

# Pre-Operations Report

**Operation Name:** Month O' Sundays  
**County:** Washington  
**Management Basin:** Sunday Creek

**Table 1. Operation Areas, Types and Acres**

Area	Type of Operation	Gross Acres	Net Acres
1	Moderate Partial Cut	282	266
<b>Total</b>	<b>Partial Cut Harvest</b>	<b>282</b>	<b>266</b>

## **I. PHYSICAL DESCRIPTION OF OPERATION AREA:**

The sale is located on a gentle ridgetop and moderate slopes above Sunday Creek and the Tualatin River.

Slopes have a east aspect and range from 0% to 40%. Elevations range from 1560 to 1920 feet. The major soil types are Grindstone and Killam.

## **II. CURRENT STAND CONDITION:**

The sale areas burned in the 1933 and 1939 Tillamook Burns. Portions of the sale area were seeded in the early 1960's. There has not been any other stand management.

Approximately 85% of the sale area has been inventoried using the Stand Level Inventory (SLI) procedure and those stands have been classified as UDS (see Table 3). The current structure of the unmeasured stand (15% of the sale area) is estimated to be CSC, according to SLI expanded data. Field recon of the unmeasured stand confirms the current stand condition as CSC.

The stand is composed almost entirely of overstocked Douglas-fir. The understory is comprised primarily of vine maple, dwarf Oregon grape, sword fern, and salal.

Forest Grove Districts Sunday Creek Basin DWD average is approximately 93 ft<sup>3</sup> DWD and 1 snag per acre  $\geq$ 15 inches within classes 1 and 2.

**Table 2. Stand Inventory Information**

Area	Prescription	Stand ID <sup>1</sup>	Species	Age	DBH	BA	TPA	SDI	Net Acres <sup>2</sup>
1	PC-M <sup>3</sup>	8127	DF	39	16	252	187	64	214
		8163*	DF, WH	44	16	203	1460	51	40
		8166	RA, DF	57	19	210	105	50	12
		<i>Target<sup>4</sup></i>	<i>DF</i>		17	130	82	32	266

<sup>1</sup> The source of stand inventory information is from SLI inventory grown forward to 2007. Stand ID's shown with a (\*) are unmeasured stands, and the source of inventory information for these stands is expanded SLI data.

<sup>2</sup> The acres are based on GIS and exclude existing and planned roads, stream buffers, and non-thinnable areas.

<sup>3</sup> PC-M is Moderate Partial Cut.

<sup>4</sup> The Target row for partial cut areas identifies expected stand characteristics (DBH, BA, TPA and SDI) after harvesting has been completed.

### **III. DESIRED FUTURE CONDITION/VISION:**

The harvest operation will continue the stand's development as UDS structure in the short term. According to the Forest Grove District's landscape design, the desired future condition (DFC) for the sale area is 7% LYR and 93% OFS.

All existing snags and down woody debris of all decay classes shall be retained where safety allows. Hardwoods and all conifer species other than Douglas-fir shall be reserved from harvest. All of these components combined will maintain and promote biodiversity within the future stand.

The ground vegetation across the sale area will be dominated by salal, dwarf Oregon grape, sword fern, and vine maple. Snags and DWD components will be consistent with FMP strategies.

Management objectives for this area is to obtain a DFC of complex. Thinning the overstory will establish a healthier more vigorous understory by allowing seedlings and young trees to grow. Underplanting in addition to manual or chemical control of competing brush may be necessary at this time. A second entry thinning will help to keep the stand on its path to complex. An entry at this time will maintain a healthy understory and the continued vigor of the overstory.

The vision is to develop a mixed conifer understory which contributes to the layering characteristic associated with complex structures.

**Table 3. Stand Structure Information**

Area	Prescription	Stand ID	Current	Post Harvest <sup>1</sup>	Desired Future	Net Acres
1	PC-M	8127	UDS	UDS	LYR	199
					OFS	15
		8163	CSC <sup>2</sup>	UDS	LYR	40
					OFS	4
8166	UDS	UDS	LYR	8		
			OFS	4		

<sup>1</sup> The stand is expected to develop into this condition in the five to ten years after this operation is completed, except in REG stands which occur after harvest.

<sup>2</sup> Current stand condition is based on expanded data; see discussion above.

**IV. PROPOSED MANAGEMENT PRESCRIPTION AND PATHWAY:**

**Partial Cut - Moderate:**

Area 1 is PC- M. The target SDI is approximately 33.

Douglas-fir will be selected for harvest. All other species will be reserved. The stand will be thinned to a target basal area of 120 to 140 square feet. The average DBH of the residual stand will be approximately 17 inches. Residual trees will be the trees that have the largest DBH, and are of the best form and vigor. All trees less than 8 inches shall not count toward the target basal area.

All existing snags determined not to be a safety hazard, all DWD, and any felled snags will be left for down wood and reserved in the sale areas.. To meet the FMP guidelines, DWD recruitment will be obtained immediately post harvest through logging slash and cull and bucked log segments. Felled snags, windthrow of residual trees, and mortality is expected to contribute to an increase in class 1 DWD. Additional snags will be created over time through natural processes.

Post harvest the stand will have a stand structure of UDS. All trees less than 8 inches, grand fir, western red cedar, and hardwoods shall be retained. This prescription will provide more light and nutrients to promote increased diameter growth of the residual trees and understory development.

In approximately 20 years after this initial partial cut a second entry partial cut will be conducted to further accelerate reserve tree growth and understory conifer development. Twenty years after the second entry the stand should be evaluated for a third entry if the DFC-complex has not been achieved. If the goal of DFC-complex has been achieved, the stand will be left on the landscape for approximately 20 years.

**V. ESTIMATED TIMBER AND REVENUE OUTPUTS:**

**Table 4. Timber and Revenue**

Ownership		Sale Type	
BOF	CSL	Cash	Recovery
100%	0%		<input checked="" type="checkbox"/>
Planned Quarter:		2	

	Conifer	Hardwood	Total
Net Volume (MBF)	4,000		4,000
Stumpage Value (\$/MBF)	\$300		
Estimated Gross Value			\$1,200,000
		Project Costs:	\$219,000
		Estimated Net Value:	\$981,000

**VI. HARVESTING AND ACCESS CONSIDERATIONS:**

The sale areas are accessed via Turner Mainline, NF Trask River Road, Sunday Creek Road, and unnamed spur roads. These are currently all-weather, crushed rock roads. Access is through Weyerhaeuser and BLM owned land. Two gates are along the haul route. ODF has an easement for all non ODF managed roads. Road use fees will not apply.

Approximately 1.8 miles of road will be constructed to provide access to cable landing locations. Estimated cost for road construction is \$126,000. New construction is limited to ridgetops. New roads will not cross streams.

Approximately 1.5 miles of road will be improved with the timber sale for better access and to improve sustainability. Estimated cost for improvement is \$90,000. Improvement will likely consist of road widening, adding a lift of rock, and culvert installation/replacement.

The rock source will be the Barney Pit.

Approximately 0.7 miles of legacy roads will be vacated. Estimated cost for vacating is \$3,000.

All haul roads will have high quality crushed rock or pit run surfacing. Roads will provide access to all timber within the sale area and allow for logging methods and hauling which will minimize impacts to soils, residual timber, streams, and riparian areas.

Estimated cost of project work is \$219,000.

Following harvest on each setting during logging operations, roads and skid trails within the sale areas will be evaluated for closure.

The operation will be approximately 25% cable yarding and 75% ground yarding.

**Table 5. Transportation Management Summary (Miles)**

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construction	0	0	1.8	0
Improvement	0	0	1.5	0
Maintenance	0	11.0	3.3	0
Closure/Vacation	0	0	0	0.7

<sup>†</sup>Includes third party roads.

**VII. AQUATIC RESOURCES AND WATER QUALITY:**

Riparian areas are hardwood/conifer mixed.

There is possibly one unverified type F perennial stream and two small type N perennial streams within the sale area. The unverified type F stream and one of the type N streams flow into Sunday Creek. The other small type N perennial stream flows into the Tualitin River. The Tualitin River runs adjacent to the south boundary of the sale and Maple Creek, another type N perennial stream runs on the west side of the sale.

All stream classifications will be assessed by ODFW and field observation during sale layout.

Stream buffers within harvest unit boundaries will be managed according to FMP Riparian Strategies. The riparian areas will be reviewed during sale layout for current stand conditions and/or operational constraints for implementing FMP strategies.

In order to protect water quality during active operations, a variety of methods will be used to prevent sediment from entering live streams. These methods include (but are not limited to) maintaining culverts and other road drainage structures, using sediment control devices in road ditches when necessary, and seasonal restrictions on logging and hauling operations.

**VIII. T&E SPECIES CONSIDERATIONS:**

The sale areas have been reviewed with the ODF Northwest Oregon Area Biologist.

Spotted owl surveys are not required for Month O' Sundays as the sale area is within the Tillamook Burn (see November 2002 ODF Policy Guidance: *Northern Spotted Owl Surveying on State Forest Lands*).

Surveys for marbled murrelets are not required, due to the absence of potentially suitable habitat within the sale area. The District T&E Coordinator made the determination that the sale area is non-suitable habitat for marbled murrelets. The ODF wildlife biologist for the NW Oregon Area reviewed and approved this determination.

The sale areas were checked against the Oregon Natural Heritage Program (ONHP) database of known listed plant locations, as well as against local records in the Land Management Classification System (LMCS). No listed plant records were identified within or adjacent to the sale areas.

#### **IX. SLOPE STABILITY AND GEOTECHNICAL ISSUES:**

This assessment is based on analysis of USGS 1:24,000 topographic maps.

There is an isolated high landslide hazard location in the southeast corner of the sale. The sale drains into Sunday Creek and the Tualatin River. The risk of landslides delivering directly to Sunday Creek and the Tualatin River from the sale is low (*per Northwest Oregon Area Geotechnical Specialist*).

The geotechnical specialist will be consulted if evidence of recent landslide activity is identified during sale layout.

#### **X. RECREATION RESOURCES:**

The sale area is designated as Non-Motorized in the Tillamook State Forest Comprehensive Recreation Plan (1993). The area is accessed through private industrial forest land. Public access is prohibited. There are no anticipated impacts to recreation resources.

#### **XI. CULTURAL RESOURCES:**

The sale area and proposed road construction right-of-way were checked against the Tillamook State Forest Cultural Resource Inventory Database (GIS format). No cultural resource records were identified within or adjacent\* to the operation areas. If any significant cultural resources are located during sale preparation, the Public Use Coordinator (ODF Salem Staff) will be consulted regarding potential protection measures.

*\*Adjacent refers to approximately one tree length from an operation area. For the purpose of this screen, a 200 foot buffer around the sale boundary and proposed road construction right-of-way was assessed for cultural resource locations.*

#### **XII. SCENIC RESOURCES:**

The sale area has a visual classification of Level 3, low sensitivity.

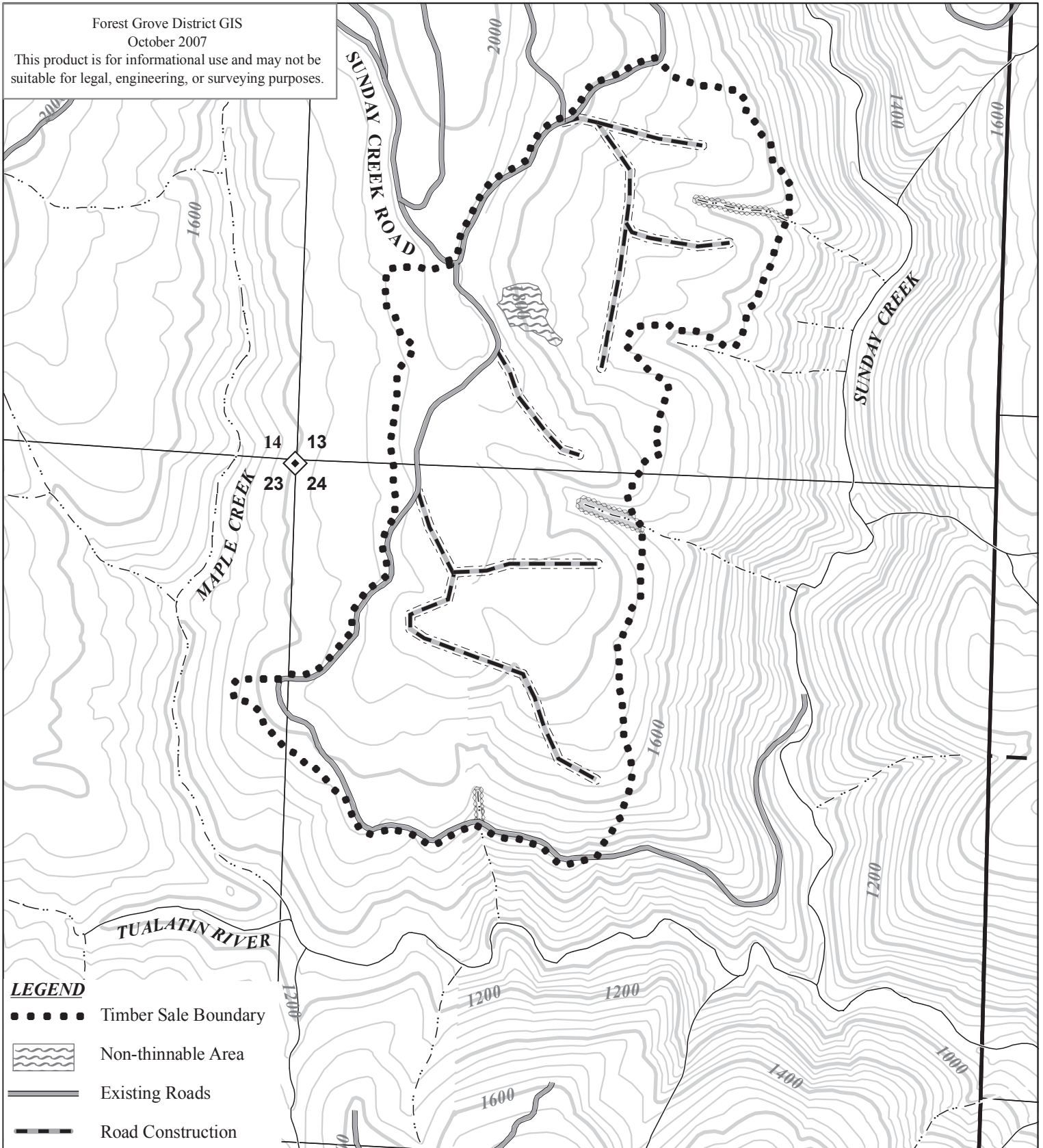
**XIII. OTHER RESOURCE CONSIDERATIONS:**

All known survey corners and witness trees shall be protected from damage during any operations.










**XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:**

The sale area contains Focused and Special Stewardship, Aquatic and Riparian Habitat Subclass. See Section VII, Aquatic Resources and Water Quality, for the management guidelines to be utilized.

This product is for informational use and may not be suitable for legal, engineering, or surveying purposes.



**LEGEND**

- Timber Sale Boundary
-  Non-thinnable Area
-  Existing Roads
-  Road Construction
-  Road Construction Right-of-Way
-  Perennial Type F Stream
-  Perennial Type N Stream
-  Posted Stream Buffer
-  400' Contour Intervals
-  80' Contour Lines

FY 2009  
 MONTH O' SUNDAYS  
 PORTIONS OF SECTIONS 13, 23 & 24, T01S, R06W, W.M.  
 WASHINGTON COUNTY, OREGON

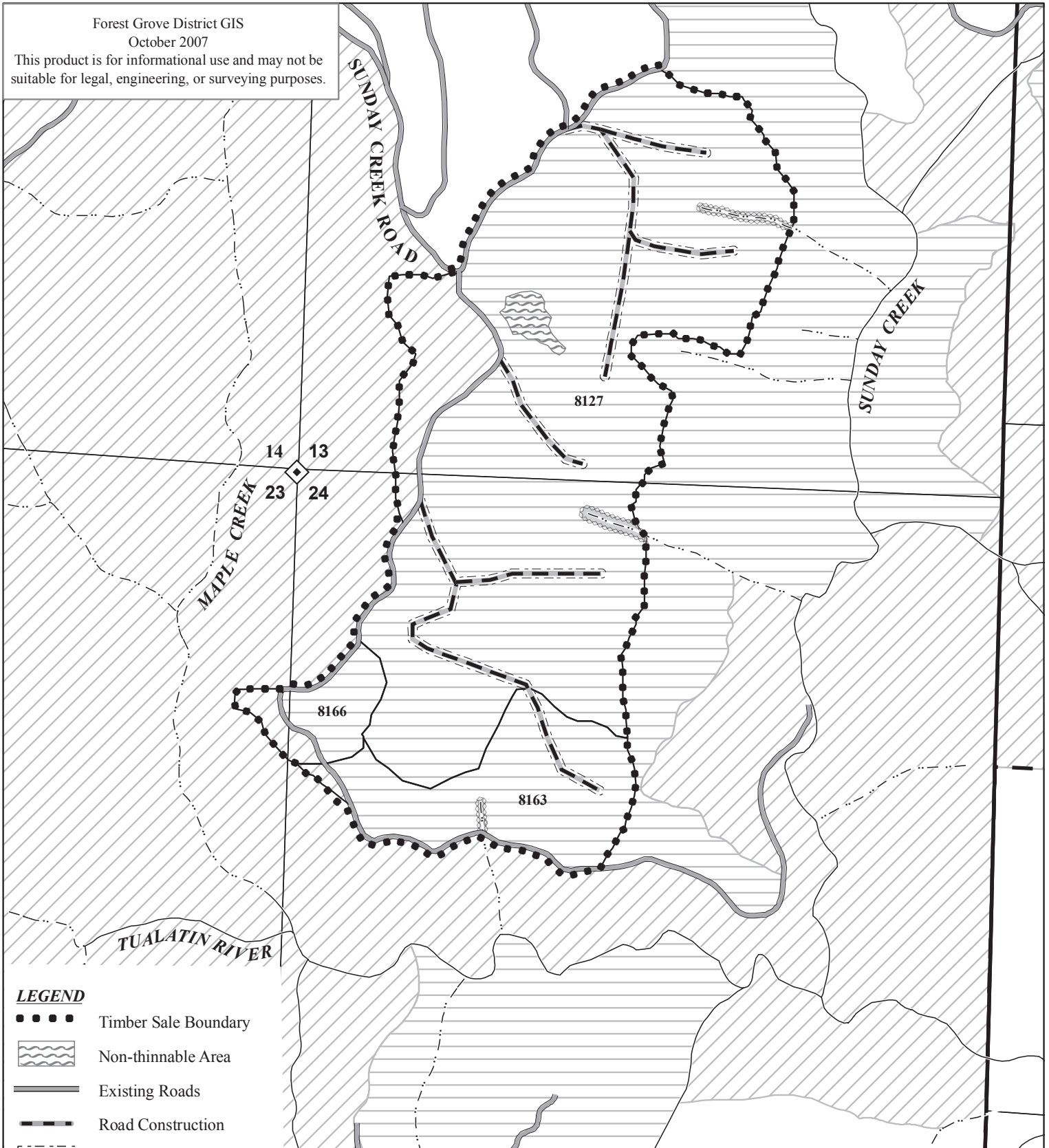
Attachment A: Topography

Scale  
 1:12000  
 1 inch = 1000 feet













APPROXIMATE NET ACREAGE	
AREA 1	266 ACRES (PC-M)
TOTAL	266 ACRES

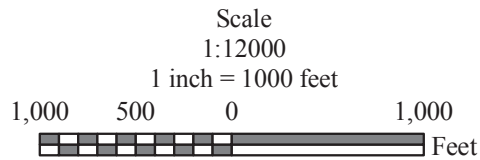
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**LEGEND**

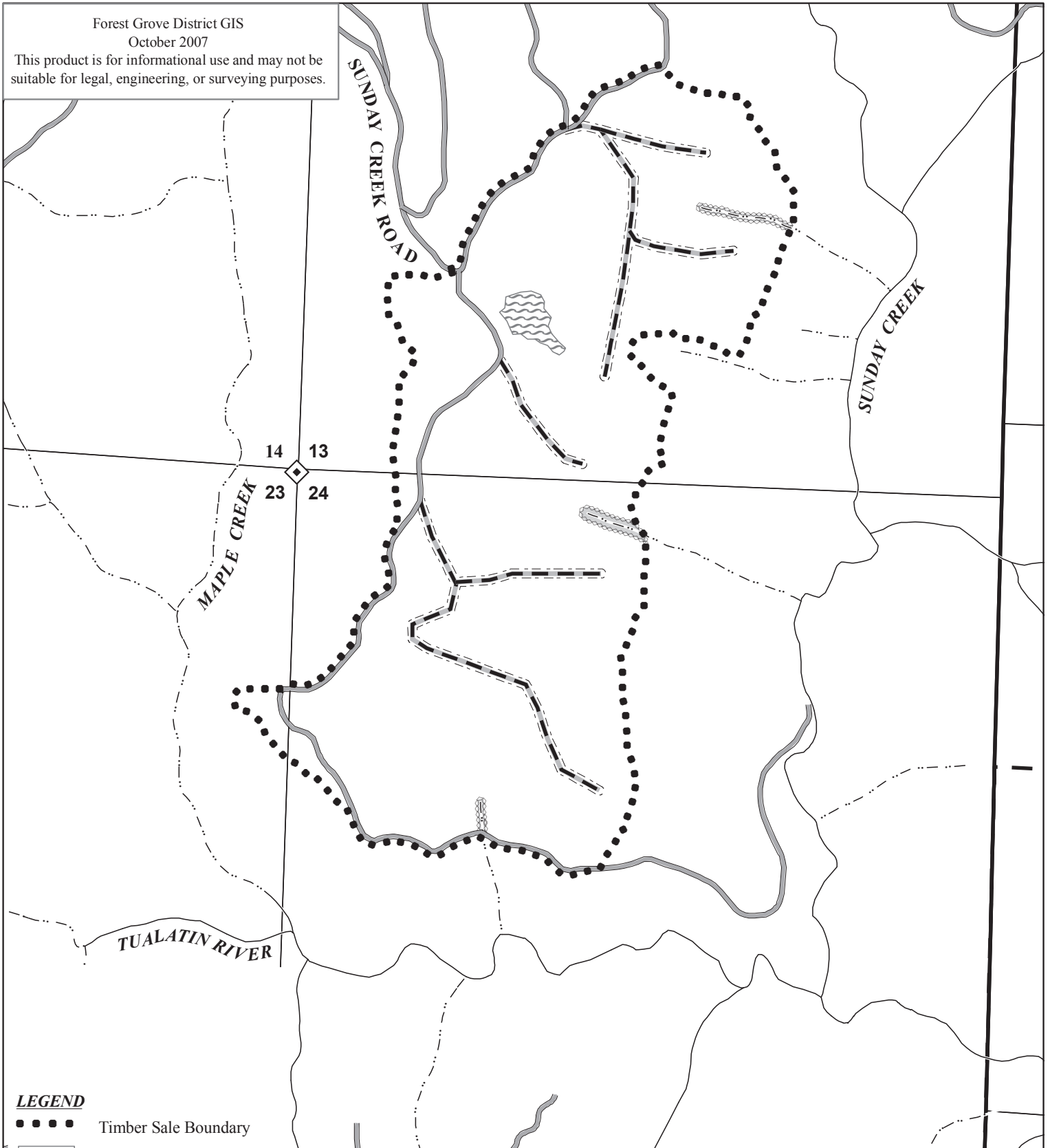
- ● ● ● Timber Sale Boundary
-  Non-thinnable Area
-  Existing Roads
-  Road Construction
-  Road Construction Right-of-Way
-  Perennial Type F Stream
-  Perennial Type N Stream
-  Stream Buffer
-  SLI Polygons (Stand ID #)
- DFC Stand Type
-  Layered
-  Older Forest Structure

FY 2009  
MONTH O' SUNDAYS  
PORTIONS OF SECTIONS 13, 23 & 24, T01S, R06W, W.M.  
WASHINGTON COUNTY, OREGON  
Attachment B: Desired Future Condition



APPROXIMATE NET ACREAGE	
AREA 1	266 ACRES (PC-M)
TOTAL	266 ACRES

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**LEGEND**

- Timber Sale Boundary
- Non-thinnable Area
- Existing Roads
- Road Construction
- Road Construction Right-of-Way
- Perennial Type F Stream
- Perennial Type N Stream
- Stream Buffer

FY 2009  
MONTH O' SUNDAYS  
PORTIONS OF SECTIONS 13, 23 & 24, T01S, R06W, W.M.  
WASHINGTON COUNTY, OREGON

Attachment C: Key Resources

Scale

1:12000

1 inch = 1000 feet



N



APPROXIMATE NET ACREAGE

AREA 1	266 ACRES (PC-M)
<b>TOTAL</b>	<b>266 ACRES</b>