PW 7/6/2009
 Project Middlegate PID 2072
 Map Pt 0 Road 1.631141 Mi. 0.18
 Old New
 Creek Cr Dist 0
 Ref 0 LWD Site Tag# 0
 Monitoring 0

Coast Lily is still present in a Middlegate clearcut (ref. photo #846). Competition is beginning to reduce the numbers of lilies.

People in Photo:

F:\GRI Photos\Small\Bigger\4790 IMG0154.JPG

PART OF PLAN



Wildlife Photo # 4789
PW 7/6/2009
Project Middlegate PID 2072
Map Pt 0 Road 1.631141 Mi. 0.18
Old New
Creek Cr Dist 0
Ref 0 LWD Site Tag# 0
Monitoring 0
Coast Lily in a Middlegate clearcut

People in Photo:

F:\GRI Photos\Small\Bigger\4789 IMGP0153.JPG



Wildlife Photo # 4788
PW 7/6/2009
Project Middlegate PID 2072
Map Pt 0 Road 1.631141 Mi. 0.18
Old New
Creek Cr Dist 0
Ref 0 LWD Site Tag# 0
Monitoring 0
Coast Lily in a Middlegate clearcut

People in Photo:

F:\GRI Photos\Small\Bigger\4788 IMGP0152.JPG

PART OF PLAN

GUALALA REDWOODS, INC.

39951 Old Stage Road
P.O. Box 197
Gualala, CA. 95445
Telephone (707) 884-3521
Fax (707) 884-1942

July 2, 2002

Mr. William Snyder
California Department of Forestry
And Fire Protection
135 Ridgway Ave.
Santa Rosa, CA. 95401

Subject: Rare plant monitoring report for THP 1-97-376-SON
(Del Rancho THP, GRI)

Dear Mr. Snyder:

A requirement for THP 1-97-376-SON is the monitoring of rare plant retention areas for three years following completion of operations.

On June 24 I conducted the monitoring survey for the 18 retention areas specified in the Del Rancho THP. The survey was seasonally appropriate.

The attached maps show the retention area locations for the following species:

Coast lily (Lilium maritimum). locations "L1"- "L14".

Swamp harebell (Campanula californica). Locations "C1" and "C2".

Maple-leaved checkerbloom (Sidalcea malachroides). Location "S1".

Point Reyes checkerbloom (Sidalcea calycosa). Location "P1".

618.5

APP. 2/20/2024
RECEIVED 02/28/2024
COAST AREA OFFICE
RESOURCE MANAGEMENT

PART OF PLAN

The following are the results of the survey:

Coast lily

Location	# Mature (flower)	# Mature (fruit)	# Mature (browse)	# Seedling
L1	11	3	13	33
L2			1	2
L3	17		4	73
L4	8		8	42
L5	10		20	2
L6	1		1	2
L7	1		1	
L8	24	18	14	58
L9	1			
L10	SEE NOTE			
L11	13		3	20
L12	5	1	1	
L13	SEE NOTE			
L14	9	1	4	3

Note: No coast lily were observed at locations L10 and L13.

General observations at coast lily locations:

L1- Habitat conditions are relatively unchanged from last year. The amount of salal covering the ground is slightly increased. Number of individuals has increased. Calamagrostis bolanderi is still present.

L2- This area appears unchanged from last year.

L3- This area is slightly brushier than last year. Calamagrostis bolanderi is still present.

L4- This area appears unchanged from last year. Calamagrostis bolanderi is still present.

L5- This area appears unchanged from last year. Calamagrostis bolanderi is still present.

L6- This area is slightly brushier than last year. Calamagrostis bolanderi is still present.

L7- This area appears unchanged from last year. Calamagrostis bolanderi and Campanula californica are still present.

618.6

ADD. 2/20/2024
RECEIVED 02/23/2024
COAST AREA OFFICE
RESOURCE MANAGEMENT

PART OF PLAN

L8- This area is much brushier than last year. Calamagrostis bolanderi and Campanula californica are still present.

L9- The ground cover at this location is dense. The single individual may not be able to seed successfully. Calamagrostis bolanderi and Campanula californica are still present.

L10- Two dead stems from previous years plants were located. No individuals from 2002. This area is very brushy. Calamagrostis bolanderi and Campanula californica are still present.

L11- This area appears unchanged from last year. Calamagrostis bolanderi is still present.

L12- This area is much brushier. Very dense salal and evergreen huckleberry. Calamagrostis bolanderi and Campanula californica are still present.

L13- No individuals located in 2002. This area has overgrown with ferns, berries, salal, evergreen huckleberry and wax myrtle. Campanula californica is still present.

L14- This area is much brushier than last year. The area is overgrown with ferns, salal, evergreen huckleberry, azeala and grasses. A clump of residual trees has fallen over the retention area.

Swamp harebell

Location C1- Harebell is still present and thriving. The plants were flowering. The habitat is relatively unchanged. The mat has expanded on the eastern edge (30 feet x 30 feet) by spreading onto a tractor skid trail used during the harvest. The mat is approximately 120 feet x 50 feet. Calamagrostis bolanderi is still present.

Location C2- Harebell is still present and thriving. The plants were flowering. The area contains slightly more grass. The mat still fills the retention area. The mat is approximately 80 feet x 45 feet.

618.7

APP. 2/20/2024
RECEIVED 02/23/2024
COAST AREA OFFICE
RESOURCE MANAGEMENT

PART OF PLAN

Maple-leaved checkerbloom

Location S1- This area is much brushier than last year. No checkerblooms were located this year. It appears that the plants have been overgrown.

Point Reyes checkerbloom

Location P1- No change from last year. No checkerbloom located this year.

Should you have any questions, you may call me at (707) 884-3469.

Sincerely,

John R. Bennett, RPF #2650
Gualala Redwoods, Inc.

618.8

ADD. 2/20/2024
RECEIVED 02/23/2024
COAST AREA OFFICE
RESOURCE MANAGEMENT

PART OF PLAN

GUALALA REDWOODS, INC.

39951 Old Stage Road
P.O. Box 197
Gualala, CA. 95445
Telephone (707) 884-3521
Fax (707) 884-1942

June 19, 2003

Mr. William Snyder
California Department of Forestry
And Fire Protection
135 Ridgway Ave.
Santa Rosa, CA. 95401

Subject: Rare plant monitoring report for THP 1-97-376-SON
(Del Rancho THP, GRI)

Dear Mr. Snyder:

A requirement for THP 1-97-376-SON is the monitoring of rare plant retention areas for three years following completion of operations.

On June 18, 2003, I conducted the monitoring survey for the 18 retention areas specified in the Del Rancho THP. The survey was seasonally appropriate.

The attached maps show the retention area locations for the following species:

Coast lily (Lilium maritimum). locations "L1"- "L14".

Swamp harebell (Campanula californica). Locations "C1" and "C2".

Maple-leaved checkerbloom (Sidalcea malachroides). Location "S1".

Point Reyes checkerbloom (Sidalcea calycosa). Location "P1".

618.9

ADD. 2/20/2024
RECEIVED 02/23/2024
COAST AREA OFFICE
RESOURCE MANAGEMENT

PART OF PLAN

The following are the results of the survey:

Coast lily

Location	# Mature (flower)	# Mature (fruit)	# Mature (browse)	# Seedling
L1	5	2	8	32
L2	1			2
L3	27		5	72
L4	18		10	57
L5	14		8	7
L6	2		1	
L7	2			
L8	35	22	21	34
L9		1	1	
L10	1			
L11	15		2	19
L12	5			
L13		1		
L14	17	1	3	

General observations at coast lily locations:

L1- Habitat conditions are relatively unchanged from last year. The amount of salal covering the ground is slightly increased, but the area is still fairly open. Number of mature individuals has decreased. This area appears to be heavily browsed. Calamagrostis bolanderi was not observed during this survey.

L2- This area appears unchanged from last year.

L3- This area is slightly brushier than last year. The manzanita in this area is taller but ground level is still fairly open. Calamagrostis bolanderi is still present.

L4- Approximately one half of this area appears unchanged from last year. The other half is significantly brushier. Calamagrostis bolanderi is still present.

L5- This area appears much brushier from last year. In some cases, last years lily stem could be seen emerging from the dense salal but no vegetative lily from this year's growth could be found. Calamagrostis bolanderi is still present.

L6- This area is slightly brushier than last year. Calamagrostis bolanderi was not observed during this survey.

618.10

ADD 2/20/2024
RECEIVED 02/23/2024
COAST AREA OFFICE
RESOURCE MANAGEMENT

PART OF PLAN

L7- This area appears slightly brushier than last year. Calamagrostis bolanderi and Campanula californica are still present.

L8- This area is relatively unchanged in regards to the brush layer, however the grasses are much thicker than last year. Calamagrostis bolanderi and Campanula californica are still present. This area is located in a PG&E right-of-way. New flagging and paint on trees applied by PG&E representatives seem to indicate this area is targeted for tree removal and/or right-of-way clearing.

L9- The ground cover at the location of the original plant is dense. A second mature individual has emerged approximately 20 feet away from the original plant in an area which is bare of ground cover. Calamagrostis bolanderi and Campanula californica are still present. Three mature lily plants that have not been observed in previous years are now present 50-100 feet west of the retention area along the haul road.

L10- This area is very brushy. A single mature plant was located this season. Calamagrostis bolanderi and Campanula californica are still present.

L11- This area appears slightly brushier than last year. Calamagrostis bolanderi is still present.

L12- This area is pretty much overgrown with very dense salal and evergreen huckleberry. Calamagrostis bolanderi and Campanula californica are still present.

L13- One individual was located in 2003. This area has overgrown with ferns, berries, salal, evergreen huckleberry and wax myrtle. Campanula californica is still present.

L14- This area is much brushier than last year. The area is overgrown with ferns, salal, evergreen huckleberry, azalea and grasses. A clump of residual trees has fallen over the retention area. Calamagrostis bolanderi and Campanula californica are present. There are now 5+ mature lily plants and several mats of swamp harebell located outside the retention area.

618.11

APR 2/20/2024
RECEIVED 02/23/2024
COAST AREA OFFICE
RESOURCE MANAGEMENT

PART OF PLAN

Swamp harebell

Location C1- Harebell is still present and thriving. The plants were flowering. The habitat is relatively unchanged. The mat has continued to expand outside the retention area by spreading along a tractor skid trail used during the harvest. Several individual mats were observed further along the skid trail system well away from the retention area. Calamagrostis bolanderi is still present.

Location C2- Harebell is still present and thriving. The plants were flowering. The habitat is similar to last year. The mat still fills the retention area and has spread approximately 10 feet to the north and approximately 20 feet to the west, invading a landing used during the harvest. The mat is now approximately 100 feet x 55 feet.

Maple-leaved checkerbloom

Location S1- This area is overgrown with brush. No checkerblooms were located this year. It appears that the plants have been overgrown.

Point Reyes checkerbloom

Location P1- No change from last year. No checkerbloom located this year.

Should you have any questions, you may call me at (707) 884-3469.

Sincerely,

John R. Bennett, RPF #2650
Gualala Redwoods, Inc.

618.12

ADD. 2/20/2024
RECEIVED 02/23/2024
COAST AREA OFFICE
RESOURCE MANAGEMENT

PART OF PLAN

GUALALA REDWOODS, INC.

39951 Old Stage Road
P.O. Box 197
Gualala, CA. 95445
Telephone (707) 884-3521
Fax (707) 884-1942

June 28, 2004

Ms. Leslie Markham
California Department of Forestry
And Fire Protection
135 Ridgway Ave.
Santa Rosa, CA. 95401

Subject: Rare plant monitoring report for THP 1-97-376-SON (Del Rancho THP, GRI)

Dear Ms. Markham:

A requirement for THP 1-97-376-SON is the monitoring of rare plant retention areas for three years following completion of operations.

On June 24, 2004, I conducted the final monitoring survey for the 18 retention areas specified in the Del Rancho THP. The survey was seasonally appropriate.

This survey completes the three year monitoring requirement of the THP. I look forward to reading the assessment and conclusions derived from the data provided. When the Responsible Agency has completed the assessment, please forward a copy to our office.

Should you have any questions, you may call me at (707) 884-3469.

Sincerely,

John R. Bennett, RPF #2650
Gualala Redwoods, Inc.

618.13

ADD. 2/20/2024

RECEIVED 02/23/2024
COAST AREA OFFICE
RESOURCE MANAGEMENT

PART OF PLAN

The following maps show the retention area locations for these species:

Coast lily (*Lilium maritimum*). locations "L1"- "L14".

Swamp harebell (*Campanula californica*). Locations "C1" and "C2".

Maple-leaved checkerbloom (*Sidalcea malachroides*). Location "S1".

Point Reyes checkerbloom (*Sidalcea calycosa*). Location "P1".

618.14

ADD. 2/20/2024

RECEIVED 02/23/2024
COAST AREA OFFICE
RESOURCE MANAGEMENT

PART OF PLAN

The following are the results of the survey:

Coast lily

Location	# Mature (flower)	# Mature (fruit)	# Mature (browse)	# Seedling
L1	3	13	3	32
L2	1	1	0	1
L3	3	16	6	81
L4	6	15	4	83
L5	10	8	5	15
L6	1	1	2	0
L7	1	0	0	0
L8	0	0	0	0
L9	0	1	0	1
L10	0	1	0	0
L11	5	3	7	16
L12	0	1	6	0
L13	0	0	0	0
L14	1	1	2	0

General observations at coast lily locations:

L1- Habitat conditions are relatively unchanged from last year. The amount of salal covering the ground is slightly increased, but the area is still fairly open. Calamagrostis bolanderi was observed during this survey.

L2- This area appears unchanged from last year.

L3- This area is slightly brushier than last year. Tall manzanita shades much of the area. Ground level is still fairly open. Calamagrostis bolanderi is still present.

L4- This area appears unchanged from last year. Calamagrostis bolanderi is still present.

L5- Once again, this area appears much brushier from last year. In some cases, last years lily stem could be seen emerging from the dense salal but no vegetative lily from this year's growth could be found. Calamagrostis bolanderi is still present.

L6- This area appears similar to last year. Calamagrostis bolanderi was not observed during this survey.

L7- This area appears slightly brushier than last year. Calamagrostis bolanderi and Campanula californica are still present.

L8- As noted last year, this retention area was located in a PG&E right-of-way. PG&E has cleared the right-of-way. The boundaries of this retention area can no longer be determined. The previously existing trees and brush have been removed and/or slashed to ground level. The slash was left to cover the whole area. Huckleberry, hardwoods, grasses and other herbaceous plants have resprouted to 1-3 feet. In the general area of the

618.15

ADD. 2/20/2024

RECEIVED 02/23/2024
COAST AREA OFFICE
RESOURCE MANAGEMENT

PART OF PLAN

previous retention area; coast lily, Bolander's reed grass and swamp harebell are still present. Because the boundaries could not be determined, no attempt was made to survey the populations.

L9- This area appears similar to last year. Calamagrostis bolanderi and Campanula californica are still present. Lilies are still present 50-100 feet west of the retention area along the haul road.

L10- This area is very brushy. A single mature plant was located this season. Calamagrostis bolanderi and Campanula californica are still present. The Campanula is reduced to a mat approximately 1' x 1' and appears to be losing out to the brush.

L11- This area appears brushier than last year. Tanoak and huckleberry brush have almost completely shaded out what has been the largest concentration of lilies. The majority of plants observed were limp and falling over. Much less vigorous as compared to other retention areas where the lilies are free to grow in the sun. Calamagrostis bolanderi is still present.

L12- This area is pretty much overgrown with very dense salal and evergreen huckleberry. The original area was approximately 60' long with individuals distributed throughout. Now the remaining plants are restricted to an area approximately 3' x 3' where the brush is thinnest. Calamagrostis bolanderi and Campanula californica are still present right along the edge of the road.

L13- This area has completely overgrown with ferns, berries, salal, evergreen huckleberry and wax myrtle. No lilies were observed this year. Campanula californica was also not observed.

L14- This area is completely brushed over. The area is overgrown with ferns, salal, evergreen huckleberry, azalea and grasses. Considerable time was spent surveying but only 4 individual lilies could be located compared to last year's 21. Calamagrostis bolanderi and Campanula californica are still present on the very edge of the retention area near a skid trail used during the harvest. Lily plants and several mats of swamp harebell are still located outside the retention area.

Swamp harebell

Location C1- Campanula californica could not be located within the flagged retention area. This area is overgrown with huckleberry, iris, grasses and other herbaceous species. Harebell is still present on the skidtrail used during operations and continues to spread. Several individual mats were observed further along the skid trail system well away from the retention area. Bolander's reed grass is present in the area and common throughout the harvest unit.

Location C2- The flagged retention area is almost completely covered with huckleberry, black berries, wax myrtle, grasses and other herbaceous species. The Campanula population is declining. Isolated individuals are still emerging through the brush and rare open areas. Campanula is still appearing in cleared areas outside of the retention area.

618.16

ADD. 2/20/2024

RECEIVED 02/23/2024
COAST AREA OFFICE
RESOURCE MANAGEMENT

PART OF PLAN

Maple-leaved checkerbloom

Location S1- No changes from last year. This area is overgrown with brush. No checkerblooms were located this year. It appears that the plants have been overgrown.

Point Reyes checkerbloom

Location P1- No changes from last year. No checkerbloom located this year.

618.17

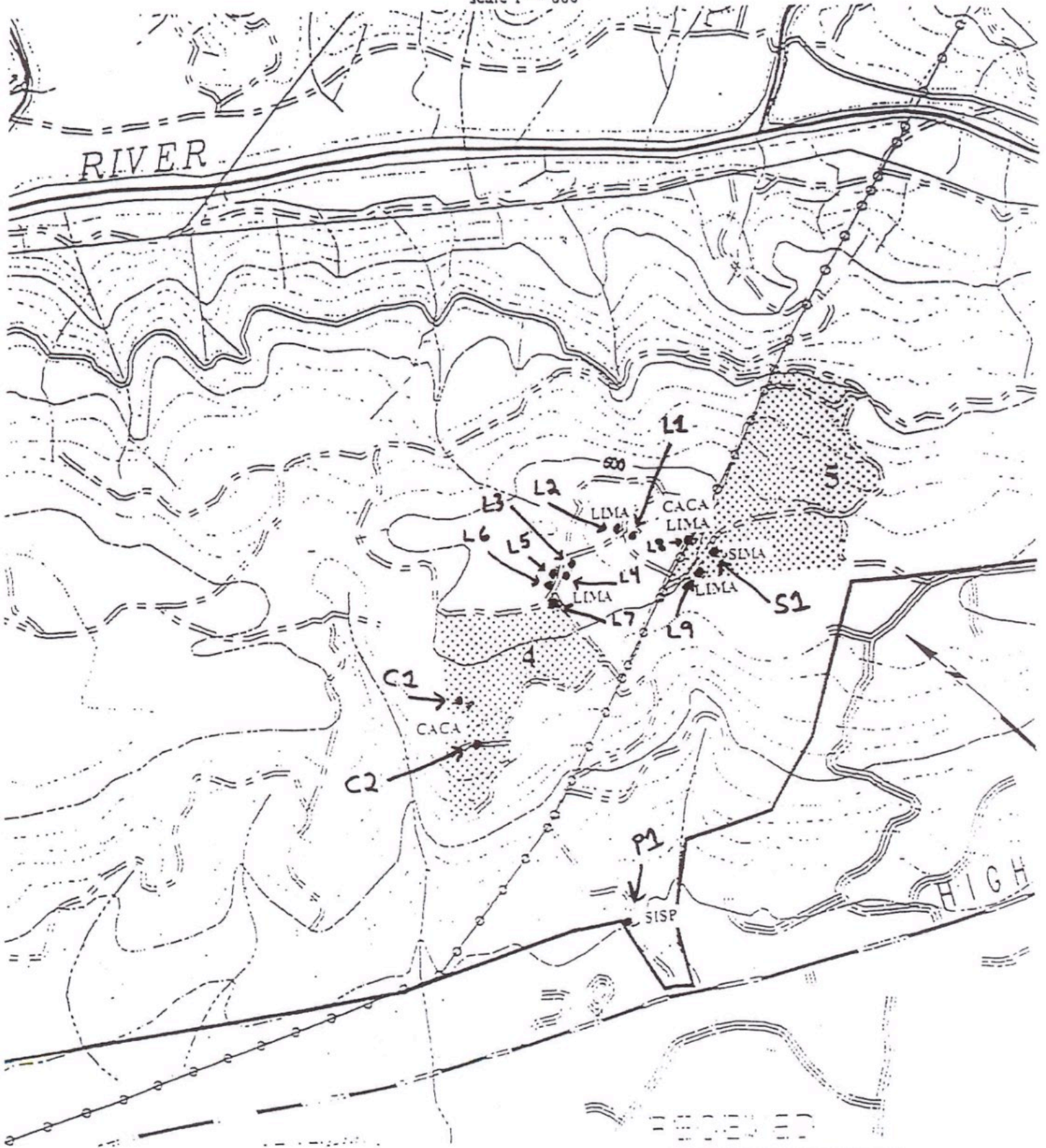
ADD. 2/20/2024

RECEIVED 02/23/2024
COAST AREA OFFICE
RESOURCE MANAGEMENT

PART OF PLAN

Figure 3: BOTANICAL RETENTION AREAS

scale 1" = 880'

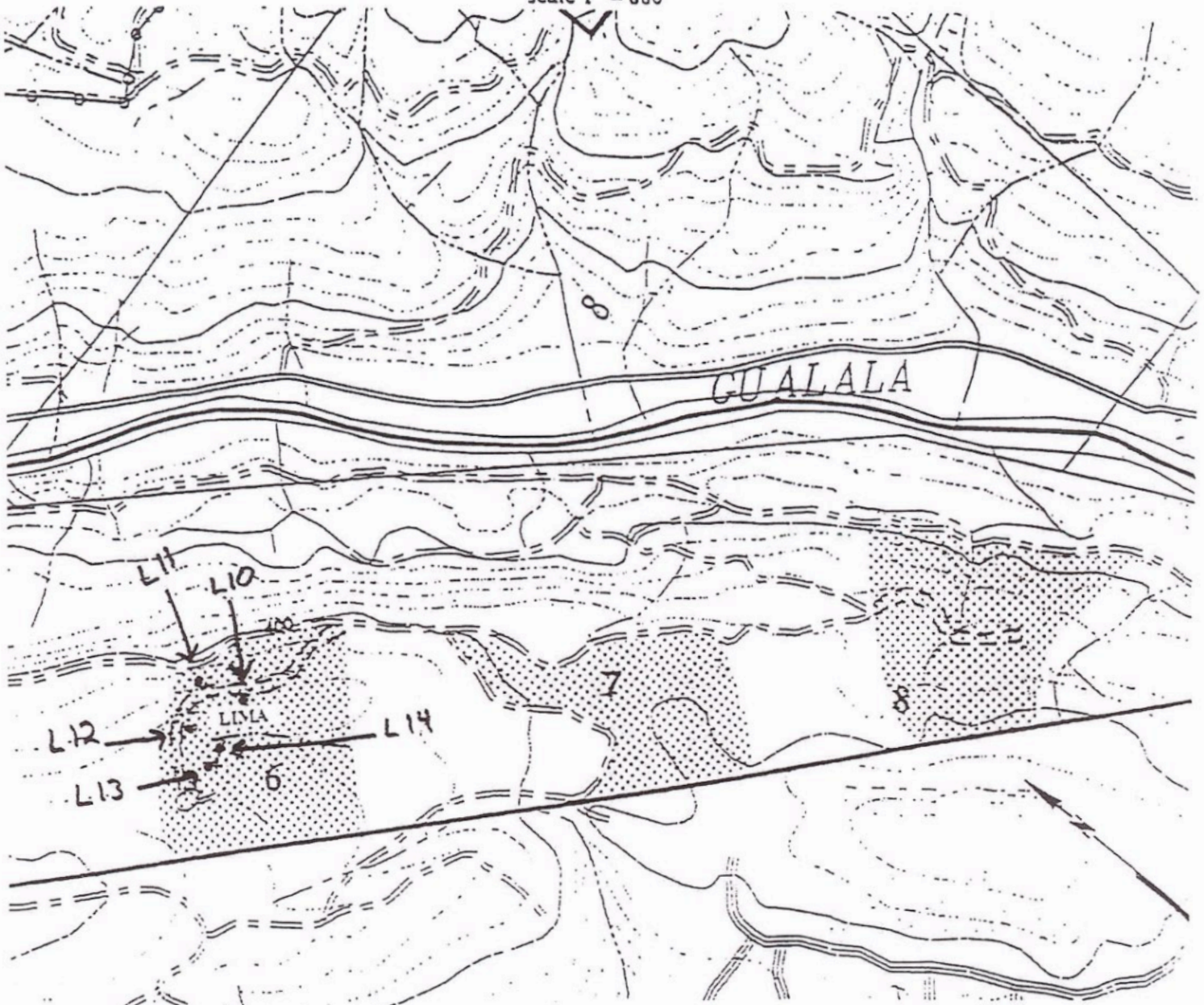


618.18

ADD. 2/20/2024
RECEIVED 02/23/2024
COAST AREA OFFICE
RESOURCE MANAGEMENT

Figure 3: BOTANICAL RETENTION AREAS (Cont.)

scale 1" = 880'



LEGEND

- | | |
|------------------------|-----------------------------------|
| Property Boundary | CACA <i>Campanula californica</i> |
| Paved Public Road | LIMA <i>Lilium maritimum</i> |
| Paved Private Road | SIMA <i>Sidalcea malachroides</i> |
| Seasonal Private Road | SISP <i>Sidalcea sp.</i> |
| Powerline | |
| THP Unit & Unit Number | |
| Drainage | |