



January 14, 2014

Mr. Matthias St.John  
California Regional Water Quality Control Board  
North Coast Region  
5550 Skylane Blvd, Suite A  
Santa Rosa, CA 95403

Subject: **Revised:** Enrollment of THP 1-13-055 HUM into the Freshwater WWDR, "Tier I"

Dear Mr. St. John,

HRC is requesting Tier I enrollment under Watershed-Wide Waste Discharge Requirement (WWDR) of THP 1-13-055 HUM. Currently the landowner has 0 acres enrolled in the Freshwater WWDR for the 2014 calendar year. Harvest acres are summarized below. These acres make up 94 cumulative acres of our allowable 144 acres under Tier 1 limitations.

THP Number	Unit Number	Harvest	Hazard	
		Acres	Low	High*
13-055	1 T1	17.8	16.8	3.8
13-055	2 T1	59.9	59	15.4
13-055	3 T1	16.9	14.9	7.7
Totals		94.6	117.6	

While the THP is covered under the watershed wide WDR, the discharger is and will remain in compliance with the Terms and Provisions of this Order. Other portions of the plan will be subsequently enrolled.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with the system designed to assure that qualified personnel properly gather and evaluate the information submitted. The information is, to the best of my knowledge and belief true, accurate and complete.

If you have any questions please call Jay Fazio at (707) 764-4227.

Sincerely,

Tom Schultz,  
Forest Manager

Attachments:

Unit Map, Application for WD, ECP.



# Humboldt Redwood™

Jan. 14, 2014

Table 1. Proposed 2014 Harvest in Freshwater Creek

THP Name	THP Number	Unit Number	CC	Silviculture			CC Equivalent	Hazard	
				ROW	shr	SEL		Low	High*
Next Beck's thing	12-084	6				8.5	4.3	32.6	
Next Beck's thing	12-084	7				6	3.0	23.0	
Next Beck's thing	12-084	4				9	4.5	34.6	
Another Whiskey	11-007	7				61.6	30.8	236.6	
Fresh Aire 13	13-055	1 T1				17.8	8.9	16.8	
Fresh Aire 13	13-055	2 T1				59.9	34.0	55.9	
Fresh Aire 13	13-055	3 T1				16.9	8.5	14.9	
Fresh Aire 13	13-055	4 T2				17	8.5	13.6	
Fresh Aire 13	13-055	5 T2				43.5	21.8	34.8	
Fresh Aire 13	13-055	6 T2				42.1	21.1	39.2	
Fresh Aire 13	13-055	7 T2				7.7	3.9	7.3	
Fresh Aire 13	13-055	8 T2				15.5	7.8	14.7	
Fresh Aire 13	13-055	9 T2				18.8	9.4	16.3	
Fresh Aire 13	13-055	10 T2				10.6	5.3	9.6	
Fresh Aire 13	13-055	11 T2		0.3		3.8	2.2	2.6	
Next Beck's thing	12-084	1 T2				245	122.5	222.5	
Next Beck's thing	12-084	ROW T2		8		0	4.0	0	
							300.2		0.0

\*The acres represented here have been converted to High Hazard Acres by multiplying by 3.8404.

TBD - Planning is either in the approval or preparation stage. Acreages are not finalized yet. They will be finalized prior to enrollment

Highlight indicates a THP and Specific Unit to be enrolled prior to establishing an enforceable Zero Discharge Monitoring Plan (Tier I). Weighted Acreage Totals are listed below to demonstrate compliance with the Staff Landslide Model limit of 144 Harvest Acres in Freshwater Creek. Other THP Units will be enrolled after approval of the aforementioned Monitoring Plan

No Highlight Indicates a THP and Specific Unit to be enrolled after establishment of an enforceable Zero Discharge Monitoring Plan (Tier II).

As per 2013 enrollment, these acres are accounted for in 2013 harvest

Total Clear Cut Equivalent Acres enrolled or submitted for enrollment	300.2
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Table 2. Summary of THPs to enrolled prior to establishment of Zero Discharge Monitoring Plan for Freshwater Creek

THP Number	Unit Number	Harvest Acres	Hazard	
			Low	High*
13-055	1 T1	17.8	16.8	3.8
13-055	2 T1	59.9	59	15.4
13-055	3 T1	16.9	14.9	7.7
Totals		94.6	117.6	

Table 3. Summary of THPs by Yarding System and Site Preparation for Freshwater Creek

THP Name	THP Number	Unit Number	Yarding System			Site Preparation		
			Ground Based	Yarder	Helicopter	Mechanical	Broadcast	
Next Beck's thing	12-084	6		8.5		0	0	
Next Beck's thing	12-085	7		6		0	0	
Next Beck's thing	12-086	4		9		0	0	
Another Whiskey	11-007	7		54.9		0	0	
Fresh Aire 13	13-055	1 T1		17.8		0	0	
Fresh Aire 13	13-055	2 T1	3.1	56.8		0	0	
Fresh Aire 13	13-055	3 T1		16.6		0	0	
Fresh Aire 13	13-055	4 T1		14.3		0	0	
Fresh Aire 13	13-055	5 T2		36		0	0	
Fresh Aire 13	13-055	6 T2	4	31.6		0	0	
Fresh Aire 13	13-055	7 T2	7.7			0	0	
Fresh Aire 13	13-055	8 T2		14.2		0	0	
Fresh Aire 13	13-055	9 T2	0.5	17		0	0	
Fresh Aire 13	13-055	10 T2	1	8.7		0	0	
Fresh Aire 13	13-055	11 T2	0.3	2.6		0	0	
Next Beck's thing	12-084	T2	80	165		0	0	
Next Beck's thing	12-084	ROW T2	8			0	0	
							0	0

CALIFORNIA ENVIRONMENTAL  
PROTECTION AGENCYState of California  
Regional Water Quality Control Board

## APPLICATION/REPORT OF WASTE DISCHARGE GENERAL INFORMATION FORM FOR WASTE DISCHARGE REQUIREMENTS OR NPDES PERMIT



### I. FACILITY INFORMATION

#### A. Facility:

<b>Name:</b> THP 1-13-055H, Fresh Aire 13			
<b>Address:</b>			
<b>City:</b>	<b>County:</b>	<b>State:</b>	<b>Zip Code:</b>
<b>Contact Person:</b> Thomas Schultz		<b>Telephone Number:</b> 707-764-4408	

#### B. Facility Owner:

<b>Name:</b> Humboldt Redwood Company			<b>Owner Type (Check One)</b>	
<b>Address:</b> P.O. Box 712			1. <input type="checkbox"/> Individual	2. <input checked="" type="checkbox"/> Corporation
<b>City:</b> Scotia	<b>State:</b> CA	<b>Zip Code:</b> 95540	3. <input type="checkbox"/> Governmental Agency	4. <input type="checkbox"/> Partnership
<b>Contact Person:</b> Thomas Schultz			<b>Telephone Number:</b> 707-764-4408	
			<b>Federal Tax ID:</b>	

#### C. Facility Operator (The agency or business, not the person):

<b>Name:</b> Same as Facility Owner			<b>Operator Type (Check One)</b>	
<b>Address:</b>			1. <input type="checkbox"/> Individual	2. <input type="checkbox"/> Corporation
<b>City:</b>	<b>State:</b>	<b>Zip Code:</b>	3. <input type="checkbox"/> Governmental Agency	4. <input type="checkbox"/> Partnership
<b>Contact Person:</b>			5. <input type="checkbox"/> Other: _____	
			<b>Telephone Number:</b>	

#### D. Owner of the Land:

<b>Name:</b> Same as Facility Owner			<b>Owner Type (Check One)</b>	
<b>Address:</b>			1. <input type="checkbox"/> Individual	2. <input type="checkbox"/> Corporation
<b>City:</b>	<b>State:</b>	<b>Zip Code:</b>	3. <input type="checkbox"/> Governmental Agency	4. <input type="checkbox"/> Partnership
<b>Contact Person:</b>			5. <input type="checkbox"/> Other: _____	
			<b>Telephone Number:</b>	

#### E. Address Where Legal Notice May Be Served:

<b>Address:</b> 125 Main Street		
<b>City:</b> Scotia	<b>State:</b> CA	<b>Zip Code:</b> 95565
<b>Contact Person:</b> Dennis Thiebault		<b>Telephone Number:</b> (707) 764-4127

#### F. Billing Address:

<b>Address:</b> P.O. Box 712		
<b>City:</b> Scotia	<b>State:</b> CA	<b>Zip Code:</b> 95565
<b>Contact Person:</b> Thomas Schultz		<b>Telephone Number:</b> 707-764-4408



**APPLICATION/REPORT OF WASTE DISCHARGE  
GENERAL INFORMATION FORM FOR  
WASTE DISCHARGE REQUIREMENTS OR NPDES PERMIT**



**II. TYPE OF DISCHARGE**

Check Type of Discharge(s) Described in this Application (A or B):

- A. WASTE DISCHARGE TO LAND**                       **B. WASTE DISCHARGE TO SURFACE WATER**

Check all that apply:

- |                                                                                   |                                                        |                                                             |
|-----------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------|
| <input type="checkbox"/> Domestic/Municipal Wastewater Treatment and Disposal     | <input type="checkbox"/> Animal Waste Solids           | <input type="checkbox"/> Animal or Aquacultural Wastewater  |
| <input type="checkbox"/> Cooling Water                                            | <input type="checkbox"/> Land Treatment Unit           | <input type="checkbox"/> Biosolids/Residual                 |
| <input type="checkbox"/> Mining                                                   | <input type="checkbox"/> Dredge Material Disposal      | <input type="checkbox"/> Hazardous Waste (see instructions) |
| <input type="checkbox"/> Waste Pile                                               | <input type="checkbox"/> Surface Impoundment           | <input type="checkbox"/> Landfill (see instructions)        |
| <input type="checkbox"/> Wastewater Reclamation                                   | <input type="checkbox"/> Industrial Process Wastewater | <input type="checkbox"/> Storm Water                        |
| <input type="checkbox"/> Other, please describe: <u>Timber Harvest Activities</u> |                                                        |                                                             |

**III. LOCATION OF THE FACILITY**

Describe the physical location of the facility.

<b>1. Assessor's Parcel Number(s)</b> Facility: Discharge Point:	<b>2. Latitude</b> Facility: Discharge Point:	<b>3. Longitude</b> Facility: Discharge Point:
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**IV. REASON FOR FILING**

<input checked="" type="checkbox"/> New Discharge or Facility	<input type="checkbox"/> Changes in Ownership/Operator (see instructions)
<input type="checkbox"/> Change in Design or Operation	<input type="checkbox"/> Waste Discharge Requirements Update or NPDES Permit Reissuance
<input type="checkbox"/> Change in Quantity/Type of Discharge	<input type="checkbox"/> Other: _____

**V. CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)**

Name of Lead Agency: <u>Cal Fire</u>	
Has a public agency determined that the proposed project is exempt from CEQA? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
If Yes, state the basis for the exemption and the name of the agency supplying the exemption on the line below. Basis for Exemption/Agency: _____	
Has a "Notice of Determination" been filed under CEQA? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
If Yes, enclose a copy of the CEQA document, Environmental Impact Report, or Negative Declaration. If no, identify the expected type of CEQA document and expected date of completion.	
Expected CEQA Documents:	
<input type="checkbox"/> EIR	<input type="checkbox"/> Negative Declaration
Expected CEQA Completion Date: _____	

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY



State of California  
Regional Water Quality Control Board

**APPLICATION/REPORT OF WASTE DISCHARGE  
GENERAL INFORMATION FORM FOR  
WASTE DISCHARGE REQUIREMENTS OR NPDES PERMIT**



**VI. OTHER REQUIRED INFORMATION**

Please provide a COMPLETE characterization of your discharge. A complete characterization includes, but is not limited to, design and actual flows, a list of constituents and the discharge concentration of each constituent, a list of other appropriate waste discharge characteristics, a description and schematic drawing of all treatment processes, a description of any Best Management Practices (BMPs) used, and a description of disposal methods.

Also include a site map showing the location of the facility and, if you are submitting this application for an NPDES permit, identify the surface water to which you propose to discharge. Please try to limit your maps to a scale of 1:24,000 (7.5' USGS Quadrangle) or a street map, if more appropriate.

**VII. OTHER**

Attach additional sheets to explain any responses which need clarification. List attachments with titles and dates below:  
See attached map and Erosion Control Plan

You will be notified by a representative of the RWQCB within 30 days of receipt of your application. The notice will state if your application is complete or if there is additional information you must submit to complete your Application/Report of Waste Discharge, pursuant to Division 7, Section 13260 of the California Water Code.

**VIII. CERTIFICATION**

"I certify under penalty of law that this document, including all attachments and supplemental information, were prepared under my direction and supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

Print Name: Thomas Schultz Title: Forest Manager  
Signature: *Thomas Schultz* Date: Jan. 2, 2014

**FOR OFFICE USE ONLY**

Date Form 200 Received: 1/14/2014	Letter to Discharger:	Fee Amount Received:	Check #:
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**Fresh Aire 13**

**N Planimetric Map**

TAX 818 Sec. 24, 25, 26  
TAX 825 Sec. 19

USGS Quad (s): TAQUA BRIFUSS

SCHENCKNEY CREEK

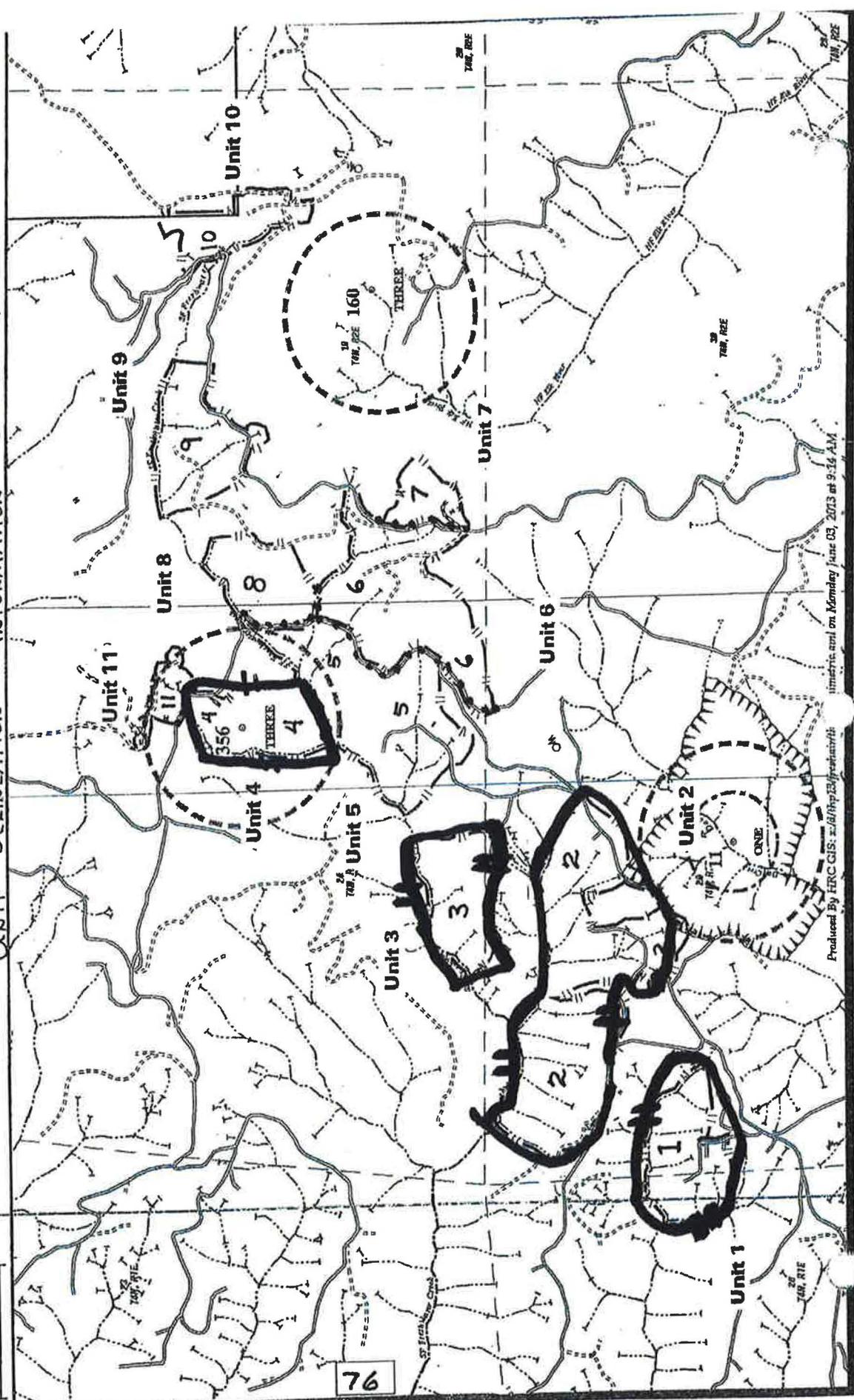
Map Scale: 1 inch = 1320 feet

- Property Line
- Harvest Boundary
- Permanent Road
- Seasonal Road
- Proposed Seasonal Road
- Class I Watercourse
- Class II Watercourse
- Class III Watercourse
- Class IV Water
- NSO Site
- 600' NSO Buffer
- 1000' NSO Buffer
- HRA

... UNIT SEPARATION

**# 2014 TIER 1**

UNIT DELINEATION — INFORMATION UNITS 5-11 TIER 2



Produced By HRC GIS: z.18/10/13/25/10/13/14/14  
imetric and on Monday June 03, 2013 at 9:14 AM

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# **Humboldt Redwood Company LLC**

## **Erosion Control Plan (ECP) for the “ Fresh Aire 13” THP**

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**This plan is being included in the THP to partially meet the requirements  
of the North Coast Regional Water Quality Control Board  
Watershed-wide Discharge Requirements. (WWDRs)**

**All operational portions of this ECP  
that are to be enforced through the Forest Practice Rules  
have been included in Section II of the THP.**

**Version 20080819**

## Humboldt Redwood Company LLC Erosion Control Plan (ECP)

This document addresses the requirements of the California Regional Water Quality Control Board, North Coast Region Order No. R1-2006-0039 (Elk River) for an Erosion Control Plan (ECP) related to timber harvest activities on Non-Federal lands in the North Coast Region (Sec. III D2 and D3). The responsible party for this ECP is Humboldt Redwood Company LLC, P.O. Box 712 Scotia, CA 95565 (707) 764-2330.

This ECP is submitted for: THP Name: **Fresh Aire 13**  
Contact Person: **Jon Woessner, North Area Manager** Phone: **(707) 764-4376**

The landowner is committed to a wide variety of measures to prevent and minimize the discharge or threatened discharge of sediment from controllable sediment discharge sources as part of this project into the waters of the state in violation of applicable water quality requirements. Prevention and Minimization of Controllable Sediment Discharge Sources associated with this project are identified in the *Controllable Sediment Sources* table. The specific conditions of sediment discharge sources and a summary of prevention and minimization measures (Section I) are identified in the table. General prevention and minimization measures for the project (Section II) are incorporated in the ECP by reference.

The RPF and/or the RPF Designee have conducted an inventory of potential "controllable sediment discharge sources" within the project area. As defined in California Regional Water Quality Control Board Order No. R1-2006-0041 (Freshwater Creek).

"Controllable sediment discharge source" means sites or locations, both existing and those created by proposed timber harvest activities, within the Project area that meet all 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 these WWDRs,
2. was caused or affected by human activity, and
3. may feasibly and reasonably respond to prevention."

Upon guidance of the North Coast Regional Water Quality Control Board (NCRWQCB) staff, discharge from the source must be likely to occur during the life of the Timber Harvesting Plan (THP) and WWDR. (Holly Lundborg, personal communication)

The inventory method consisted of an appurtenant road survey, aerial photos and ground assessments of the harvest units, and a complete ground assessment of all watercourses and associated stream protection zones.

The schedule for implementing the prevention and minimization management measures for the controllable sediment sources will be consistent with the duration of the THP. These measures will be implemented in accordance with the priority level assigned to each site. High priority sites will be addressed first with low priority sites to follow. Work at all sites will be accomplished prior to THP expiration. The general prevention and minimization measures will be implemented concurrent with operations.

### I. Inventory and Treatment of Controllable Sediment Sources

All controllable sediment sources are listed in the attached "Erosion Control Plan" table. These sources have been assigned a treatment priority of low, medium or high based on: 1) potential for significant sediment delivery to a Class I, II or III channel; 2) treatment immediacy (a subjective combination of event probability and sediment delivery); and 3) treatment cost-effectiveness.

The Prioritization for implementing prevention and minimization measures for road-related and non road-related controllable sediment sources is based upon guidance provided in Order No. R1-2006-0041 (Freshwater Creek) Highest priority is assigned to the largest sediment discharge sources that discharge to waters that support domestic water supplies or fish. The landowner's prioritization method considers this guidance, and combines it with consideration for accessibility and level of imminent risk of significant sediment discharge. Sources that receive a high priority rating will be treated by a date certain as noted in the Controllable Sediment Sources table. Sources that receive a low or medium rating are determined to have a low to moderate risk of imminent discharge and will be treated prior to completion of the THP, or as otherwise indicated.

Non-road related controllable sediment sources can include skid road crossings, yarding furrow, skid road in watercourse, perched skid road fill, skid road rutting, landslide, layouts, railroad grade, incline, etc.

Information specific to Controllable Sediment Discharge Sources is listed in the Controllable Sediment Sources Table, below. An explanation of information provided in that table is provided below.

## II. General Prevention and Minimization Measures for Controllable Sediment Discharge

In addition to the site specific measures detailed above, the general measures proposed in this project, either as required by another State or Federal regulating agency, or as a matter of Humboldt Redwood Company policy, will prevent or minimize future sediment delivery. These measures include, but are not limited to measures incorporated in the THP Section Items as follows:

### THP Section II:

- Item 14 – Describes silvicultural prescriptions
  - (l) Site Preparation – Disclosure of selected site preparation treatments and mitigation measures
- Item 16 – Harvesting Practices – Describes yarding systems, equipment utilized, equipment limitations, and drainage facility installation timing
  - Inclusive through (m) – equipment use limitations and mitigation
- Item 18 – Soil Stabilization – waterbreak requirements, mitigation to minimize soil disturbance and sediment transport
- Item 20 – Ground Based Equipment Use Location
- Item 21 – Ground Based Equipment Use in Sensitive Areas – locations, descriptions of operations, limitations and mitigation measures
- Item 22 – Alternative Practices to Harvesting and Erosion Control
- Item 23 – Winter Operations – Provides descriptions of limitations and mitigation measures required during winter period operations and Winter Operating Plan
- Item 24 – Roads and Landings – Describes road and landing construction and re-construction operations, limitations, drainage relief structure installation, mitigation measures, road maintenance, inspections and wet weather road use restrictions
- Item 25 – Site Specific Measures to Reduce Adverse Impacts and Special Instructions to the LTO
- Item 26 – Watercourse and Lake Protection (WLPZ)
- Item 27 – "In Lieu" WLPZ Practice(s)
- Item 28 – Downstream Water Users Notification and Domestic Water Supply Protection Description of protection measures
- Item 29 – Sensitive Watershed – Identifies whether the plan is located in a designated sensitive watershed and mitigation measures
- Item 29 – 1 Hillslope Management (HCP 6.3.3.7) – Describes HCP hillslope management measures required as per watershed analysis

### THP Section V:

- Sediment Reduction from Roads and THP Sediment Production--Including Table 1 – "Sediment Delivery for Units and Roads for this THP," references, letter regarding Road related sediment assessment for this THP with the calculations of deliverable net cubic yards of sediment, calculations and PWA information related to the THP project area when available

### Maps attached:

- Road Construction Locations/ECP Site Locator Map
- Appurtenant Road

**Fresh Aire 13**  
**Road Construction Specifications Map**

T4N R2E Sec. 24, 25, 26 55&M  
 T4N R2E Sec. 15 55&M

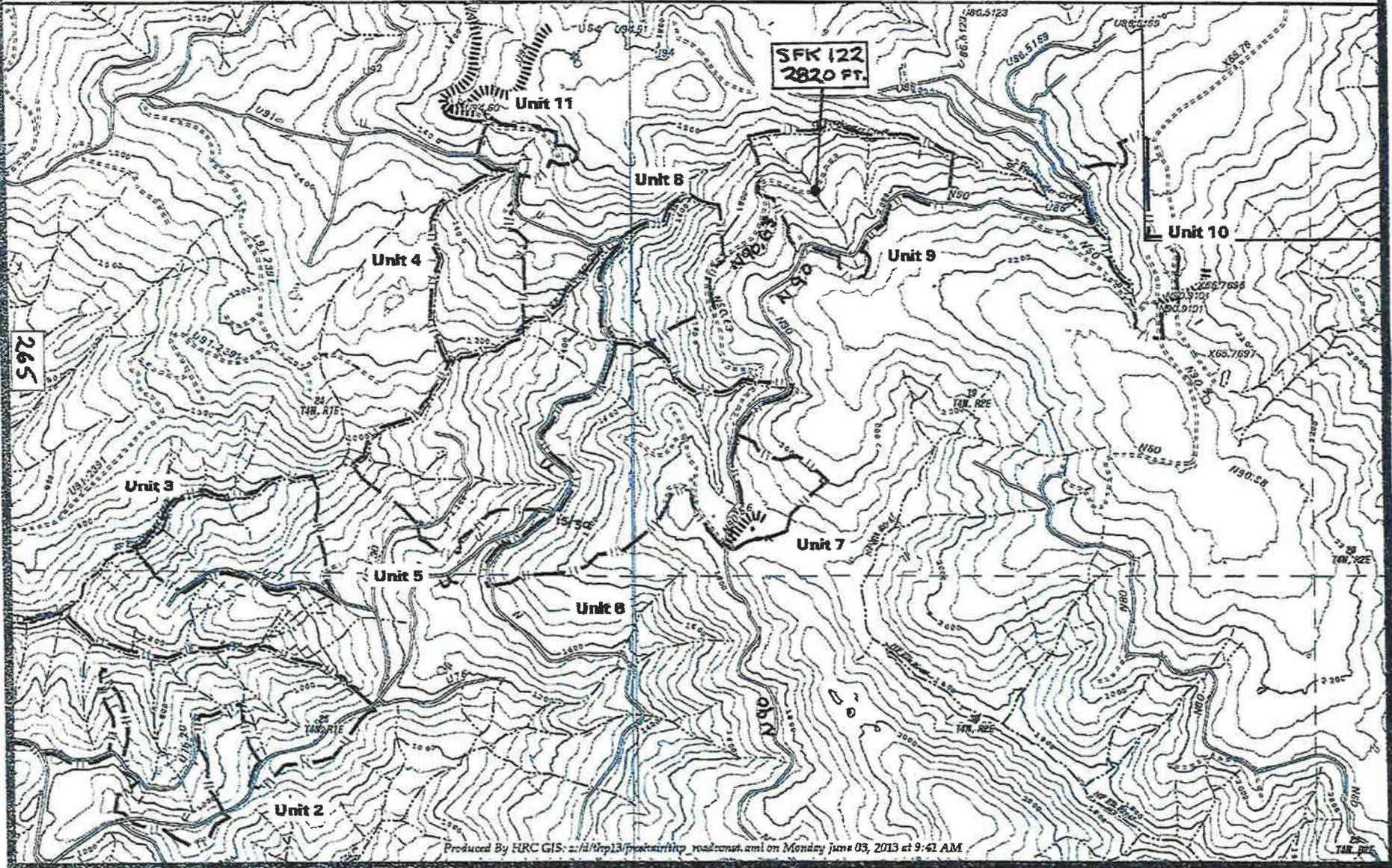
USGS Quad (s) : TAQUA BUTTES, MCKINNEY CREEK

- Property Line
- |— Harvest Boundary
- Permanent Road
- Seasonal Road
- ==== Temporary Road
- ~ Class I Watercourse
- ~ Class II Watercourse
- ~ Class III Watercourse
- o Class II Waters

||||||| Cut and Fill Construction  
 1/2 Cut and 1/2 Fill

Map Scale: 1 inch = 1000 feet  
 Contour Interval: 40 feet

**ECP SITE LOCATION**



**Fresh Aire 13**  
**Appurtenant Road Map**

T4N R1E Sec. 24, 25, 26 NW/4  
T4N R2E Sec. 19 NW/4

USGS Quad (s): IAQUA BUTTES, NEWHINNY CRKX



Appurtenant  
(Private Road)



Property Line



Permanent Road



Seasonal Road



Temporary Road



Proposed  
Seasonal Road



NB01 61ra



500' NBO Buffer



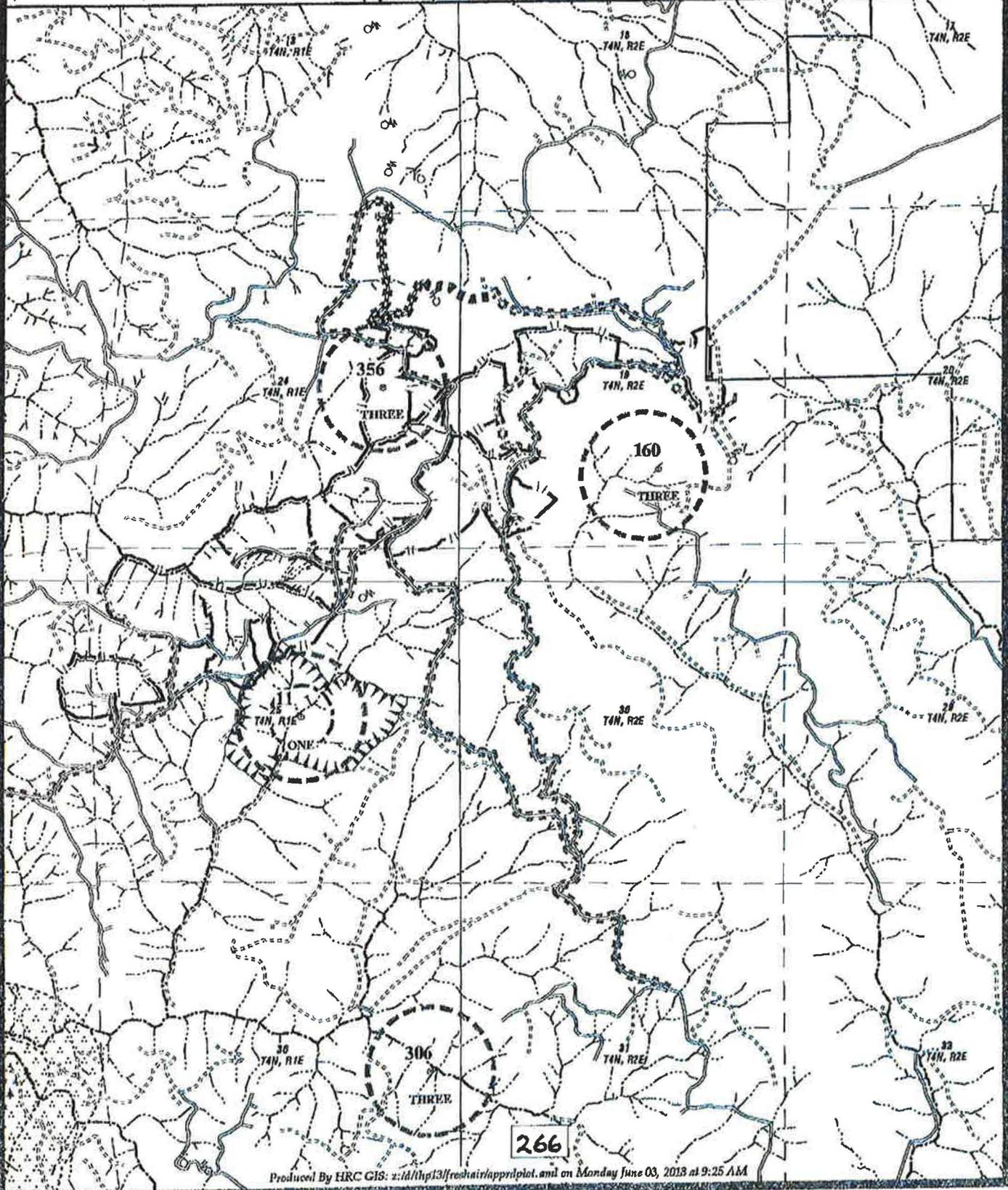
1000' NBO Buffer



NRA

Map Scale: 1 inch = 2000 feet

# APPURTENANT ROADS 1 of 3



**N Fresh Aire 13**  
**Appurtenant Road Map**

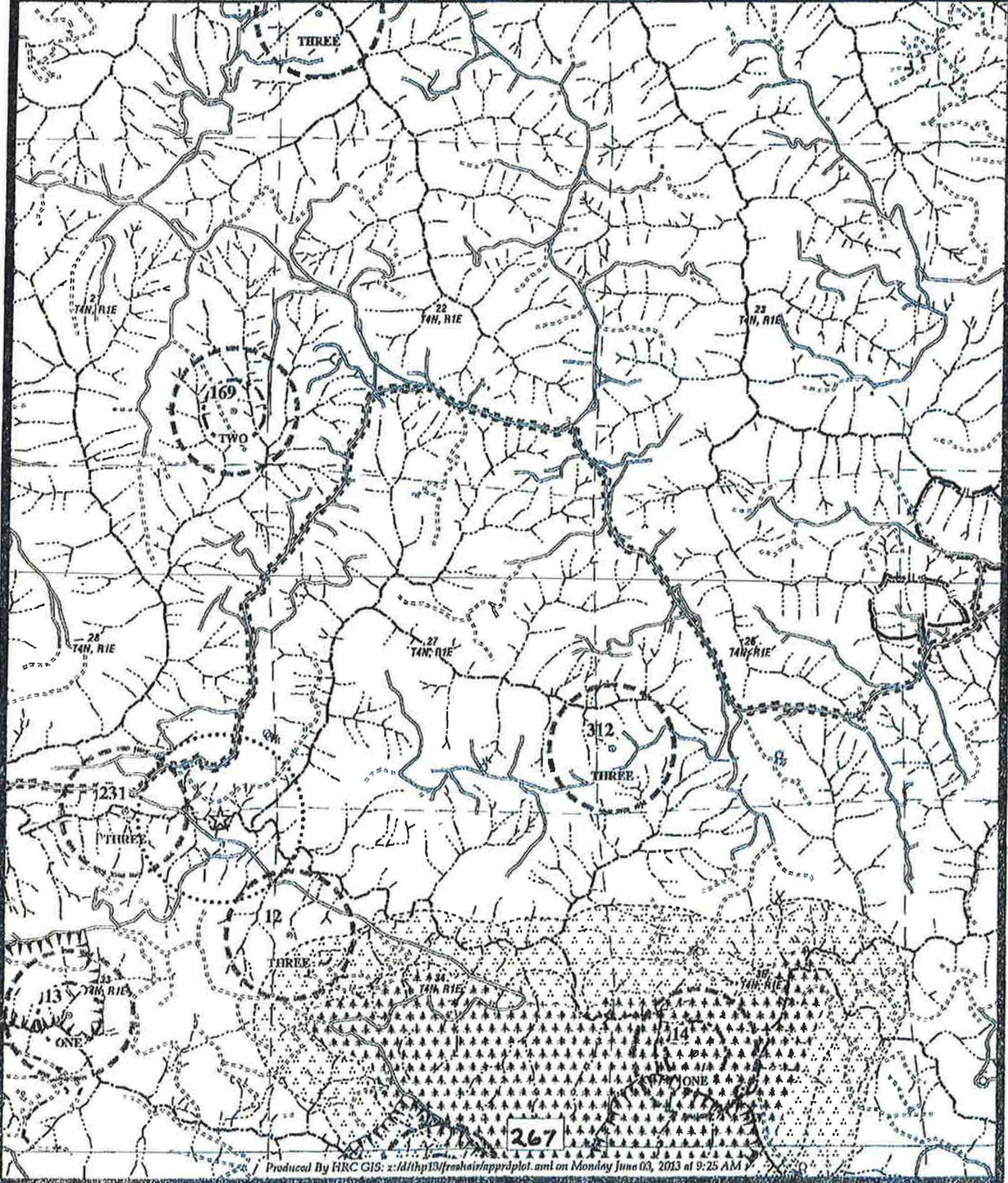
34R R1 & Sec. 24, 25, 26 HD&K  
 24N R2R Rec. 19 H&M

USGS Quad (s) : TAQUA BUTTES, MCWHITNEY CREEK



Map Scale: 1 inch = 2000 feet

**APPURTENANT ROADS 2 of 3**





### III Inspection Plan and Reporting Requirements

#### A. Inspection Plan

The Inspection Plan is designed to ensure that all required management measures are installed and functioning prior to rainfall events; that the management measures are effective in controlling sediment discharge sources throughout the winter period; and that no new controllable sediment discharge sources developed.

- B. Qualified and trained professionals will conduct all specified inspections of the project site to identify areas causing or contributing to a violation of the applicable water quality requirements or other provisions of these WWDRs. The responsible party for inspection and reporting is **Jon Woessner (707) 764-4376**.
- C. No inspections are required in Project Areas where Timber Harvest Activities have not yet commenced.
- D. Project Areas where Timber Harvest Activities have commenced and no winter period Timber Harvest Activities have occurred inspections will be conducted each year and throughout the duration of the Project while Timber Harvest Activities occur.
- a. The Project is covered under WWDRs and the following Inspection requirements will begin at the startup of timber harvest activities within the Project area:
    - i. By November 15 to assure Project Areas are secure for the winter period;
    - ii. Once following ten (10) inches of cumulative rainfall commencing on November 15 and prior to March 1, as worker safety and access allows; and
    - iii. After April 1 and before June 15 to assess the effectiveness of management measures designed to address controllable sediment discharges and to determine if any new controllable sediment discharges sources have developed.
  - b. Project Areas with Winter Period Timber Harvest Activities will conduct inspections of such Project Areas while Timber Harvesting Activities occur and the Project is covered under the WWDRs as follows:
    - i. Immediately following cessation of winter period Timber Harvest Activities to assure areas with winter Timber Harvest Activities are secure for the winter;
    - ii. Once following ten (10) inches of cumulative rainfall commencing on November 15 and prior to March 1, as worker safety and access allows; and
    - iii. After April 1 and before June 15 to assess the effectiveness of management measures designed to address controllable sediment discharges and to determine if any new controllable sediment discharges sources have developed.
  - c. Inspection reports will identify where management measures have been ineffective and when repairs and design changes will be implemented to correct management measure failures.
  - d. After completing the required inspections, and when it has been determined new controllable sediment discharges sources have developed, the ECP, implementation schedule, and inspection plan will be updated, if required, consistent with the WWDRs and submit the updated documents to the Regional Water Board to maintain coverage under the WWDRs. If the approved amendment is found to be out of compliance with the WWDRs, the Project will be amended to be consistent with the provisions of the WWDR within 30 days, or coverage under the WWDRs will be terminated. The Project will then be required to seek Project coverage under an individual WDR.
  - e. Equipment, materials, and workers will be available for rapid response to failures and emergencies, implement, as feasible, emergency management measures depending upon field conditions and worker safety for access.
- D. If during the inspection or during the course of conducting timber harvest activities, a violation of an applicable water quality requirement or conditions of WWDRs is discovered, the following procedures will be followed:
- a. When it has been determined that discharges are causing or contributing to a violation or an exceedence of an applicable water quality requirement or a violation of a WWDR prohibition:
    - i. Corrective measures will be implemented immediately following the discovery that applicable water quality requirements were exceeded or a prohibition violated, followed by notification to the Regional Board by telephone as soon as possible but no later than 48 hours after the discharge has been discovered. The notification will be followed by a report within 14 days to the Regional Board, unless otherwise directed by the Executive Officer, that includes:
      1. the date the violation was discovered;
      2. the name and title of the person(s) discovering the violation;
      3. a map showing the location of the violation site;
      4. a description of recent weather conditions prior to discovering the violation;

5. the nature and cause of the water quality requirement violation or exceedence or WWDR prohibition violation;
6. photos of the site characterizing the violation;
7. the management measure(s) currently being implemented;
8. any maintenance or repair of management measures;
9. any additional management measures which will be implemented to prevent or reduce discharges that are causing or contributing to the violation or exceedence of applicable water quality requirements or WWDR prohibition violation; and,
10. The signature and title of the person preparing the report.
11. The report will include an implementation schedule for corrective actions and describe the actions taken to reduce the discharges causing or contributing to violation or exceedence of applicable water quality requirements or WWDR prohibition violation.

E. For other inspections conducted where violations are not discovered, a summary report will be submitted to Executive Officer by June 30<sup>th</sup> for each year of coverage under the WWDRs or upon termination of coverage. The summary report, at a minimum will include the date of inspections, the inspector's name, the location of each inspection, and the title and name of the person submitting the summary report.

If helicopter operations are proposed for this project, please find attached a Columbia Helicopters, Inc. (CHI) Fuel Spill Prevention and Cleanup Plan For Columbia Helicopters Field Operations. No helicopter operations are on this plan.

Explanation of Information Included in the Controllable Sediment Sources Table	
Column Heading	Explanation
Site No.	Site identification unique to project area
Site Type	A description of the existing site. Example: Humboldt Crossing; Culvert Crossing; Unstable Fill; Unstable Cut Slope; Diversion Potential.
Estimate of Potential Erosion	A quantitative estimate of the volume, in cubic yards, of the total amount of potential erosion/displacement of soil that will occur should the site entirely fail. The landowner often uses a methodology developed by Pacific Watershed Associates to estimate erosion, which assumes 100% delivery of calculated volume—use of this method for individual sites is noted in Site Description.
Potential Sediment Delivery Percent	An estimate of the relative potential for sediment delivery expressed as a percent of the total amount of Potential Erosion that will be discharged to waters of the State should the site fail.
Sediment Prevention Volume	The volume, in cubic yards, of sediment discharge estimated to be prevented by implementation of the prescribed treatment. Volume represents the Estimate of Potential Erosion multiplied by the Potential Sediment Delivery Percent.
Priority for Treatment	Treatment priority reflects the immediacy of sediment discharge and the relative risk to the receptor, should the site fail. Low priority sites are ones that will not likely deliver significant amounts of sediment during the life of the WWDR permit, and will be treated prior to filing of THP work completion report, which does not exceed 5-years following THP approval date. Medium or high priority sites indicate potentially imminent discharge, and the timing of treatment is indicated in Implementation Schedule column.
Implementation Schedule	Indicates the timing of implementing the prevention and minimization measures listed in the Treatment column.
Site Description	Provides sufficient information that describes the existing condition of the site and factors that inform the chosen treatment methods and implementation schedule. This information will include a description of how the existing condition of the site (ie. stable or unstable) will be affected by different storm events, and whether sediment discharge is imminent. For example, an unstable site could easily discharge significant amounts of sediment in a small storm, thus the treatment priority should be higher. Conversely, a stable site that may take one or more very large storms to trigger discharge could be lower treatment priority. If PWA method is used to calculate erosion/delivery volumes, it will noted here.
Treatment	Sediment discharge prevention and minimization measures that will be implemented at the site, including treatment specifications if necessary.

**Attachments:**

- ECP Table

# Erosion Control Plan

Site	Site Type	Est. Potential Erosion (Cu.Yards)	Est. Potential Delivery (Cu.Yards & %)	Priority for Treatment	Implementation Schedule	Site Description	Treatment
<b>Project Fresh Aire 13</b>							
RD: N90.63 STATION: 2820 SITE: SFK122 WOID: 1751912039 SEDD: 20018 REPAIRED: NO	Permanent Crossing	128	128 100%	Low	Prior to THP Final Completion.	Functional Class II crossing with 18" pipe. Crossing is at the end of a long road, and is not needed.	18" CMP on a Class II stream with a landing and skid on the left bank. Channel is skidded upon and filled with slash and debris. Channel is stable and future erosion is minimal.  Remove the existing culvert. Excavate from TOP to BOT, grading above TOP as needed to establish a smooth transition. Stockpile spoils locally.
<b>Total Estimated Yards</b>		128	128				

272

Figure 1

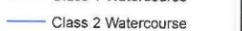
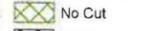
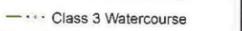
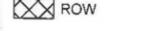
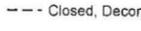
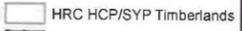
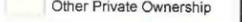
Fresh Aire 13  
THP # 1-13-055

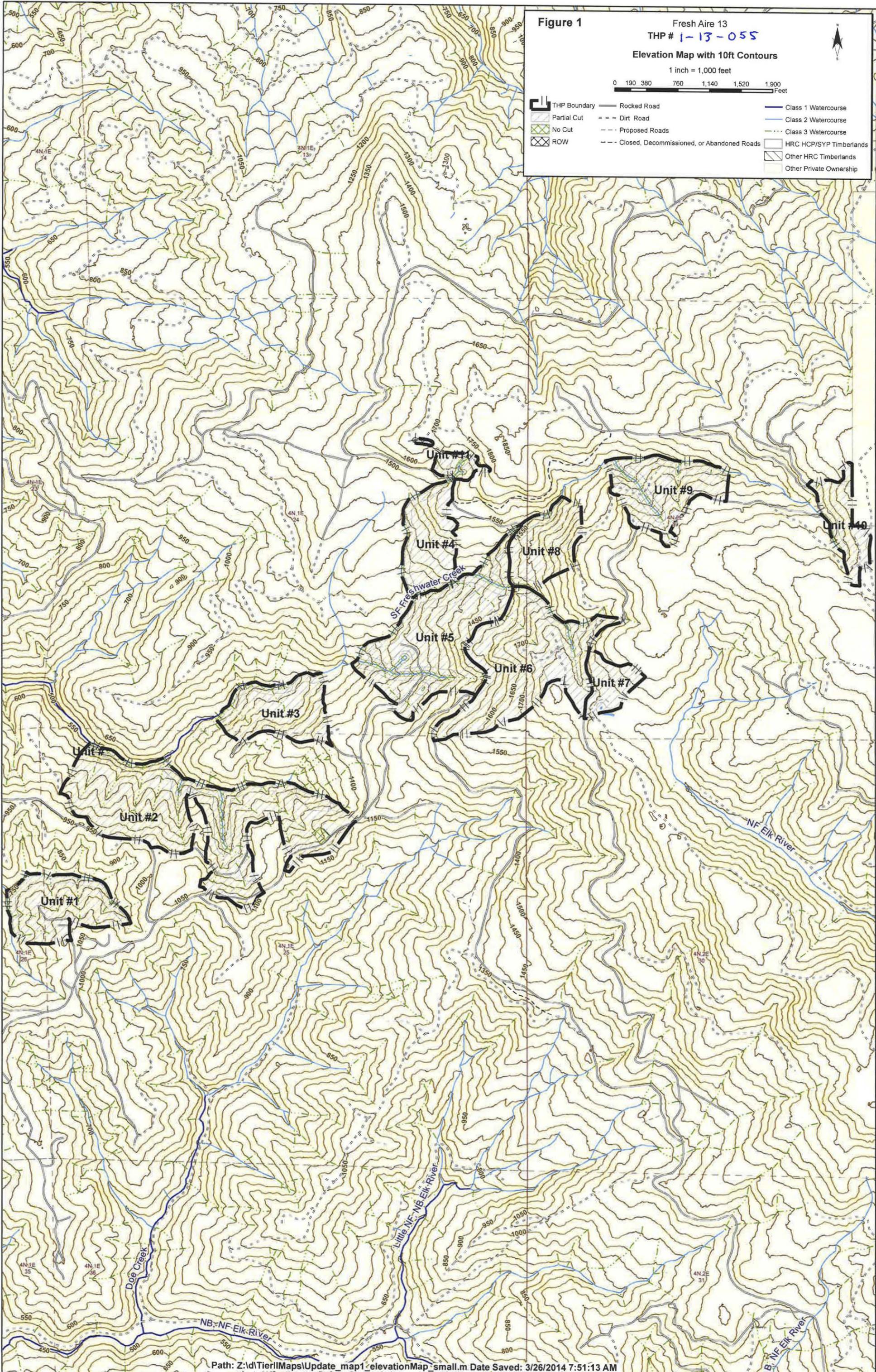
Elevation Map with 10ft Contours

1 inch = 1,000 feet

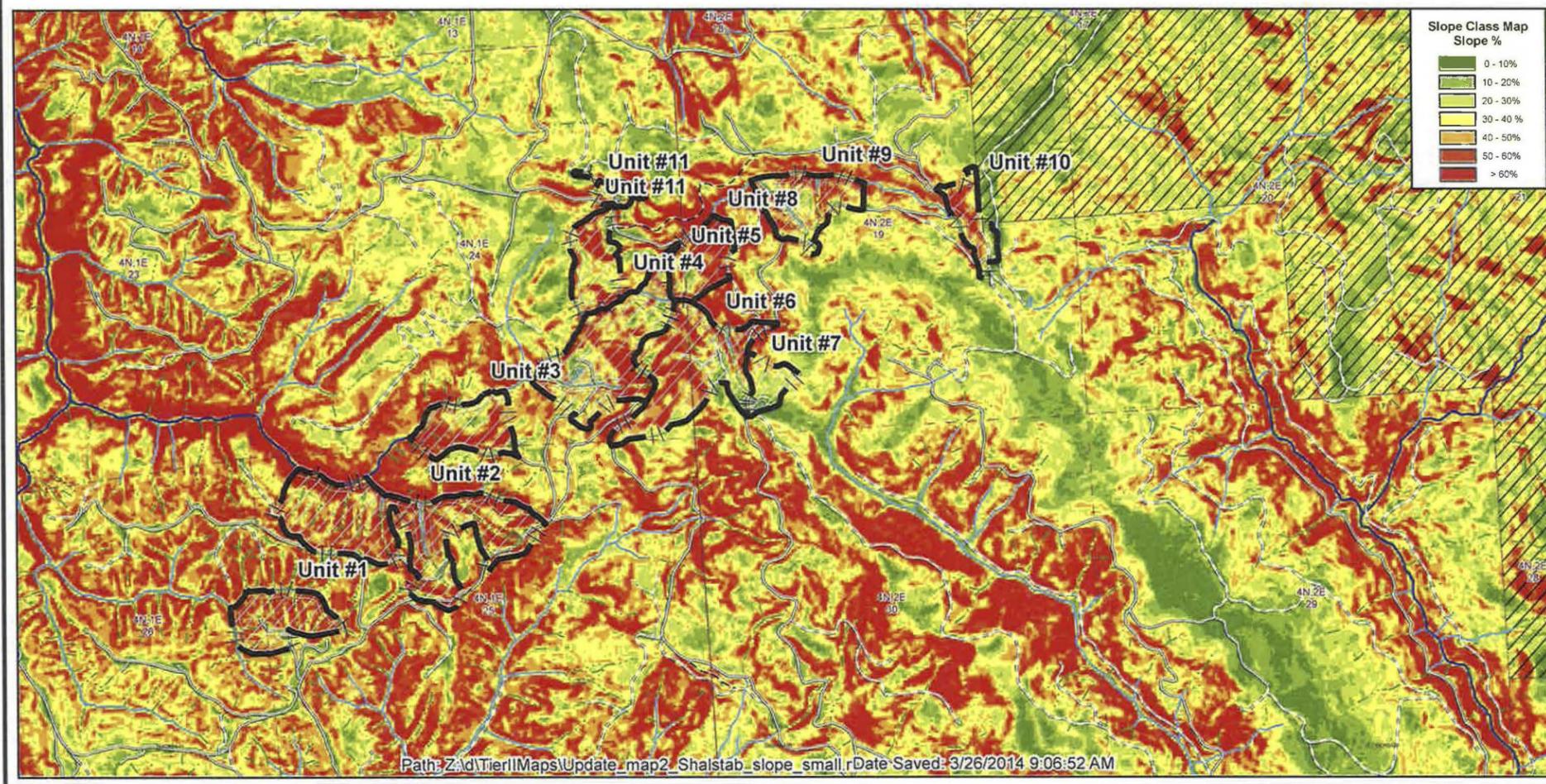
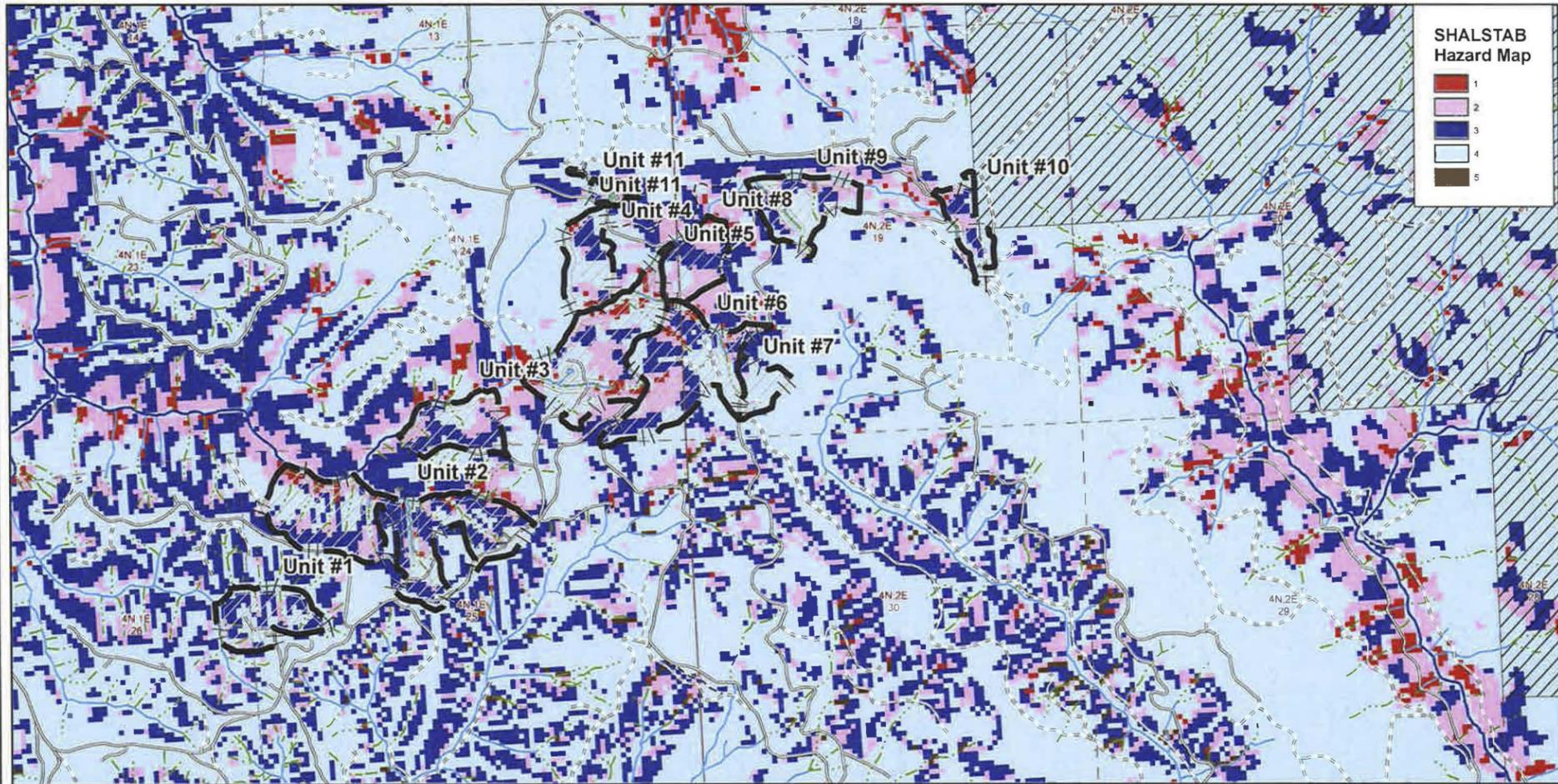
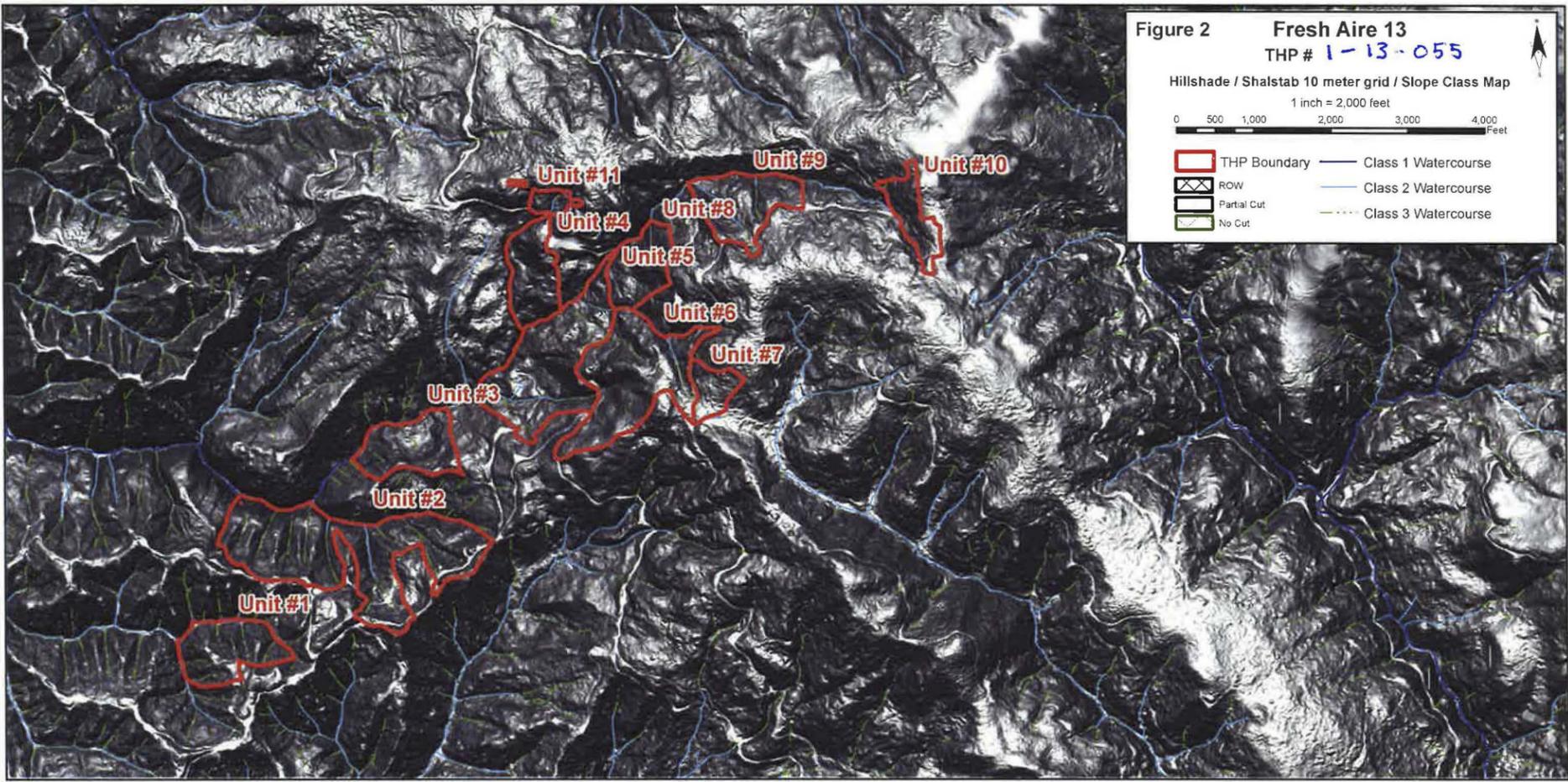
0 190 380 760 1,140 1,520 1,900 Feet



-  THP Boundary
-  Rocked Road
-  Class 1 Watercourse
-  Partial Cut
-  Dirt Road
-  Class 2 Watercourse
-  No Cut
-  Proposed Roads
-  Class 3 Watercourse
-  ROW
-  Closed, Decommissioned, or Abandoned Roads
-  HRC HCP/SYP Timberlands
-  Other HRC Timberlands
-  Other Private Ownership



**Figure 2 Fresh Aire 13**  
**THP # 1-13-055**  
 Hillshade / Shalstab 10 meter grid / Slope Class Map  
 1 inch = 2,000 feet  
 0 500 1,000 2,000 3,000 4,000 Feet



### Geologic Symbols

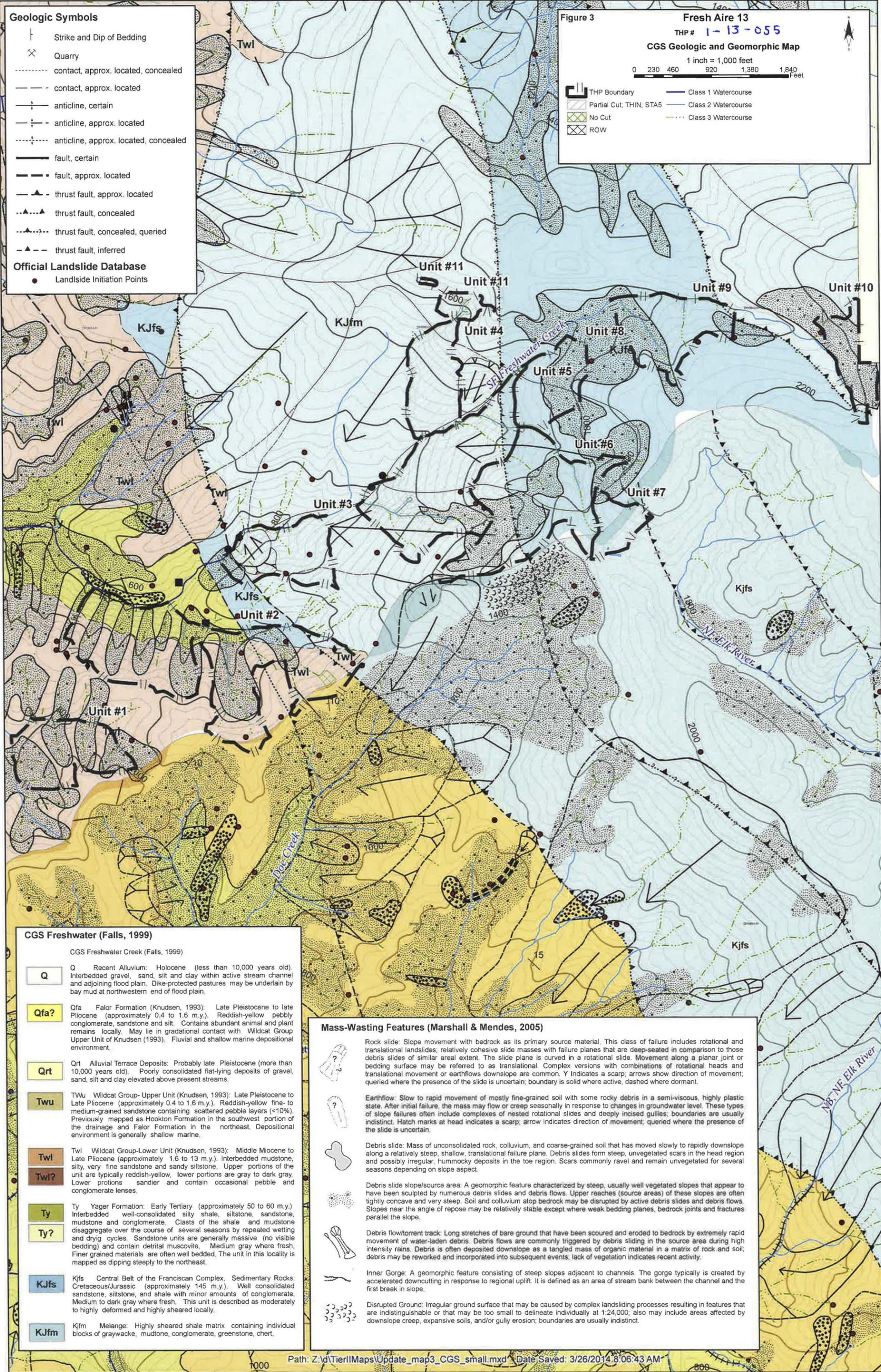
- Strike and Dip of Bedding
- Quarry
- contact, approx. located, concealed
- contact, approx. located
- anticline, certain
- anticline, approx. located
- anticline, approx. located, concealed
- fault, certain
- fault, approx. located
- thrust fault, approx. located
- thrust fault, concealed
- thrust fault, concealed, queried
- thrust fault, inferred

### Official Landslide Database

- Landslide Initiation Points

**Figure 3** **Fresh Aire 13**  
 THP # **1-13-055**  
**CGS Geologic and Geomorphologic Map**  
 1 inch = 1,000 feet

- THP Boundary
- Partial Cut, THIN; STA5
- No Cut
- ROW
- Class 1 Watercourse
- Class 2 Watercourse
- Class 3 Watercourse



### CGS Freshwater (Falls, 1999)

CGS Freshwater Creek (Falls, 1999)

- Q** Recent Alluvium: Holocene (less than 10,000 years old). Interbedded gravel, sand, silt and clay within active stream channel and adjoining flood plain. Dike-protected pastures may be underlain by bay mud at northwestern end of flood plain.
- Qfa?** Falor Formation (Knudsen, 1993): Late Pleistocene to late Pliocene (approximately 0.4 to 1.6 m.y.). Reddish-yellow pebbly conglomerate, sandstone and silt. Contains abundant animal and plant remains locally. May lie in gradational contact with Wildcat Group Upper Unit of Knudsen (1993). Fluvial and shallow marine depositional environment.
- Qrt** Alluvial Terrace Deposits: Probably late Pleistocene (more than 10,000 years old). Poorly consolidated deposits of gravel, sand, silt and clay elevated above present streams.
- Twu** Wildcat Group- Upper Unit (Knudsen, 1993): Late Pleistocene to Late Pliocene (approximately 0.4 to 1.6 m.y.). Reddish-yellow fine- to medium-grained sandstone containing scattered pebble layers (<10%). Previously mapped as Hookton Formation in the southwest portion of the drainage and Falor Formation in the northeast. Depositional environment is generally shallow marine.
- Twl** Wildcat Group-Lower Unit (Knudsen, 1993): Middle Miocene to Late Pliocene (approximately 1.6 to 13 m.y.). Interbedded mudstone, silty, very fine sandstone and sandy siltstone. Upper portions of the unit are typically reddish-yellow, lower portions are gray to dark gray. Lower portions sandier and contain occasional pebble and conglomerate lenses.
- Twl?**
- Ty** Yager Formation: Early Tertiary (approximately 50 to 60 m.y.) Interbedded well-consolidated silty shale, siltstone, sandstone, mudstone and conglomerate. Clasts of the shale and mudstone disaggregate over the course of several seasons by repeated wetting and drying cycles. Sandstone units are generally massive (no visible bedding) and contain detrital muscovite. Medium gray where fresh. Finer grained materials are often well bedded. The unit in this locality is mapped as dipping steeply to the northeast.
- Ty?**
- KJfs** KJfs Central Belt of the Franciscan Complex. Sedimentary Rocks: Cretaceous/Jurassic (approximately 145 m.y.). Well consolidated sandstone, siltstone, and shale with minor amounts of conglomerate. Medium to dark gray where fresh. This unit is described as moderately to highly deformed and highly sheared locally.
- KJfm** KJfm Melange: Highly sheared shale matrix containing individual blocks of graywacke, mudstone, conglomerate, greenstone, chert,

### Mass-Wasting Features (Marshall & Mendes, 2005)

- Rock slide:** Slope movement with bedrock as its primary source material. This class of failure includes rotational and translational landslides; relatively cohesive slide masses with failure planes that are deep-seated in comparison to those debris slides of similar areal extent. The slide plane is curved in a rotational slide. Movement along a planar joint or bedding surface may be referred to as translational. Complex versions with combinations of rotational heads and translational movement or earthflows downslope are common. Y indicates a scarp; arrows show direction of movement; queried where the presence of the slide is uncertain; boundary is solid where active, dashed where dormant.
- Earthflow:** Slow to rapid movement of mostly fine-grained soil with some rocky debris in a semi-viscous, highly plastic state. After initial failure, the mass may flow or creep seasonally in response to changes in groundwater level. These types of slope failures often include complexes of nested rotational slides and deeply incised gullies; boundaries are usually indistinct. Hatch marks at head indicates a scarp; arrow indicates direction of movement; queried where the presence of the slide is uncertain.
- Debris slide:** Mass of unconsolidated rock, colluvium, and coarse-grained soil that has moved slowly to rapidly downslope along a relatively steep, shallow, translational failure plane. Debris slides form steep, unvegetated scars in the head region and possibly irregular, hummocky deposits in the toe region. Scars commonly ravel and remain unvegetated for several seasons depending on slope aspect.
- Debris slide slope/source area:** A geomorphic feature characterized by steep, usually well vegetated slopes that appear to have been sculpted by numerous debris slides and debris flows. Upper reaches (source areas) of these slopes are often tightly concave and very steep. Soil and colluvium atop bedrock may be disrupted by active debris slides and debris flows. Slopes near the angle of repose may be relatively stable except where weak bedding planes, bedrock joints and fractures parallel the slope.
- Debris flow/torrent track:** Long stretches of bare ground that have been scoured and eroded to bedrock by extremely rapid movement of water-laden debris. Debris flows are commonly triggered by debris sliding in the source area during high intensity rains. Debris is often deposited downslope as a tangled mass of organic material in a matrix of rock and soil; debris may be reworked and incorporated into subsequent events; lack of vegetation indicates recent activity.
- Inner Gorge:** A geomorphic feature consisting of steep slopes adjacent to channels. The gorge typically is created by accelerated downcutting in response to regional uplift. It is defined as an area of stream bank between the channel and the first break in slope.
- Disrupted Ground:** Irregular ground surface that may be caused by complex landsliding processes resulting in features that are indistinguishable or that may be too small to delineate individually at 1:24,000; also may include areas affected by downslope creep, expansive soils, and/or gully erosion; boundaries are usually indistinct.

Figure 4

Fresh Aire 13  
THP # 1-13-055  
Mass Wasting Potential Map

1 inch = 1,000 feet

1,500 750 0 1,500 Feet



- |              |                                            |                     |
|--------------|--------------------------------------------|---------------------|
| THP Boundary | Rocked Road                                | Class 1 Watercourse |
| Partial Cut  | Dirt Road                                  | Class 2 Watercourse |
| No Cut       | Proposed Roads                             | Class 3 Watercourse |
| ROW          | Closed, Decommissioned, or Abandoned Roads |                     |

- Mass-Wasting Potential**
- Very Low
  - Low
  - Moderate
  - High
  - Very High
  - Extreme

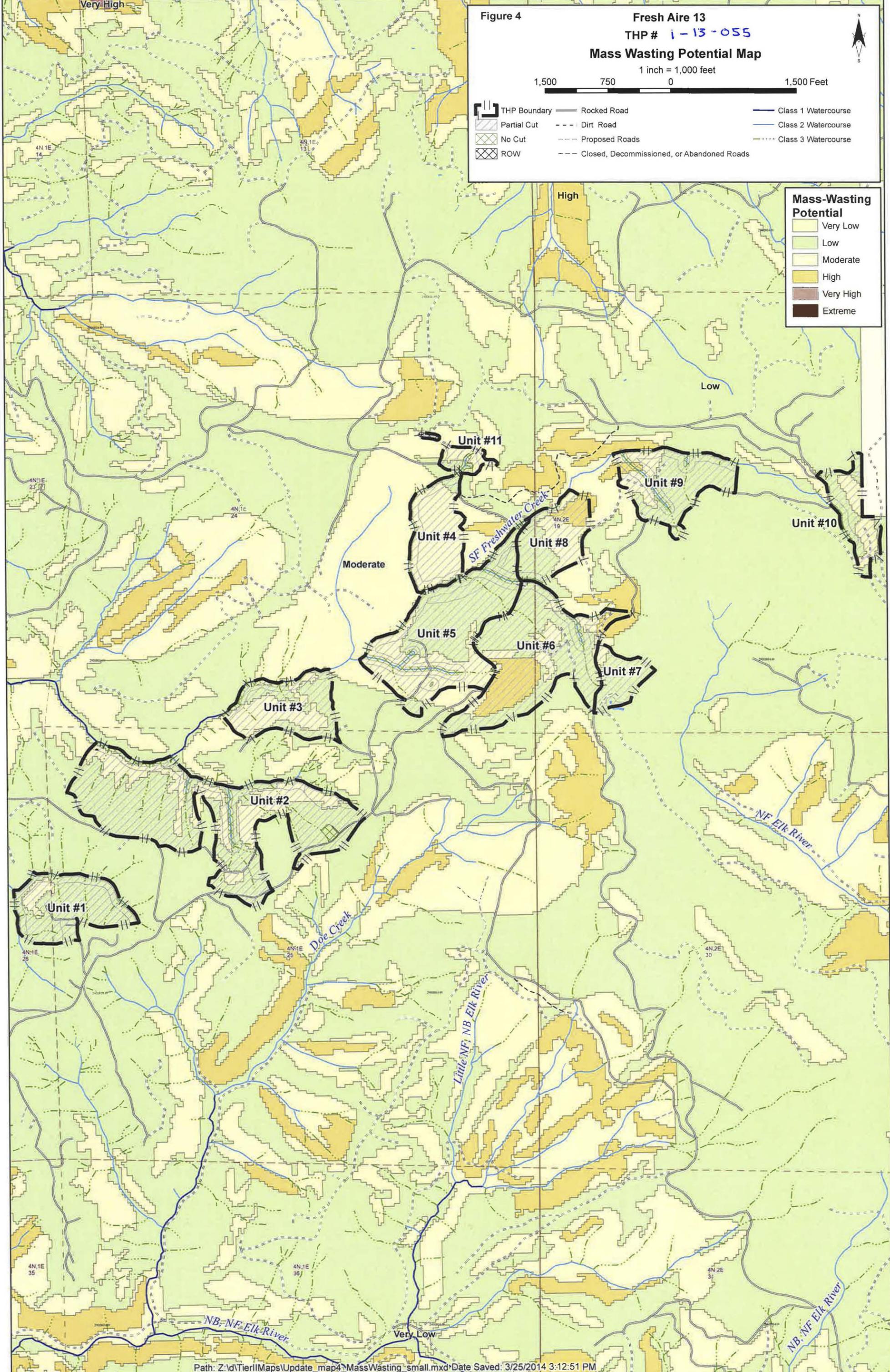


Figure 5

Fresh Aire 13  
THP # 1-13-055

Aerial Photo Map

1 inch = 1,000 feet

0 330 660 1,320 1,980 2,640 Feet



- |             |                                            |                         |
|-------------|--------------------------------------------|-------------------------|
| Partial Cut | Rocked Road                                | Class 1 Watercourse     |
| No Cut      | Dirt Road                                  | Class 2 Watercourse     |
| ROW         | Proposed Roads                             | Class 3 Watercourse     |
|             | Closed, Decommissioned, or Abandoned Roads | HRC HCP/SYP Timberlands |
|             |                                            | Other HRC Timberlands   |
|             |                                            | Other Private Ownership |



 Crown of Deep-Seated Landslides  
**Hazard for Reactivation or Acceleration of Movement**  
 N/A (landslides in grassland areas)  
 Very Low  
 Low  
 Low to Moderate  
 Moderate  
 High

**Figure 6**  
**Fresh Aire 13**  
 THP # **1-13-055**  
**Watershed Analysis Deep-Seated Landslide Map**  
 1 inch = 1,000 feet  
 0 500 1,000 2,000 Feet  
 THP Boundary  
 Rocked Road  
 Dirt Road  
 Proposed Roads  
 Closed, Decommissioned, or Abandoned Roads  
 Partial Cut  
 No Cut  
 ROW  
 Class 1 Watercourse  
 Class 2 Watercourse  
 Class 3 Watercourse  
 HRC HCP/SYP Timberlands  
 Other HRC Timberlands  
 Other Private Ownership

**Landslide Symbols (HartCrowser, 2000)**  
 Scarp  
 Earthflow  
 Rotational / Translational / Earthflow  
 Rotational / Translational

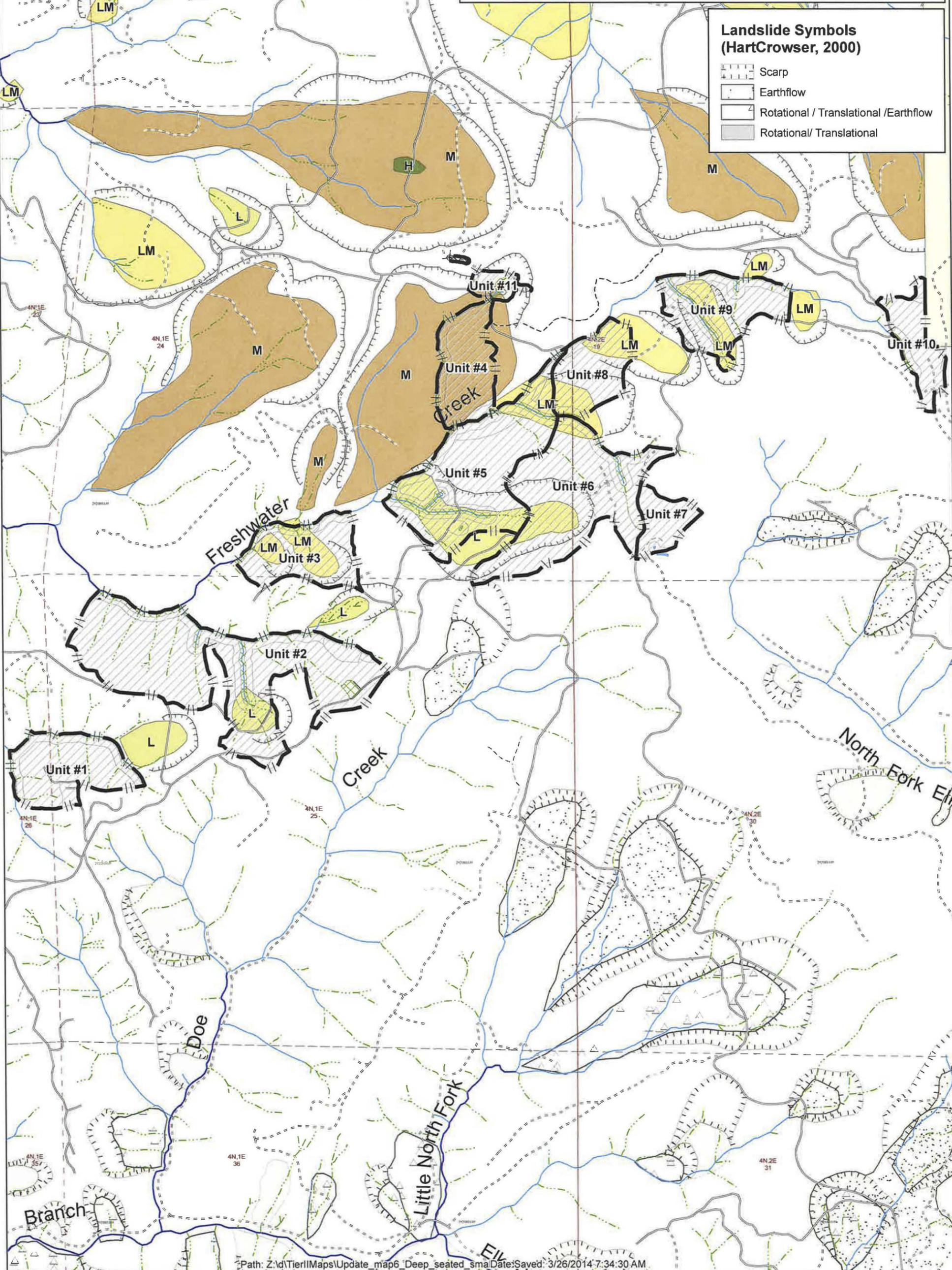


Figure 7

Fresh Aire 13

THP # 1-13-055

Road Map

1 in = 2,000 ft

0 750 1,500 3,000 4,500 6,000 Feet

	THP Boundary		Paved Roads		Stormproofed		Class 1 Watercourse
	Partial Cut		Rocked Roads		Upgraded		Class 2 Watercourse
	No Cut		Dirt Roads		Decommissioned		Class 3 Watercourse
	ROW		Proposed Roads		HRC HCP/SYP Timberlands		Other HRC Timberlands
			Closed, Decommissioned, or Abandoned		Other Private Ownership		MMCA Boundaries

