

## Pre-Operations Report

**Operation Name:** Bushong Road

**County (%):** Tillamook (100%)

**Elevation:** 523 - 2,149 ft

**Legal Description:** T2S R7W, Section(s) 18, 19, 20, 30; T2S R8W, Section(s) 13, 24, 25

**Tax Code(s):** 901, 801

**BOF%:** 100    **CSL%:** 0

**Sale Quarter:**

### I. VOLUME AND VALUE SUMMARY

**Table 1. Types, Acres, and Value**

| Unit                                                                                                                                                                                                                                     | Harvest Type | Anticipated Product <sup>c</sup> | Gross Acres | Net Acres | MBF/ Acre <sup>a</sup> | MBF/ Unit <sup>a</sup> | \$/MBF <sup>b</sup> |             | \$/Unit   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------------|-------------|-----------|------------------------|------------------------|---------------------|-------------|-----------|
| 366                                                                                                                                                                                                                                      | CC           | DF-M, RA-S                       | 37          | 26        | 18.0                   | 468                    | \$300               |             | \$140,400 |
| 527                                                                                                                                                                                                                                      | CC           | DF-M, RA-S                       | 110         | 93        | 18.0                   | 1,674                  | \$300               |             | \$502,200 |
| 869                                                                                                                                                                                                                                      | CC           | DF-M, RA-M                       | 138         | 117       | 18.0                   | 2,106                  | \$300               |             | \$631,800 |
| 870                                                                                                                                                                                                                                      | CC           | DF-S, RA-S                       | 96          | 70        | 18.0                   | 1,260                  | \$300               |             | \$378,000 |
| 938                                                                                                                                                                                                                                      | CC           | DF-M, RA-M                       | 117         | 93        | 18.0                   | 1,674                  | \$300               |             | \$502,200 |
| Total                                                                                                                                                                                                                                    |              | Regeneration                     | 498         | 399       |                        | 7,182                  |                     |             |           |
|                                                                                                                                                                                                                                          |              | Partial Cut                      | 0           | 0         |                        | 0                      |                     |             |           |
|                                                                                                                                                                                                                                          |              |                                  |             |           |                        | Gross Value            |                     | \$2,154,600 |           |
| a. Estimated harvest volume per acre for Unit.                                                                                                                                                                                           |              |                                  |             |           |                        | Project Costs          |                     | \$267,200   |           |
| b. Estimated ‘price’ (excluding Project Costs)                                                                                                                                                                                           |              |                                  |             |           |                        | Net Value              |                     | \$1,887,400 |           |
| c. Anticipated Product (AA-B-C) – AA) SLI species code of the bid species, B) Size Class (S – small [average DBH < 15], M – medium [average DBH 15 to 23], L – large (average DBH > 23)], C) Special Product (P – Premium, H – Hardwood) |              |                                  |             |           |                        |                        |                     |             |           |

### II. CURRENT STAND CONDITION:

**Table 2. Stand Inventory Information**

| Unit | Stand ID | Measured/Imputed <sup>a</sup> | Species | Age | TPA | DBH | BA  | SDI | Net Acres <sup>b</sup> |
|------|----------|-------------------------------|---------|-----|-----|-----|-----|-----|------------------------|
| 366  | 31711    | M                             | DF,RA   | 54  | 102 | 15  | 123 | 32% | 7                      |
| 366  | 31713    | M                             | DF,RA   | 54  | 115 | 17  | 182 | 45% | 18                     |
| 527  | 31711    | M                             | DF,RA   | 54  | 102 | 15  | 123 | 32% | 41                     |
| 527  | 31713    | M                             | DF,RA   | 54  | 115 | 17  | 182 | 45% | 22                     |
| 527  | 37757    | M                             | DF,RA   | 63  | 117 | 16  | 165 | 42% | 29                     |
| 869  | 32183    | M                             | DF,RA   | 18  | --  | --  | --  | 0%  | 16                     |
| 869  | 32720    | M                             | RA,BM   | 54  | 136 | 16  | 191 | 48% | 13                     |
| 869  | 37691    | M                             | RA,DF   | 54  | 202 | 14  | 225 | 60% | 18                     |
| 869  | 37692    | I = 37618                     | DF,RA   | 54  | 139 | 16  | 198 | 50% | 33                     |
| 869  | 37693    | I = 37049                     | RA,DF   | 54  | 73  | 18  | 126 | 31% | 15                     |
| 869  | 37694    | I = 37626                     | DF,RA   | 54  | 136 | 16  | 197 | 50% | 12                     |
| 869  | 37695    | I = 32720                     | RA,BM   | 54  | 136 | 16  | 191 | 48% | 7                      |
| 869  | 38594    | I = 99999                     | DF,RA   | 2   | --  | --  | --  | 0%  | 2                      |
| 870  | 32184    | M                             | DF,RA   | 18  | 469 | 6   | 97  | 36% | 2                      |

|     |       |           |       |    |     |    |     |     |    |
|-----|-------|-----------|-------|----|-----|----|-----|-----|----|
|     |       |           |       |    |     |    |     |     |    |
| 870 | 32688 | M         | DF,RA | 54 | 98  | 18 | 173 | 42% | 7  |
| 870 | 37682 | M         | RA,DF | 54 | 243 | 14 | 250 | 67% | 24 |
| 870 | 37686 | I = 37691 | RA,DF | 54 | 202 | 14 | 225 | 60% | 10 |
| 870 | 37687 | I = 37691 | RA,DF | 54 | 202 | 14 | 225 | 60% | 15 |
| 870 | 37751 | I = 37232 | DF,RA | 54 | 160 | 14 | 176 | 47% | 8  |
| 870 | 37757 | M         | DF,RA | 63 | 117 | 16 | 165 | 42% | 2  |
| 938 | 32688 | M         | DF,RA | 54 | 98  | 18 | 173 | 42% | 6  |
| 938 | 37667 | M         | DF,RA | 63 | 141 | 16 | 200 | 50% | 20 |
| 938 | 37757 | M         | DF,RA | 63 | 117 | 16 | 165 | 42% | 68 |

- a. Identify the source of stand inventory information. Use the following codes: M = Measured SLI data, I = Imputed SLI data, P = Pre-Cruise Plots, O = other (if other, describe below).
- b. Net Acres have been rounded to the nearest whole acre in this table. Stand that comprise less than one acre of a harvest unit are not reported in this table, so the total "Net Acres" per unit in this table may not equal the total "Net Acres" per unit in table 1.

- These stands were planted, and portions of all four sale areas were commercially thinned in 2001. Portions of Units 869 and 870 were clearcut harvested in 2005. These areas will be yarded through so are included in the sale boundaries, although the younger trees within them will not be targeted with this harvest. Additionally, the northeastern-most portion of Unit 869 was clearcut harvested in 2015 and is only included because some trees may be needed for tail tree holds and may be subsequently felled.
- The 18-year-old trees listed for 32183 in Unit 869, and 32184 in Unit 870, reflect the small portions of the units that were previously harvested (noted above). The younger trees in these acres will not be targeted for harvest.
- The stand boundary for 38594 is drawn incorrectly. Unit 869 does not include 2-year-old trees. The 2 acres shown in the table for stand 38594 should be included with stand 37691 and is shown as such in the remainder of this document.

**Table 3. Additional Stand Information**

| Unit | Stand ID | Snags/<br>Acre <sup>a</sup> | Down Wood/<br>Acre <sup>b</sup> | Forest Health |           |                    |
|------|----------|-----------------------------|---------------------------------|---------------|-----------|--------------------|
|      |          |                             |                                 | SNC           | Phellinus | Other <sup>c</sup> |
| 366  | 31711    | 3                           | 552                             | Yes           | --        | --                 |
| 366  | 31713    | 13                          | 172                             | Yes           | --        | --                 |
| 527  | 31711    | 3                           | 552                             | Yes           | --        | --                 |
| 527  | 31713    | 13                          | 172                             | Yes           | --        | --                 |
| 527  | 37757    | 3                           | 33                              | Yes           | --        | --                 |
| 869  | 32183    | 0                           | 2208                            | Yes           | --        | --                 |
| 869  | 32720    | 20                          | 45                              | Yes           | --        | --                 |
| 869  | 37691    | 16                          | 235                             | Yes           | --        | --                 |
| 869  | 37692    | 17                          | 173                             | Yes           | --        | --                 |
| 869  | 37693    | 4                           | 39                              | Yes           | --        | --                 |
| 869  | 37694    | 18                          | 80                              | Yes           | --        | Sprayed Alder      |
| 869  | 37695    | 20                          | 45                              | Yes           | --        | --                 |

|     |       |    |      |     |    |                             |
|-----|-------|----|------|-----|----|-----------------------------|
| 870 | 32184 | 0  | 1450 | Yes | -- | --                          |
| 870 | 32688 | 9  | 843  | Yes | -- | Sprayed Alder, Scotch Broom |
| 870 | 37682 | 6  | 213  | Yes | -- | Sprayed Alder, Scotch Broom |
| 870 | 37686 | 16 | 235  | Yes | -- | Sprayed Alder, Scotch Broom |
| 870 | 37687 | 16 | 235  | Yes | -- | Sprayed Alder, Scotch Broom |
| 870 | 37751 | 14 | 117  | Yes | -- | Sprayed Alder, Scotch Broom |
| 870 | 37757 | 3  | 33   | Yes | -- | Sprayed Alder, Scotch Broom |
| 938 | 32688 | 9  | 843  | Yes | -- | Sprayed Alder               |
| 938 | 37667 | 7  | 100  | Yes | -- | Sprayed Alder               |
| 938 | 37757 | 3  | 33   | Yes | -- | Sprayed Alder               |

- Identify the number of hard snags per acre (decay classes 1 and 2)
- Identify the cubic feet per acre of hard down wood (decay classes 1 and 2)
- Describe "Other" forest health issue.

### III. WILDLIFE AND T&E SPECIES CONSIDERATIONS:

Foresters need to read the Biological Survey Tracking Form (BSTF) prior to sale layout in order to ensure all T&E related information is understood. (Consult the ODF Wildlife Biologist assigned to the District for the BSTF.)

- A portion of the operation is within (Check all that apply):

☐ TAS    ☐ NSO Circle or Home Range, or Baseline or Elevated Baseline Thiessen (BA required)  
☐ MMMA (BA required)    ☒ None

- Are Surveys for NSO being conducted for any portion of this operation?

☐ No    ☒ Density Surveys    ☐ Operational Surveys    ☐ Combination (Density/Operational)

Notes:

- Are Surveys for MM being conducted for any portion of this operation?

☒ Yes (in progress/completed)    ☐ No (Not habitat)    ☐ N/A (outside of MM survey zone)

Notes: Surveys are being conducted for Units 366 and 527 in 2022/2023. These surveys will expire on 04/01/2029.

- Are there any additional considerations (FPA Resource Sites, Species of Concern sites/Plant [from ORBIC<sup>1</sup>], big game habitat/management, other)?

☒ No    ☐ Yes, please describe:

#### IV. DESIRED FUTURE CONDITION AND PRESCRIPTION:

**Table 4. Stand Structure Information**

| Unit | Stand ID | Current | Desired Future | Inside of HCA | Net Acres <sup>a</sup> |
|------|----------|---------|----------------|---------------|------------------------|
| 366  | 31711    | UDS     | GEN            | Yes           | 7                      |
| 366  | 31713    | UDS     | GEN            | Yes           | 18                     |
| 527  | 31711    | UDS     | GEN            | No            | 41                     |
| 527  | 31713    | UDS     | GEN            | No            | 22                     |
| 527  | 37757    | UDS     | GEN            | No            | 29                     |
| 869  | 32183    | CSC     | GEN            | No            | 16                     |
| 869  | 32720    | UDS     | GEN            | No            | 13                     |
| 869  | 37691    | UDS     | GEN            | No            | 18                     |
| 869  | 37692    | UDS     | GEN            | No            | 33                     |
| 869  | 37693    | UDS     | GEN            | No            | 15                     |
| 869  | 37694    | UDS     | GEN            | No            | 12                     |
| 869  | 37695    | UDS     | GEN            | No            | 7                      |
| 870  | 32184    | CSC     | GEN            | No            | 2                      |
| 870  | 32688    | UDS     | GEN            | No            | 7                      |
| 870  | 37682    | UDS     | GEN            | No            | 24                     |
| 870  | 37686    | UDS     | GEN            | No            | 10                     |
| 870  | 37687    | UDS     | GEN            | No            | 15                     |
| 870  | 37751    | UDS     | GEN            | No            | 8                      |
| 870  | 37757    | UDS     | GEN            | No            | 2                      |
| 938  | 32688    | UDS     | GEN            | No            | 6                      |
| 938  | 37667    | UDS     | GEN            | No            | 20                     |
| 938  | 37757    | UDS     | GEN            | No            | 68                     |

a. Net Acres have been rounded to the nearest whole acre in this table. Stand that comprise less than one acre of a harvest unit are not reported in this table, so the total “Net Acres” per unit in this table may not equal the total “Net Acres” per unit in table 1.

**Table 5. Partial Cut & HCA Prescriptions (Complete only for Partial Cut and HCA Harvests)**

| Unit       | Harvest Type | Harvest Species | Residual |     |    |       |
|------------|--------------|-----------------|----------|-----|----|-------|
|            |              |                 | Species  | TPA | BA | % SDI |
| 366        | CC           | DF, RA          | DF       | --  | -- | --    |
| All others | CC           | --              | --       | --  | -- | --    |

- Unit 366 is located in a Habitat Conservation area and is predominately a Douglas-fir stand that is infected with Swiss Needle Cast. This stand will be regeneration harvested to remove the majority of the Swiss Needle Cast infested Douglas fir while retaining the largest trees available, those individual Douglas-fir that are growing well, and tree species that are resistant to Swiss needle cast. Red alder will be evaluated during layout and if any sprayed alder is identified it will likely be removed. This area will be replanted with a mix of SNC resistant species and will highlight planting at lower

densities to promote complex patches of early seral stage forest resulting in a stand that is positioned for future habitat treatments to grow into habitat for covered species in an accelerated timeframe. Treatments are intended to improve spatial heterogeneity, compositional diversity, understory development, canopy layering, and structural complexity of dominant and subdominant cohorts relative to untreated stands with similar conditions. Field staff and ODF Wildlife biologists will work closely during sale layout to determine legacy components (species, size, location, etc.) when finalizing prescriptions in these areas.

## V. HARVESTING AND ACCESS CONSIDERATIONS:

**Table 6. Harvest System and Access Summary**

| Unit | Harvest System |          | Slope (%) | Area Access | Seasonal Access |
|------|----------------|----------|-----------|-------------|-----------------|
|      | % Cable        | % Ground |           |             |                 |
| 366  | 100            | 0        | 57        | Simple      | All weather     |
| 527  | 100            | 0        | 39        | Simple      | Combo           |
| 869  | 100            | 0        | 40        | Simple      | All weather     |
| 870  | 100            | 0        | 50        | Simple      | All weather     |
| 938  | 100            | 0        | 33        | Verified    | Combo           |

- Haul Route: Bales Creek, South Fork Trask
  - There are no locked gates on the haul route.
- Haul Route Condition: Due to recent timber sales (Hollywood Hills, Thors Summit) the haul route is in excellent shape.
- Are easements required for the haul route? ☒ Yes ☐ No
  - 311.29429 Tillamook County, 311.29246 Stimson

**Table 7. Transportation Management Summary (Miles)**

| Activity                                                                    | Mainline | Collector | Rocked Spur | Dirt Spur |
|-----------------------------------------------------------------------------|----------|-----------|-------------|-----------|
| Construct                                                                   | 0        | 0         | 0.84        | 0.42      |
| Improve, Rock, and/or Maintain                                              | 6.25     | 5.07      | 1.64        | 0         |
| Vacate                                                                      | 0        | 0         | 0           | 0         |
| Stream Crossings to install existing (IE)/replace (R)/new construction (NC) |          |           |             |           |
| Type F - SSBT <sup>a</sup>                                                  | 0        | 0         | 0           | 0         |
| Type F – Non-SSBT                                                           | 0        | 0         | 0           | 0         |
| Type N                                                                      | 0        | 0         | 0           | 0         |

a. Salmon Steelhead and Bull Trout (SSBT)

- Rock Sources for this operation: South Fork Trask Pit, Bales Spur Pit, and crushed stockpile
- Are property line surveys required for this operation? ☐ Yes ☒ No
- Is there planned new road construction planned within RCAs/HCAs? ☒ Yes ☐ No
  - New road construction within RCA and HCAs will only occur when other alternatives are not operationally or economically feasible. Planned new road construction will be evaluated as it is further refined during sale layout.

## VI. AQUATIC RESOURCES:

1. Do any streams require additional review for the following?
  - Fish presence ☒ No    ☐ Yes
  - Perennial/Seasonal: ☐ No    ☒ Yes
  - H.E.R./P.D.F.T: ☐ No    ☒ Yes
  - There are streams within the sale that require additional review. Buffers shown on the map indicate where it is believed streams are located. These streams will be located, verified for fish presence, permanence, and/or type of seasonal stream during sale layout and Geotech review and buffered as required.
2. Is a portion of the operation within an Aquatic Anchor? ☐ No    ☒ Yes, name: E. Fk. of the S. Fk. Trask River
  - Within the designated Aquatic Anchor no harvest stream buffers will be extended out to 50 feet when regeneration harvesting near small perennial, debris flow-prone, and high-energy non-fish streams as outlined in the State Forest Division Species of Concern Policy. These additional buffers are already incorporated into the sale buffers and are shown on the map. If additional information on streams is found during sale layout the buffers will be adjusted as required.
3. Are any Points of Diversion (Domestic Water) located downstream within 3,000 feet of Operations? ☒ No    ☐ Yes, describe protection measures:
4. Is there a Stream Enhancement Project planned? ☐ No    ☒ Yes, please describe:
  - There is potential for a stream enhancement Project in the S. Fk. Trask (Units 869 & 870) and E. Fk. Trask River (Units 366 & 527). Additional desktop and field reviews shall be conducted to determine the best candidates to focus stream enhancement efforts on over this fiscal year. District State Forest staff shall consult with the ODF Aquatic and Riparian Specialists and the local ODFW Habitat Biologist to help determine the feasibility and logistics of the project during sale layout.

## VII. SLOPE STABILITY ISSUES:

Table 8. Summary of Slope Stability Assessment

| Unit | Harvest Review Complete? | Public Safety Review Complete? | Additional Comment |
|------|--------------------------|--------------------------------|--------------------|
| 366  | N                        | N                              |                    |
| 527  | N                        | N                              |                    |
| 869  | N                        | N                              |                    |
| 870  | N                        | N                              |                    |
| 938  | N                        | N                              |                    |

- **Geotech Review:** Some slope protections are dependent on further field review or on stream surveys that will be completed during sale layout. Consultation with the Geotechnical Specialist is required during sale layout and as streams surveys are completed in order to determine if additional protections are required.

## **VIII. RECREATION RESOURCES:**

1. Recreation issues/coordination: ☐ No ☒ Yes, please describe:
  - Segments of the Bushong Trail exist within sale areas #869, #870, #527, and #938. ¾ Mile Trail exists within sale area #938. The Marketing Unit and Roads Unit will work closely with the Recreation Program during sale layout, contract writing, and sale administration to minimize impact to the recreational trails and mitigate public use safety concerns.

The recreation trails will be temporarily closed when safety hazards are present during timber sale activity and re-opened once sale activity is completed or when safe to do so. Trail segments impacted by road construction will be evaluated for re-route construction post timber harvest. The Recreation Program may perform maintenance upgrades to improve sustainability and improve hydrological disconnection during closure to minimize impact to the public.

## **IX. HISTORIC AND CULTURAL RESOURCES:**

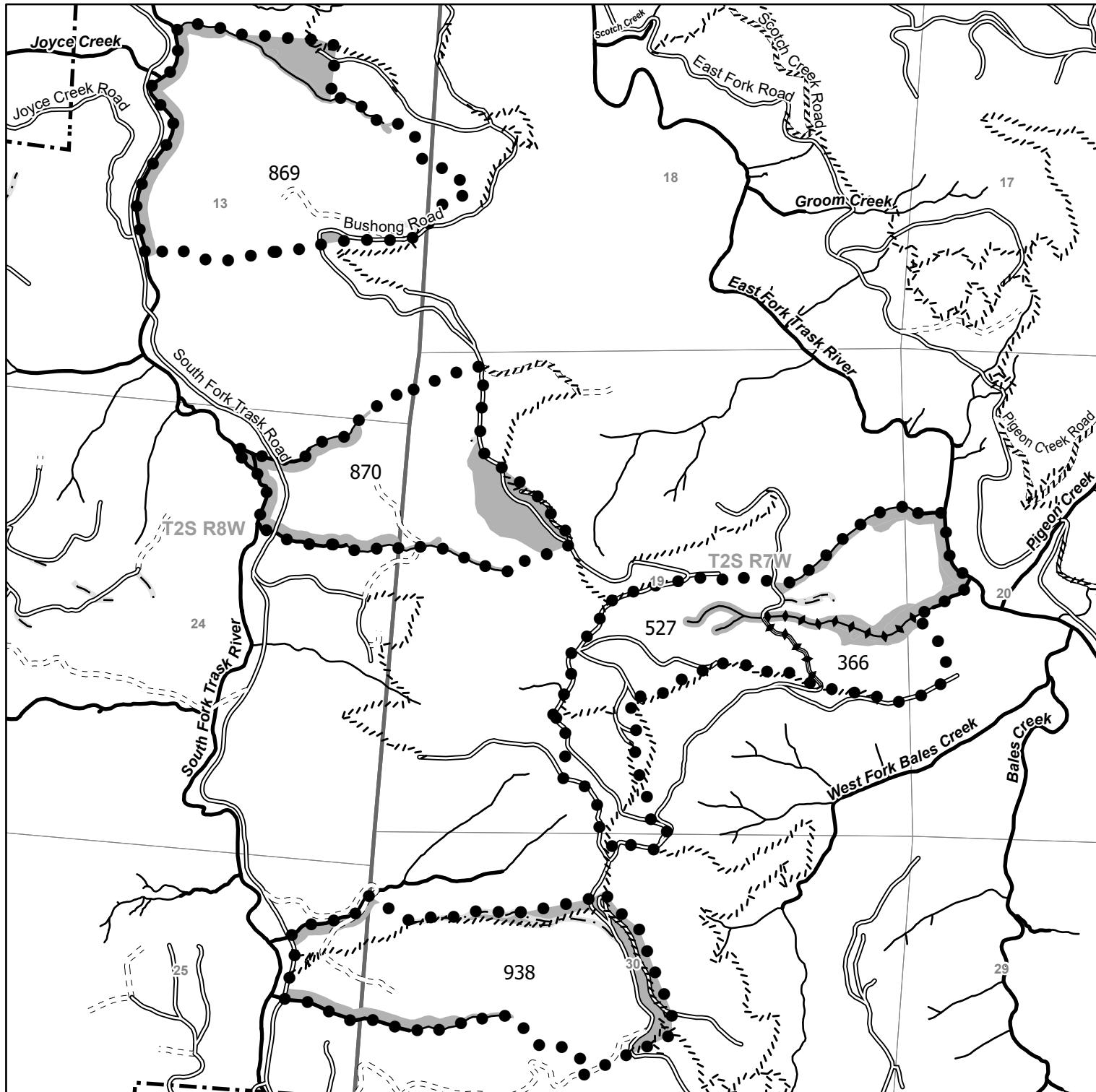
1. Has the sale been reviewed by a qualified archaeologist for potential historic or cultural resource presence?  
☒ Yes ☐ No

## **X. SCENIC RESOURCES:**

1. Are there scenic resources in the vicinity of this operation that need additional consideration? ☒ No ☐ Yes, please describe:

## **XI. OTHER RESOURCE CONSIDERATIONS:**

1. Has a review of the FLMCS layer determined that any resources not mentioned in the report above need additional planning? ☐ No ☒ Yes
  - The layer shows that a small number of acres in three of the units are within the “County Land Use Resolution” deed (Focused Stewardship). The harvest prescriptions have been developed in alignment with this designation by focusing on removing the SNC and alder. District staff will further refine this prescription during sale layout.
2. Are there any other resources present that need additional consideration? ☒ No ☐ Yes, please describe:



# FY 2025 - Tillamook District

## Bushong Road

Portions of Section(s) 18, 19, 20, 30, T2S, R7W;  
Sections 13, 24, 25, T2S, R8W W.M.  
Tillamook County

State Forest Division  
03/11/2024

This product is for informational use and may not have been prepared for or be suitable for legal, engineering or survey purposes. Variations may exist between and among data sets in use by the Department of Forestry. This map was developed using the Statewide Stream layer layer.  
1:18,000

|          |     |            |
|----------|-----|------------|
| Unit 366 | 26  | Acres (CC) |
| Unit 527 | 93  | Acres (CC) |
| Unit 869 | 117 | Acres (CC) |
| Unit 870 | 70  | Acres (CC) |
| Unit 938 | 93  | Acres (CC) |

Total 399 Acres



## Legend

- ◆◆ Unit Boundary
- Sale Boundary
- //// Recreation Trails
- Surfaced
- - - - Unsurfaced
- - - - New Road Construction
- Perennial Fish Stream
- Perennial Nonfish Stream
- No Harvest Area
- No Harvest - Existing Road; New Construction
- - - - Ownership Boundary

1,000 500 0 1,000 Feet

