

Pre-Operations Report

Operation Name: Moore Mullenbach
County: Clatsop
Management Basin: Buster

Table 1. Operation Areas, Types and Acres

Area	Type of Operation	Gross Acres	Net Acres
1	MC	39	39
Total	Modified Clearcut	39	39

I. PHYSICAL DESCRIPTION OF OPERATION AREA:

The sale is located on gentle slopes above Mullenbach Road, and adjacent to Moores Creek. The soils are of the Tillamook series. Tillamook soils are deep, well drained, moderately fine textured, rock-free residuum derived from Oligocenene-Miocene siltstones.

II. CURRENT STAND CONDITION:

Area 1 - This area consists of 59 year old red alder, Douglas-fir, western hemlock, and a few scattered spruce and cedar. This stand is classified as a Understory Development (UDS) with a Stand Density Index of 52. Area 1 has approximately 4 snags per acre over 12 inches in DBH, and 1 snag per acre over 24 inches in DBH. The stand has approximately 1,600 cubic feet per acre of down wood in all decay classes, and approximately 400 cubic feet per acre of down wood in decay classes 1 and 2.

Understory development consists primarily of salmonberry, vinemaple, and sword fern.

Table 2. Stand Inventory Information

Area	Prescription	Stand ID ¹	Species	Age	DBH	BA	TPA	SDI	Acres ²
1	MC	24463	RA,DF,H	59	16	200	105	52	39
		Target ³					5		39

¹ The source of stand inventory information is SLI. Age shown is as of 2008.

² The acres are based on GIS and exclude roads, streams buffers, reserve areas, etc.

³ The Target identifies expected stand characteristics (DBH, BA, TPA and SDI) after harvesting has been completed.

III. DESIRED FUTURE CONDITION/VISION:

This sale area has been placed in the General category for it's desired future condition to be managed for healthy vigorous stands of mixed conifer.

This area will be regeneration harvested and planted with a mixture of conifer species. Five to seven conifer trees per acre will be left to provide a source for natural regeneration and future downed wood and snags. A pre-commercial thinning is anticipated at 12 to 17 years when crowns close followed by a commercial thinning at 30 to 40 years of age to ensure continued growth. At age 45 to 50 the stand will be evaluated for either additional thinning or regeneration harvest.

Table 3. Stand Structure Information

Area	Stand ID	Current	Post Harvest ¹	Desired Future	Acres
1	24463	UDS	REGEN	GENERAL	39

¹ The stand is expected to develop into this condition immediately after this operation is completed.

IV. PROPOSED MANAGEMENT PRESCRIPTION:

Area 1 - This area is a modified clearcut that will be replanted with a mixture of conifer species. Minor species found will be reserved from cutting.

Snags: During all harvesting activities, all existing snags will be retained unless deemed to be safety hazards. Where fewer than two hard snags per acre are found to exist during sale layout, opportunities for snag creation or leaving additional live green trees will be implemented to supplement landscape snag levels (FMP, “Landscape Management Strategy 3c. Snags”, pages 4-53 and 4-54).

Green Trees: A combination of methods will be implemented to achieve the green tree retention requirements such as green tree retention areas, stream buffers, and trees scattered across the sale areas (FMP, page 4-53, Paragraph 2). Minor species found may be reserved from cutting; further consideration of those species will be taken during sale layout.

Down Wood: For all harvesting activities, all existing down woody debris will be retained. Down woody debris levels will be assessed and if deficiencies are found to exist on an individual unit, then additional conifer trees and/or conifer logs will be retained to meet the landscape targets for down woody debris as prescribed in the FMP (FMP, “Landscape Management Strategy 3d. Down Wood.” pages 4-54 and 4-55).”

Site preparation on gentle slopes will be done by mechanical slash manipulation. On steeper slopes the site preparation will be accomplished through cable harvesting activities. Planting will be at 300-350 trees per acre with the following species: 75% Douglas-fir, 15% western hemlock, 10% true-firs. Mountain beaver trapping will focus on the sword fern/alder type areas. Animal damage through big game browse to conifer seedlings is anticipated to be high in both sale areas.

Tree protection will be prescribed to the newly planted conifer species; Douglas-fir will receive paper bud caps at initial planting.

V. ESTIMATED TIMBER AND REVENUE OUTPUTS:

Table 4. Timber and Revenue

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

	Conifer	Hardwood	Total
Net Volume (MBF)	1,073	170	1,243
Stumpage Value (\$/MBF)	\$200	\$250	
Estimated Gross Value	\$214,600	\$42,500	\$257,100
		Project Costs:	\$32,660
		Estimated Net Value:	\$224,440

VI. HARVESTING AND ACCESS CONSIDERATIONS:

Access to the harvest sites will be from State owned land to the southeast of the sale. The haul route will be from Soak Alley to Buster Creek Road and out to Highway 103. Approximately 0.4 miles of new road construction (unsurfaced) will be needed for sale access.

Road brushing needs will be assessed during sale layout.

The entire sale will be planned for ground yarding during the dry season.

Table 5. Transportation Management Summary (Miles).

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construct	0.0	0.0	0.0	0.4
Improve	0.0	0.0	0.0	0.3
Maintain	0.9	0.0	0.0	0.0
Close/Block	0.0	0.0	0.0	0.7
Vacate	0.0	0.0	0.0	0.0

VII. AQUATIC RESOURCES AND WATER QUALITY:

Type F and Domestic Use Streams: There is one Type F stream (Moore's Creek) adjacent to the southwest boundary of the sale. This stream contains Coho which is a federally listed fish species. This will have at least a 100 foot buffer.

Aquatic Resource Protection: For all areas, full log suspension is required when cable yarding over streams. No ground-based logging equipment operation is allowed within the stream bank zone. No stream crossings are anticipated during road construction. 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. Culvert installment and replacement in live streams will be conducted between July 1 and Aug. 31. Operations outside of this period will be reviewed with ODFW. If any additional in-stream work is done with this sale, it will all be conducted during in-stream work periods established by ODFW. Riparian management areas result in leave trees adjacent to the stream which protect stream temperature, provide nutrients, protect stream banks, and eventually provide wood to improve fish habitat.

Type N Streams: There are no small perennial Type N streams within all sale areas.

Seasonal Small Type N Streams: Equipment will be excluded from the stream bank zone (within 25' of the channel) to maintain the integrity of the stream channel. Some wildlife trees will be retained within and/or adjacent to the seasonal stream channels.

All streams will be examined to determine stream type and classification during sale layout, and then the specific riparian management area strategies required in the FMP will be implemented. The FMP riparian management area strategies that will be implemented are found in the FMP, Appendix J, "Management Standards for Aquatic and Riparian Areas", pages J-1 through J-16.

VIII. WILDLIFE AND T&E SPECIES CONSIDERATIONS:

The sale area was surveyed to protocol for northern spotted owls in 2004, 2005, 2006, 2007 & 2008. There was a response from the Buster Creek Owls in 2004, 2005, and 2006, however there were no responses in 2007 or 2008. This area will be surveyed again for owls in 2009 and possibly in 2010.

The ODF Northwest Area Biologist determined that the sale area does not contain suitable habitat for Marbled Murrelets.

The sale area was checked against district knowledge for any listed plant location. The sale area was also checked against the Oregon Natural Heritage Program (OHNP) database of known listed plant locations. No listed plant records were identified within the sale area.

IX. SLOPE STABILITY AND GEOTECHNICAL ISSUES:

The initial risk assessment by the geotechnical specialist for the sale is low. A field visit by the geotechnical specialist is not expected to be needed, but will be consulted during sale layout if slope stability concerns are encountered.

X. RECREATION RESOURCES:

This area receives little use, most likely hunting. The Clatsop State Forest Recreation Plan does not list any specific activities for this portion of the basin.

XI. CULTURAL RESOURCES:

There are no known cultural resources within or adjacent to the operation.

XII. SCENIC RESOURCES:

There are no known scenic resources within or adjacent to the operation.

XIII. OTHER RESOURCE CONSIDERATIONS:

Private property lines are located adjacent to the north and west boundary of the sale area. The west boundary was surveyed in 1990. The north boundary is Mullenbach Road.

XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:

This sale is fully within the General Stewardship land management classification.

FY 2010

Moore Mullenbach

Portions of Section 27 of T5N,
R7W, W.M., Clatsop County, OR

Approximate Net Acreage:
Area 1 (MC) 39
Total Sale Acreage = 39 Acres



Legend

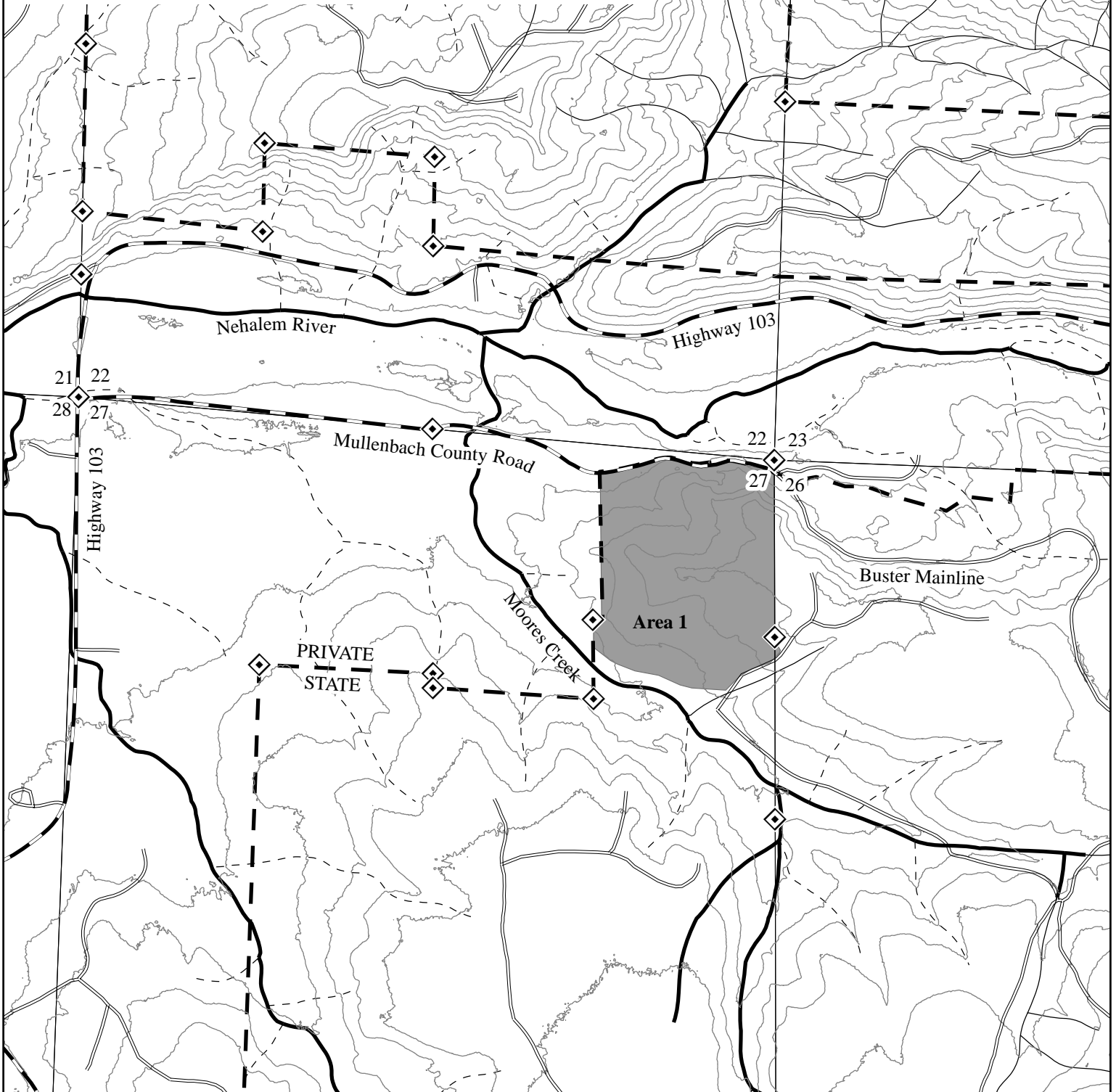
- Known Survey Corners
- Paved Road
- Existing Surfaced Road
- 40' Contour
- Fish Stream
- Nonfish Stream
- Unknown
- Ownership Boundary
- Gross Sale Area

1,000 500 0 1,000 Feet



Approximate Scale 1"=1,000'

Map A: Topography



FY 2010




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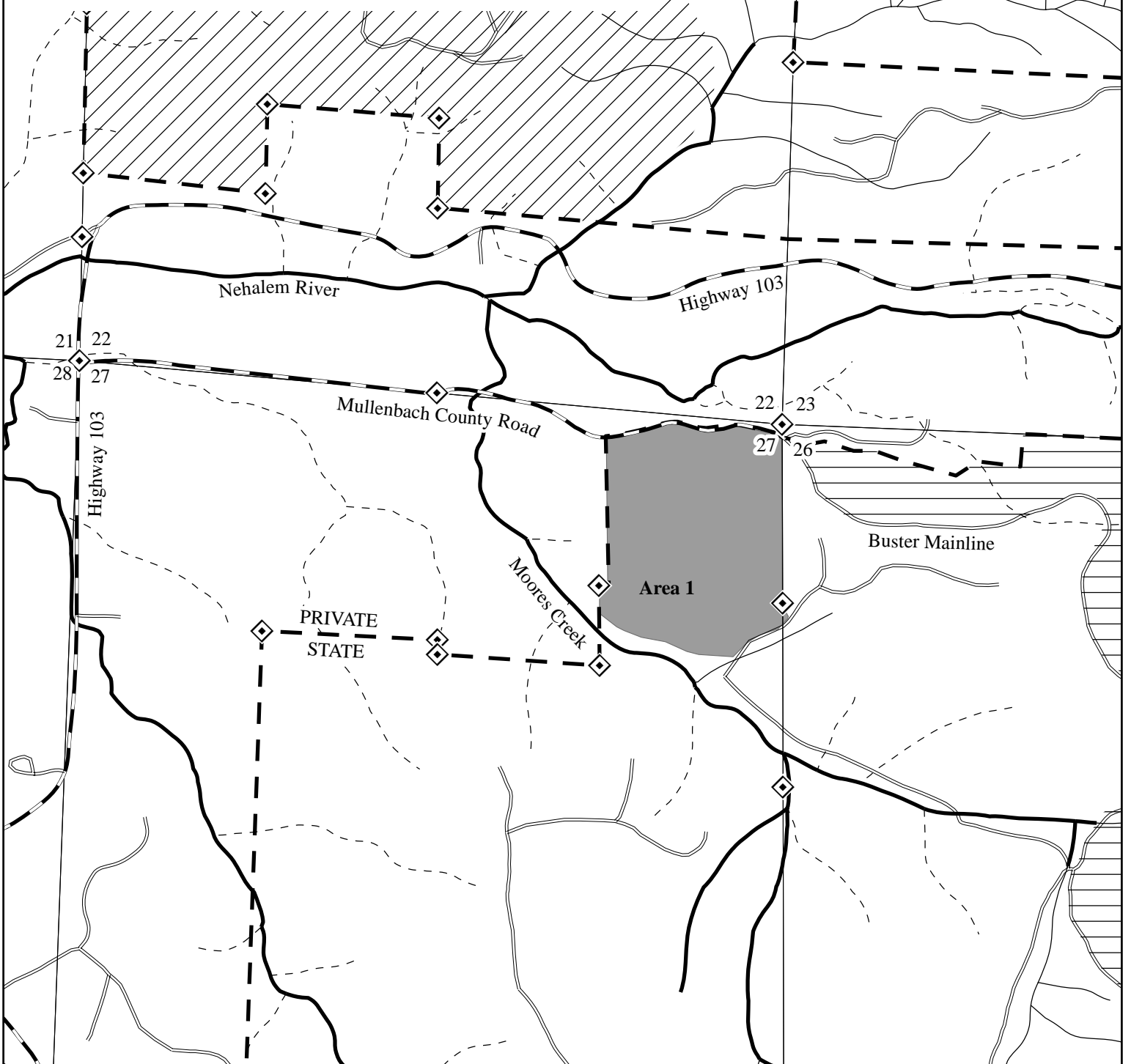
Legend

-  Known Survey Corners
-  Paved Road
-  Existing Surfaced Road
-  Fish Stream
-  Nonfish Stream
-  Unknown Stream
-  LYR
-  OFS
-  Ownership Boundary
-  Gross Sale Area

1,000 500 0 1,000 Feet

Approximate Scale 1"=1,000'

Map B: Desired Future Condition



FY 2010

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Legend

- Known Survey Corners
- Paved Road
- Existing Surfaced Road
- Fish Stream
- Nonfish Stream
- Unknown Stream
- Owl Cluster
- Ownership Boundary
- Gross Sale Area

1,000 500 0 1,000 Feet

Approximate Scale 1"=1,000'

Map C: Key Resources

