

# Pre-Operations Report

**Operation Name:** Alderberry  
**County:** Clatsop  
**Management Basin:** Buster

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

Area	Type of Operation	Gross Acres	Net Acres
1	MC	49	45
2	MC	31	30
Total		80	75

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

Area 1 is located on gentle and moderate sideslopes above and north of Highway 26. Area 1 appears to be entirely within an ancient slump area which Highway 26 passes through. Area 2 is located on gentle and moderate sideslopes above and south of Osweg Creek, which is a tributary to the Nehalem River. Both sale areas are located in the Buster Basin. The soil type is of the Pinochle (PK) series and is deep, well drained, finely textured, rock free residuum derived from Eocene siltstones. The sale areas are within the western hemlock vegetation zone. Site indices for the Pinochle soil averages 130 feet (II+) for Douglas-fir and 100 feet (III-) for western hemlock. The harvest units are situated on opposite sides of a ridge top running northwest/southeast with southerly and northerly facing slopes.

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

Area 1 - The current average age of this stand is approximately 45 years old and is composed with a major component of alder and small patches of large Douglas-fir, hemlock, cedar, spruce, and big leaf maple. The average DBH for this stand is 14 inches. The stand is currently categorized as Understory (UDS).

Area 2 - The current average age of this stand is approximately 45 years old and is composed primarily of alder and small patches of large Douglas-fir, hemlock, cedar, spruce, and big leaf maple. The riparian areas are composed primarily of alder. The average DBH for this stand is 14 inches. The stand is currently categorized as Understory (UDS).

Understory development for all areas consist of sword fern, vinemapple, huckleberry, salmonberry, bleeding heart, wild rose, Oregon grape, oxalis, thimble berry, and trillium.

**Table 2. Stand Inventory Information**

Area	Prescription	Stand ID <sup>1</sup>	Species	Age	DBH	BA	TPA	SDI	Acres <sup>2</sup>
1	MC	24155	RA	45	14	187	170	51	45
		Target <sup>3</sup>					5		45
2	MC	24155	RA	45	14	187	170	51	30
		Target <sup>3</sup>					5		30

1 The source of stand inventory information is SLI. Age shown as of 2007.

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:**

Both sale areas have been targeted for a desired future condition of General. These areas will be regeneration harvested and planted with a mixture of conifer species. At least five conifer trees per acre will be left where feasible to provide a source for natural regeneration and future downed wood and snags. A pre-commercial thinning is anticipated at 12-17 years when crowns close, followed by a commercial thinning at 30-40 years of age to ensure continued growth. At age 45-50 the stand will be evaluated for either additional thinning or regeneration harvest.

**Table 3. Stand Structure Information**

Area	Stand ID	Current	Post Harvest <sup>1</sup>	Desired Future	Acres
1	24155	UDS	REG	GEN	45
2	24155	UDS	REG	GEN	30

<sup>1</sup>The stand is expected to develop into this condition in the forty to fifty years after this operation is completed.

**IV. PROPOSED MANAGEMENT PRESCRIPTION:**

Areas 1 and 2: These areas are both modified clearcuts that will be replanted with a mixture of conifer species at 300 trees per acre.

*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:* An average of five green trees per acre will be scattered and/or clumped throughout Areas 1 and 2, these may not be solely located in riparian areas (FMP, page 4-53, Paragraph 2). All minor species and trees under eight inches DBH will be reserved where operationally feasible. All big leaf maple trees and remnant Douglas-fir will be reserved if not within cable corridors or rights-of-way.

*Down Wood:* For all harvesting activities, all existing down woody debris will be retained. It is anticipated that there will be a shortage of down woody debris in both sale areas due to fact that the stands are composed of primarily alder. If this sale becomes a primary sale landscape level downed wood amounts will be evaluated within the Buster Basin and additional conifer trees and/or conifer logs will be retained within the proposed Winslow sale 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).”

Slash piling is anticipated at both sale areas prior to planting. Tree protection, including bud capping and tubing, will be prescribed during planting in order to protect the seedlings. It is anticipated the stand will need some future herbicide application in order to control competing vegetation. Forest Practice Rules will be followed during herbicide application in order to protect the Domestic Water Source.

Due to the location of the sale to Highway 26 as well as the power lines, ODOT and the power company will be consulted to discuss any harvest concerns they may have. Sale boundaries may be adjusted based on their concerns. Green trees and snags will not be left in any location which may create interference with the powerlines through Area 1.

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).”

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

**Table 4. Timber and Revenue**

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

	Conifer	Hardwood	Total
Net Volume (MBF)	200	900	1100
Stumpage Value (\$/MBF)	\$275	\$500	
Estimated Gross Value	\$55,000	\$450,000	\$505,000
		Project Costs:	\$96,500
		Estimated Net Value:	\$408,500

**VI. HARVESTING AND ACCESS CONSIDERATIONS:**

For sale access, approximately 0.5 miles of new rock road and 0.2 miles of dirt road construction, and 3.5 miles of road improvement along the haul route and within the sale area will be needed. New roads are minor spurs that do not cross perennial streams. They are needed to reduce skidding distance and to facilitate cable logging. Since this area has an established road network, utilizing the existing infrastructure and constructing a few minor spurs was determined the most sound access/harvest system. The dirt spur that will be constructed will be vacated at the completion of harvesting operations.

The eastern portion of Area 2 has two different access routes. A determination of the most feasible route will be done during sale layout. The sale will be predominately cable yarded from ridge top spur roads with some ground yarding settings on areas less than 35% slope. The location of Highway 26 and the powerlines may create challenging harvest operations to parts of Area 1.

Road improvement rock will be obtained at the Sterling Ranch and Flat Iron stockpiles. The pit-run rock for new road construction will be obtained from the Spruce Run Quarry.

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

Activity	Mainline	Collector	Rocked Spur	Dirt Spur
Construct	0.0	0.0	0.5	0.2
Improve	0.0	3.5	0.0	0.0
Maintain	0.0	0.0	0.0	0.0
Close/Block	0.0	0.0	0.0	0.0
Vacate	0.0	0.0	0.0	0.2

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

*Type F and Domestic Use Streams:* There are no known Type F streams within the sale boundaries. Several small streams within the sale areas will be field verified for fish use during sale layout. Osweg Creek, a small Type F stream, is adjacent to the northern boundary of Area 2. This stream also is a domestic water source supplying the Elderberry Nehalem water system. Forest Practice Domestic Water protection standards will apply. Streams will be buffered to the Northwest Forest Management Plan standards. A portable toilet will be required during operation periods in order to ensure protection of the domestic water source.

*Type N Streams:* Several small streams within sale areas 1 and 2 will be field verified for fish use during sale layout. It is unknown at this time if the streams are Type N or F.

*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. To protect water quality during active operations, a variety of methods will be used to prevent sediment from entering live streams. These methods range from use of hay bales in road ditches, to “ditch-outs” away from streams, to complete shutdown of logging and hauling. An option of seasonal logging/hauling is an option that should be looked at to help protect the domestic water source and lessen the expense of road construction.

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.

ODFW Biologists have no stream enhancement projects scheduled for this area at this time.

## **VI. WILDLIFE AND T&E SPECIES CONSIDERATIONS:**

Both sale areas were surveyed to protocol for Northern Spotted Owls and Marbled Murrelets in 2007 with no responses and will be surveyed again in 2008.

The sale area was checked against district knowledge for any listed plant locations. 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.

**VII. SLOPE STABILITY AND GEOTECHNICAL ISSUES:**

This assessment is based off of USGS 1:24,000 topographic maps and available geologic maps. There are no high landslide hazard locations in the entire sale area. Area 1 drains to Quartz Creek. Area 2 drains to Osweg Creek. The risk of landslides delivering directly to either of these streams from the sale area is low. The sale area is located on a known large, deep-seated landslide landform. The geotechnical specialist will be consulted if evidence of recent landslide activity is identified during sale layout.

**VIII. RECREATION RESOURCES:**

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

**IX. CULTURAL RESOURCES:**

No known cultural resources are within or adjacent to the operation.

**X. SCENIC RESOURCES:**

In Area 1, six acres are labeled as level 1 visual classification. This classification is due to the proximity of Area 1 to Hwy 26, which is a designated scenic highway. All of Area 2 is located outside of the Oregon Forest Practices required 150-foot corridor. Steps will be taken to insure the Level 1 visual areas are managed consistent with FMP visual management objectives. (FMP, "Scenic Resources", pages 4-105 to 4-107).

**XI. OTHER RESOURCE CONSIDERATIONS:**

Area 2 is adjacent to a domestic water source for the Elderberry Nehalem water system. Twenty-one acres are classified as Focused-Domestic Water Use.

Some areas within the sale area will require some property surveys or survey monument protection measures. The requirements are as follows:

Area 1 - No survey work required. Ensure protection of highway right of way boundary marker near the SW corner of the sale area. Established, Pinard, 1995.

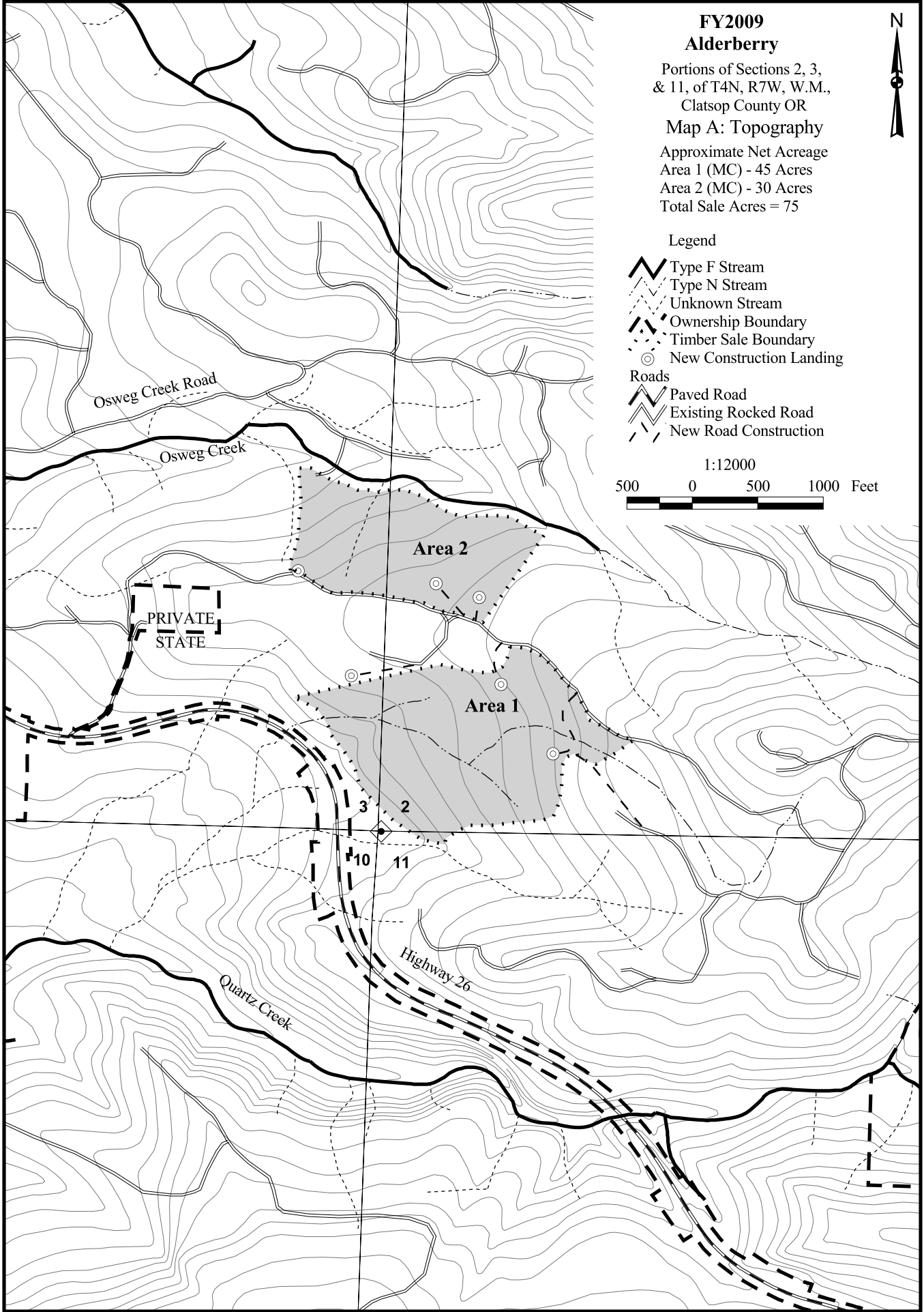
Area 2 - Rewitness and protect ¼ corner to Sections 2 and 3. Established, Amort, 1952.

**XII. LAND MANAGEMENT CLASSIFICATION SUMMARY:**

In the southwest portion of Area 1, the powerline runs adjacent to the sale area for a distance of approximately 700 feet. This is classified as special stewardship; and will be managed for utility purposes.

In Area 1, six acres adjacent to Highway 26 is classified as focused-visual stewardship. This will be managed to meet ODF's visual management requirements. Area 1 will have a green tree retention area adjacent to the southwest and northwest boundaries of the sale area. They are each approximately two acres in size. See Section XII, Scenic Resources, for the management guidelines to be utilized.

In Area 2, twenty-one acres are classified Focused-Domestic Water Use. See Section XII, Scenic Resources, for the management guidelines to be utilized. All other acres in Areas 1 and 2 are classified as "general management."



**FY2009**

**Alderberry**

Portions of Sections 2, 3,  
& 11, of T4N, R7W, W.M.,  
Clatsop County OR

**Map A: Topography**

Approximate Net Acreage

Area 1 (MC) - 45 Acres

Area 2 (MC) - 30 Acres

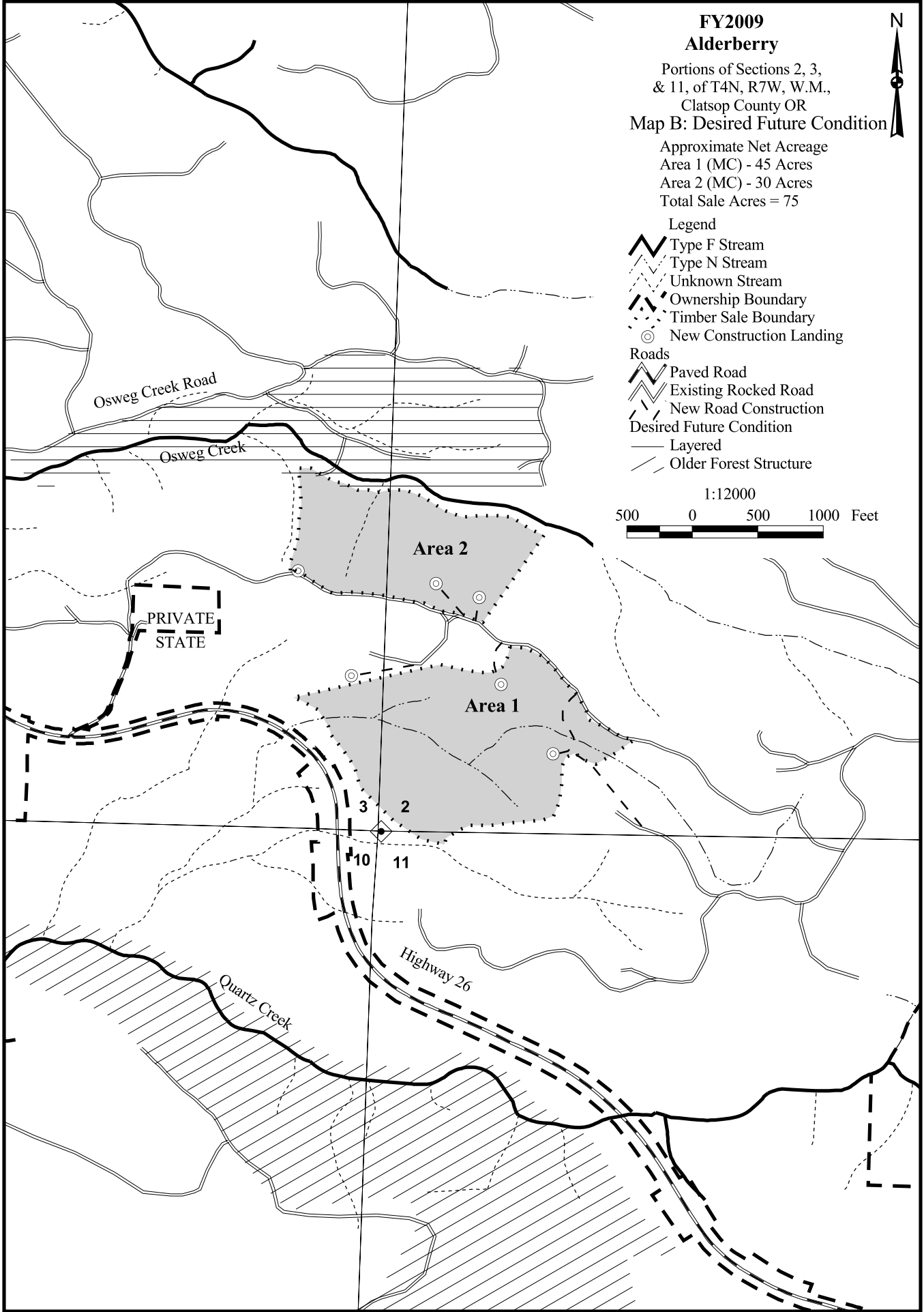
Total Sale Acres = 75

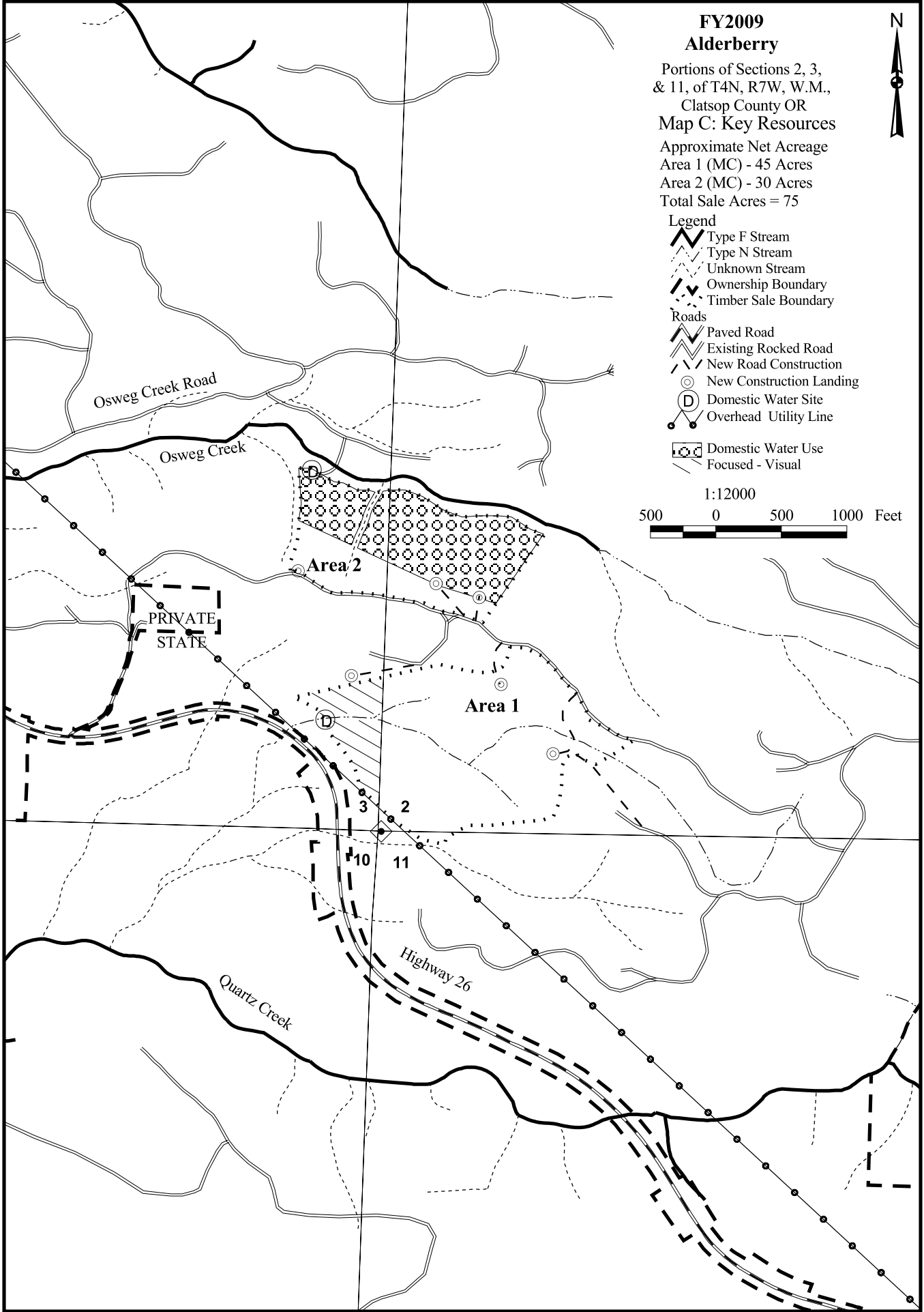
**Legend**

-  Type F Stream
-  Type N Stream
-  Unknown Stream
-  Ownership Boundary
-  Timber Sale Boundary
-  New Construction Landing
- Roads**
-  Paved Road
-  Existing Rocked Road
-  New Road Construction

1:12000

500 0 500 1000 Feet





**FY2009  
Alderberry**

Portions of Sections 2, 3,  
& 11, of T4N, R7W, W.M.,  
Clatsop County OR  
Map C: Key Resources

Approximate Net Acreage  
Area 1 (MC) - 45 Acres  
Area 2 (MC) - 30 Acres  
Total Sale Acres = 75

- Legend**
- Type F Stream
  - Type N Stream
  - Unknown Stream
  - Ownership Boundary
  - Timber Sale Boundary
  - Roads**
  - Paved Road
  - Existing Rocked Road
  - New Road Construction
  - New Construction Landing
  - Domestic Water Site
  - Overhead Utility Line
  - Domestic Water Use Focused - Visual

1:12000  
500 0 500 1000 Feet



Osweg Creek Road

Osweg Creek

PRIVATE  
STATE

Area 2

Area 1

Highway 26

Quartz Creek

3

2

10

11