

Pre-Operations Report

Operation Name: SeShong (Alternative)
County: Tillamook
Management Basin: Trask

Table 1. Operation Areas, Types and Acres

Area	Type of Operation	Gross Acres	Net Acres ¹
1	Modified Clearcut	224	202
Total		224	202

1. The net acres are based on orthophotos and GIS and exclude roads, stream buffers, reserve area and non-required thinning areas.

I. PHYSICAL DESCRIPTION OF OPERATION AREA:

Slopes in the sale have mainly a western aspect. Elevations range from 440 to 1320 feet. The major soil types are Killam and Rye.

The sale is located on the east flank of the South Fork of the Trask River just above Hollywood Camp and the gentle divide between the South and East Forks of the Trask River. There are scattered bands of steep and very steep side-slopes and draws throughout the sale especially in the northern and western portions. The sale is underlain by sedimentary origin rocks of the Yamhill Formation. There is a "landslide deposit" mapped in the southern portion of the sale area (Wells et. al.). Refer to the Overview of Harvest Operations in the Summary document for information.

II. CURRENT STAND CONDITION:

Table 2. Stand Inventory Information³

Area	Prescription	Stand ID ¹	Species	Age	DBH	BA	TPA	SDI	Net Acres ²
1	MC	219	DF, RA	37	12.6	142	163	39	202

1. The source of stand inventory information is from SLI.

2. The net acres are based on orthophotos and GIS and exclude roads, and stream buffers, and non-required thinning areas. Modified clear cut acres are not contiguous and do not exceed 120 acres.

3. These numbers are based on plot data taken to this point and final numbers may differ significantly. The directive for minor and major modifications will be followed for further review.

The sale area burned in the 1933 Tillamook Fire, the 1939 Saddle Mt. Fire, and the 1951 North Fork/Elkhorn Fire. This area was seeded with Douglas-fir in 1952

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and again in 1960. This area was then re-planted with Douglas-fir in 1968. This area has had no prior stand management.

Stand Level Inventory (SLI) has not been completed on the sale area but it is classified as 100% Closed Single Canopy (CSC) according to the district stand summary information (1999). This area will be further evaluated (as defined by the July 2004 guidance, “*Planned Sale Inventory Requirements – Alternative to Full Stand Level Inventory*”). See Table 2 for specific stand data.

Area 1 is primarily a Douglas-fir plantation that has alder dominated riparian areas. There are also several small pockets of alder (less than 1 acre) scattered throughout the area.

The Douglas-fir in this area has symptoms of Swiss needle cast (SNC) and crown ratios ranging from 20-30%, resulting in slowed diameter and height growth. Due to stand age and site quality, the alder in this stand has poor height and diameter growth. The alder was aerially sprayed in the 1970’s to release the planted conifer, resulting in alder trees with short boles and many tops. No other significant insect or disease problems have been discovered at this time. The brush component in all the sale areas is comprised primarily of dense salmonberry and swordfern.

There are some large snags in various states of decay and some hard snags created from natural causes. Down wood consists of scattered large old logs (36”+) in Class 3 and 4 stages of decay and some windthrow in decay classes 1 and 2.

III. DESIRED STAND CONDITION AND VISION:

Table 3. Stand Structure Information

Area	Stand ID	Current	Post Harvest ¹	Desired Future	Net Acres
1	219	CSC	REG	OFS	202

1. 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.

See Section IV: Proposed Management Prescription for more information on Green Tree, Down Wood, and Snag Strategies during operation. Also refer to Landscape Design in the Summary document for more information on strategies to move the district toward Desired Future Condition (DFC) goals.

The DFC for this stand is Older Forest Structure. Because of small live crown ratios, poor growth, and Swiss Needle cast; the present stand is not a good candidate for establishing a pathway that maintains productivity and reach the DFC in a reasonable amount of time. After the regeneration harvest the stand will be composed of legacy structures retained from the present stand and a

young cohort of Douglas-fir, western hemlock and Douglas-fir trees. The green trees, including some hardwoods, retained on the site, provide a scattered overstory and also contribute to the down wood and snag recruitment as mortality occurs. In approximately 60 years the combination of residual trees, multiple species and trees size will provide a Layered stand. Periodic thinnings will produce a multilayered stand with some of the larger tree trees approaching 32 inches in diameter in about 80 years. There is a high probability that this stand will meet the requirements of Older Forest Structure at this time.

IV. PROPOSED MANAGEMENT PRESCRIPTION AND PATHWAY:

The prescriptions described below are based on the current stand condition such as overall tree and stand growth, species mix, stand density, and stand health. **See table 2 for prescription targets.**

In the sale area, merchantable Douglas-fir and alder will be removed. A diameter limit will be used to select Douglas-fir trees to be left. Current estimates are 3-5 trees per acre in the unit, combined with leave trees in buffers and outside the sale will total approximately 9 to 15 trees per acre. Non-merchantable alder will be left where possible. All other species will be reserved.

This harvest will remove the slow growing sprayed alder and the Douglas-fir that have poor crown ratios and slow growth. The residual trees will be distributed both in groups and scattered across the area. A component of alder and other conifer will be retained in the sale areas and stream buffers. The area will be reforested with a mixture of conifer species: western hemlock, SNC tolerant Douglas-fir, western red cedar and/or noble fir. A pre-commercial thinning is anticipated at 12 to 17 years when the crowns begin to close. A commercial thinning at age 40 will produce a stand that has an average diameter of about 16 inches and 125 trees per acre. This will keep the stand on the desired trajectory, and produce revenue. Other treatments, such as the creation of small gaps, may be considered at this time to increase diversity. At about 60 years the stand will have an average diameter of 20 inches. At this time it will be evaluated for Layered characteristics and another thinning will likely be prescribed.

Green Tree, Down Wood and Snag Strategies

A variety of methods will be used to achieve green tree retention requirements. These residual green trees will supplement the future stand by promoting growth of dominant/co-dominant leave trees. Small non-merchantable hardwood and conifer will also be retained where possible. These leave trees function as future source of legacy trees, snags and down wood recruitment across the landscape. Green trees will be left on precipitous slopes, headwalls, and those areas not reached by conventional logging methods. Stream buffers adjacent to small perennials and the outer Riparian Management Area (RMA) will also contribute additional green trees. Many of these areas will be posted so they are outside of the timber sale boundary.

Existing down wood will be left in the sale areas. Down wood recruitment is expected through mortality and windthrow of residual or leave trees, felled snags and tops left during harvest. Obvious defect in conifer logs will be bucked out in all harvest areas to enhance down wood levels. Small non-merchantable hardwood and conifer will be retained where possible in harvest units with the expectation they will become short term snags and down wood. Tops resulting from ground yarding will also be left in the unit.

Existing snags not determined to be a safety hazard will be retained and any felled snags will be left for down wood. Creation of snags is expected during harvest activities (rub trees, lift trees, or tail trees) and over time by natural processes.

Due to the size of the trees it is unrealistic to expect that the snag and down wood targets in the FMP will be met with this operation. During sale layout an assessment will be done to help determine the best green tree retention prescription to help meet these goals in the future.

V. ESTIMATED TIMBER AND REVENUE INFORMATION:

Table 4. Timber and Revenue

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

	Conifer	Hardwood	Total
Net Volume (MBF)	1046	1083	2129
Stumpage Value (\$/MBF)*	\$250	\$250	
Estimated Gross Value	\$261,500	\$270,750	\$532,250
		Project Costs:	\$91,453
		Estimated Net Value:	\$440,797

**Douglas-fir stumpage values based on harvest type.*

VI. HARVESTING AND ACCESS CONSIDERATIONS:

The sale areas are accessed via South Fork Trask Road and Bushong Road. These are currently all weather, crushed rock roads. The Trask Road Use fee will be applied to this sale. See maps for specific road locations and conditions.

Approximately 1.07 miles existing unsurfaced trails will be improved which includes widening, culvert spot rocking, sidecast pullback, and adding new culverts. This work will bring all roads up to standards described in *the Forest Roads Manual*. At the conclusion of this sale these trails will be put back into trail status

Approximately 0.4 miles of road will be to provide access for cable yarding areas. It is anticipated that the new construction will be closed after harvest. Following reforestation the remaining roads within the sale areas will be reviewed for closure. See summary document for more information on road closure. The operation will be 80% cable yarding and 20% ground yarding.

Table 5. Transportation Planning Summary (Miles)⁴

Activity	Mainline	Collector	Rocked Spur ¹	Dirt Spur ¹
Construct				.40
Improve				1.07
Maintain ²		9.25		
Close/Block ³				0.4
Vacate ³				

1. Additional roads may be built by the operator at the time of harvest and will be approved by the State through the Operations Plan. These will be short dead end spurs and closed or blocked after harvest
2. All roads accessing the sale area will be maintained during the life of the timber sale contract. Maintenance miles in the table are those roads not being constructed or improved.
3. Roads not closed/blocked or vacated at the end of the sale will be reviewed for closure after reforestation is established.
4. The numbers in this table reflect planned Project Work associated with the sale.

VII. AQUATIC RESOURCES AND WATER QUALITY:

A watershed analysis has been completed for the Trask basin. Recommendations from this assessment will be incorporated into the sale where feasible.

The South Fork of the Trask is a large Type F streams that is adjacent to the sale area. There are additional unnamed small Type N streams within the sale areas. These streams will be reviewed and protected appropriately during sale layout based on flow, topography, and terrain. The inner and outer riparian zones of these Type N streams will be managed towards mature forest condition where possible.

Oregon Department of Fish and Wildlife (ODFW) will be requested to complete stream surveys before sale layout begins. Streams of unknown status will be treated as Type F until surveys are completed to verify fish use.

Stream buffers within or adjacent to harvest unit boundaries will be managed according to *Forest Management Plan* Riparian Strategies. The riparian areas

will be reviewed during sale layout for current stand conditions and/or operational constraints for implementing FMP strategies.

ODFW fish biologist will work with ODF to identify possible stream enhancement project areas to incorporate wood placement into the stream with harvest activities.

Approximately 3 net acres of the sale are within the East Fork Trask sub-basin. This sub-basin has been identified as a Salmon Anchor Habitat (SAH) Basin. The SAH Basin Strategies will be used in addition to the FMP Riparian Strategies at the time of sale layout and contract development. See the Salmon Anchor Summary Table for tracking of acres managed in each basin.

Refer to Aquatic Resource Protection Strategies in the Summary document for information on in the "in stream work period" road work and stream improvement projects.

VIII. T&E SPECIES CONSIDERATIONS:

The sale area has been reviewed with the ODF Northwest Oregon Area Biologist. Surveys for marbled murrelets and northern spotted owls are not required for SeShong due to the absence of potentially suitable habitat.

T & E Plant species: The sale areas were checked against the Oregon Natural Heritage Program (ONHP) database of known threatened or endangered listed plant locations as well as local records in the Land Management Classification System (LMCS). No listed plants were identified within or adjacent to the sale areas.

IX. SLOPE STABILITY AND GEOTECHNICAL ISSUES:

There are bands of steep to very steep side-slopes and draws located throughout the sale especially in the northern and western portions. The initial risk assessment by the geotechnical specialist for the sale is moderate. The geotechnical specialist will be consulted during sale layout field work to determine if a field visit is necessary. The landslide deposit in the southern portion of the sale area is not expected to present any risk due to the deep-seated nature of deposit, however should there be any indication of active movement observed during field layout the geotechnical specialist will be consulted.

A small portion of the sale (approximately 3 acres) has been identified as SAH Basin and the slope stability SAH Strategies will be used at the time of contract development. See the Summary Document for more information.

X. RECREATION RESOURCES:

The sale area is designated as Motorized in the *Tillamook State Forest Comprehensive Recreation Plan* (1993). This sale has been reviewed by the District Recreation Coordinator.

Bushong Lower Loop is an Off Highway Vehicle (OHV) trail that is within the sale area. Bushong is a 4WD trail that is also within the sale area. Short term closure of these trails will occur to facilitate logging and public safety. Portions of these trails will be improved for logging access. A plan will be developed in conjunction with the District Recreation Coordinator to address these situations. Slash will be removed from the trails upon completion of the operation. Recreational use common to this area includes camping, fishing, swimming, 4WD, and OHV use.

XI. CULTURAL RESOURCES:

The *Tillamook State Cultural Assessment* does not list cultural sites within the proposed sale boundary.

XII. SCENIC RESOURCES:

The sale area has a visual classification of Level 2, moderate sensitivity. The sale will be reviewed by the Public Use Coordinator to determine methods to minimize visual impact. There will be some visual impact until green up occurs.

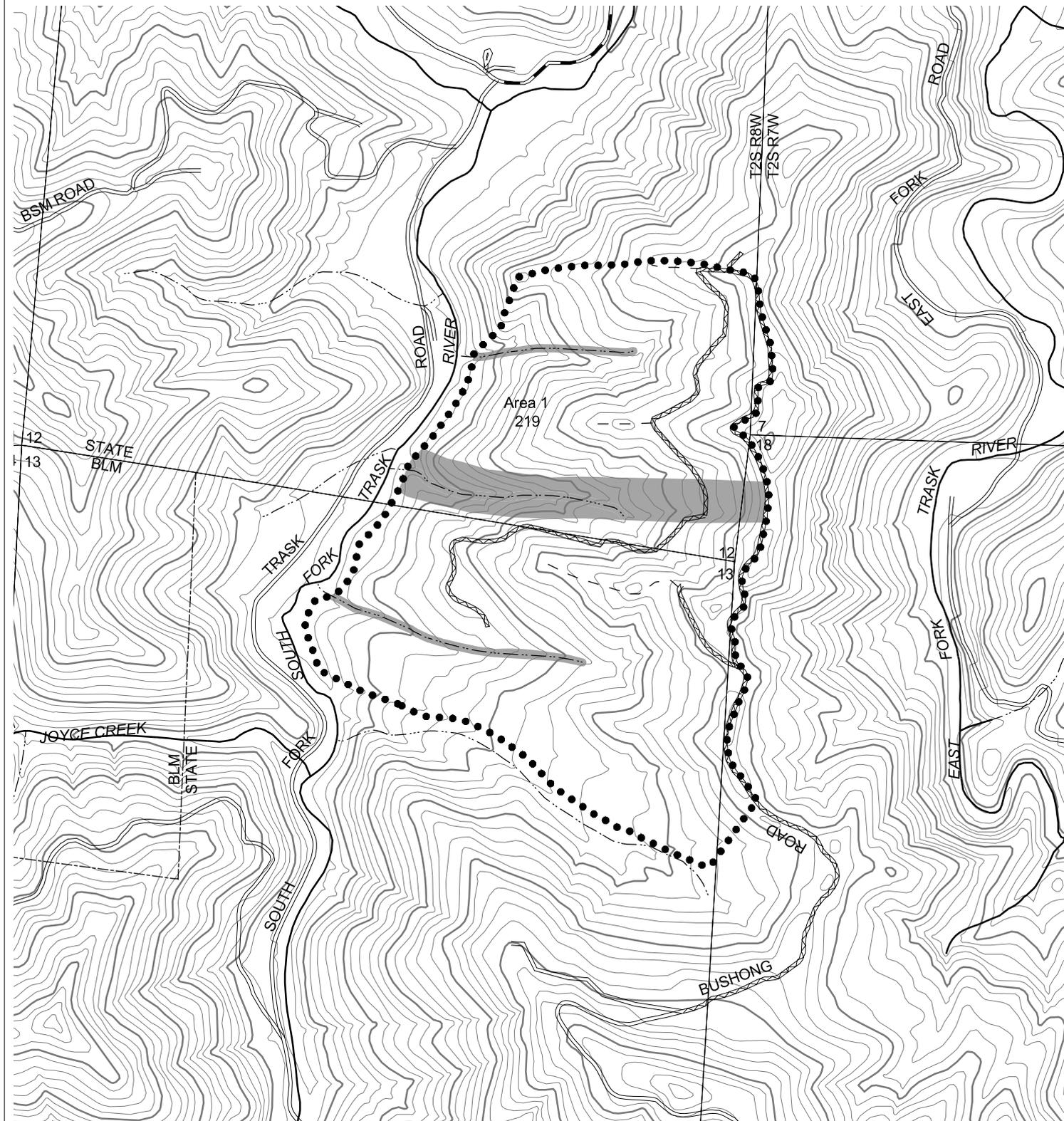
XIII. OTHER RESOURCE CONSIDERATIONS:

None known.

XIV. LAND MANAGEMENT CLASSIFICATION SUMMARY:

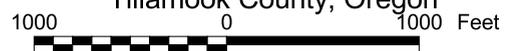
The sale area contains Focused and Special, Aquatic and Riparian Habitat. See Section VII, Aquatic Resources and Water Quality, for the management guidelines to be utilized. The sale areas also contain Focused, Wildlife Habitat. (See Section VIII, T&E Species Considerations) Focused, Recreation and Deeds, (See Section X, Recreation Resources).

Boundary lines depicted on Attachment C are approximate; exact locations and site specific management activities will be determined during the sale preparation process.



- Contour Interval 40'
- +--- Area boundary
 - Sale boundary
 - Ownership boundary
 - Perennial Type-F stream *
 - Perennial Type-N stream *
 - ==== Unsurfaced road
 - ===== Surfaced road
 - State/Federal highway
 - ==== Legacy road
 - xxxxxx Blocked road
 - - - Road construction
 - County road
 - T T Transmission line

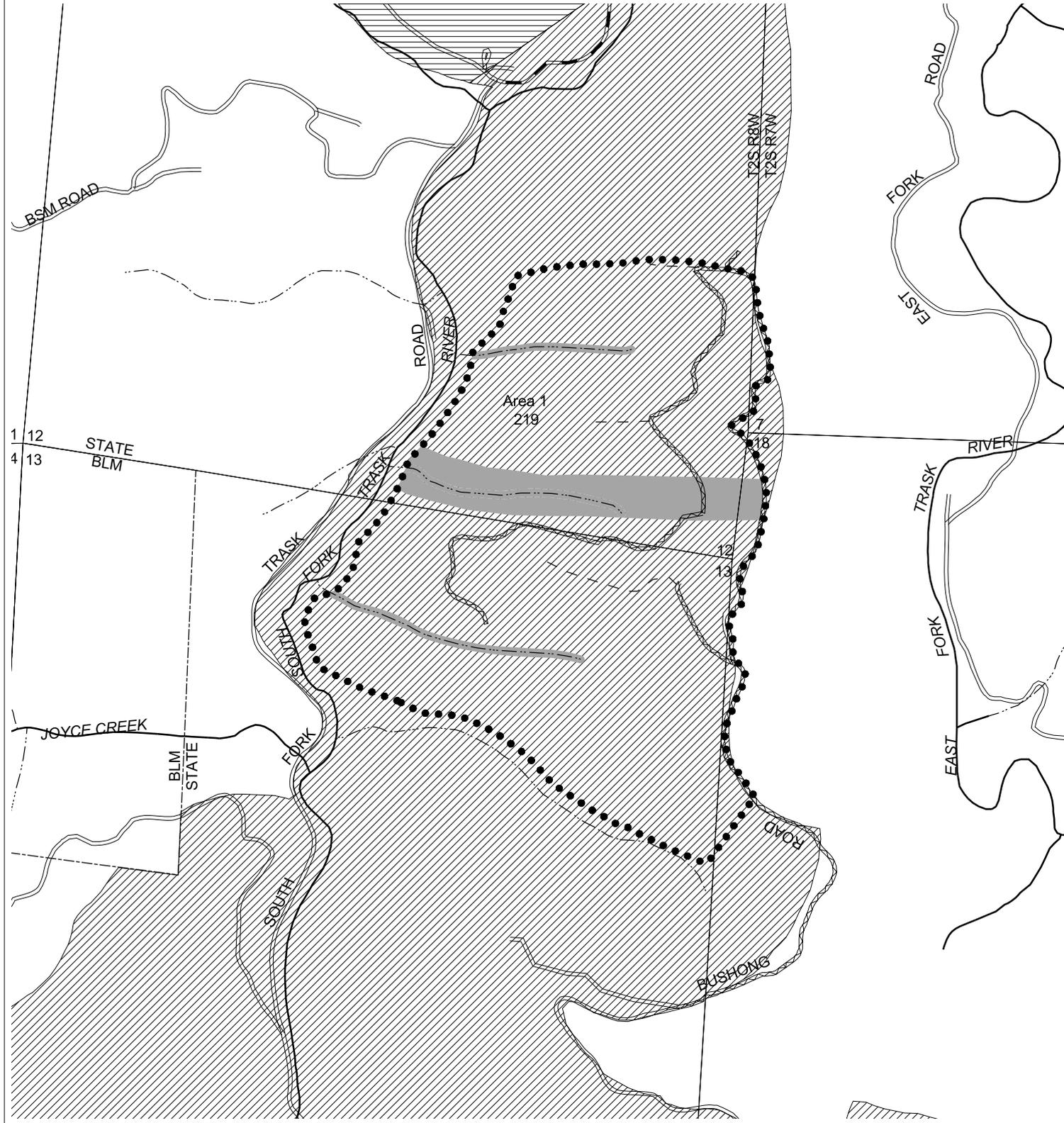
Se Shong
-- Topography --
2008 SALE PLAN
TILLAMOOK DISTRICT
 Portions of Sections 7 and 18, T2S, R7W,
 and Portions of Sections 12 and 13,
 T2S, R8W, W. M.
 Tillamook County, Oregon



Tillamook District GIS
 Jan 2007
 This product is for informational use and
 may not have been prepared for, or suitable
 for legal, engineering, or surveying purposes.

Area	Type of Operation
1	MC

* Streams of unknown fish presence are not shown but will be surveyed prior to the sale



- Desired future condition
- Layered
 - Older forest
 - Area boundary
 - Sale boundary
 - Ownership boundary
 - Perennial Type-F stream *
 - Perennial Type-N stream *
 - Unsurfaced road
 - Surfaced road
 - State/Federal highway
 - Legacy road
 - Blocked road
 - Road construction
 - County road
 - Transmission line

Se Shong
-- Current and Future Condition --
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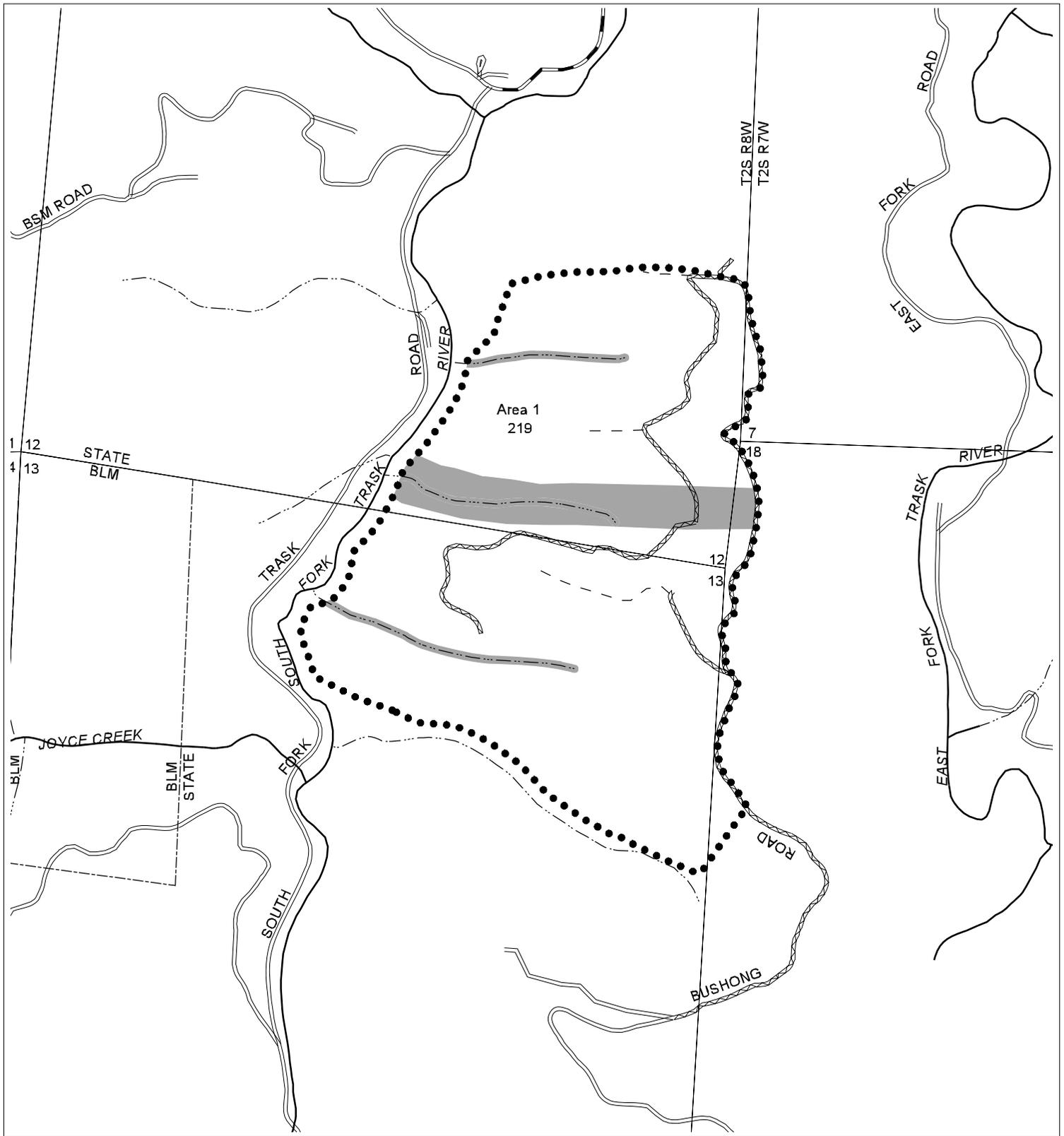
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Area	Type of Operation
1	MC

* Streams of unknown fish presence are not shown but will be surveyed prior to the sale



- Buffer
- Non-required thinning
- Area boundary
- Sale boundary
- Ownership boundary
- Perennial Type-F stream *
- Perennial Type-N stream *
- Unsurfaced road
- Surfaced road
- State/Federal highway
- Legacy road
- Blocked road
- Road construction
- County road
- Transmission line

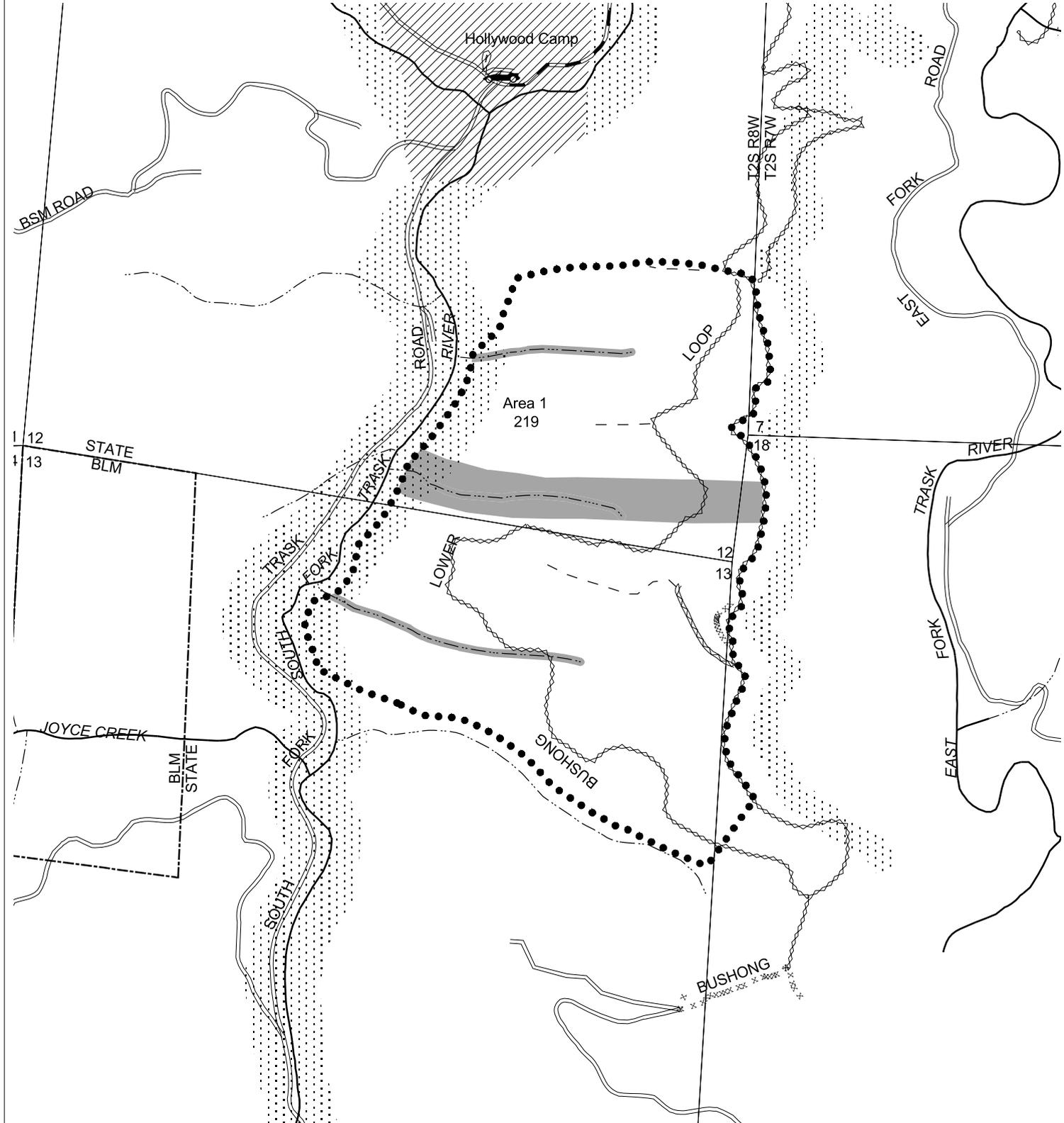
Se Shong
-- Key Resources --
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Area	Type of Operation
1	MC

* Streams of unknown fish presence are not shown but will be surveyed prior to the sale



- Campground
- Day Use Site
- OHV Staging Area
- Trail Head
- Boat Launch
- Interpretive or Administrative Site
- Stewardship
- Focused
- Special
- OHV trail
- Non-motorized trail
- Area boundary
- Sale boundary
- Ownership boundary
- Perennial Type-F stream *
- Perennial Type-N stream *
- Unsurfaced road
- Surfaced road
- State/Federal highway
- Legacy road
- Blocked road
- Road construction
- County road
- Transmission line

Se Shong
--Key Resources/Recreation --
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TILLAMOOK DISTRICT
 Portions of Sections 7 and 18, T2S, R7W,
 and Portions of Sections 12 and 13,
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1000 0 1000 Feet

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Area	Type of Operation
1	MC

* Streams of unknown fish presence are not shown but will be surveyed prior to the sale