



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal  
South Block Contingency  
Sale NC-341-2021-W00907-01

District: N Cascade

Date: December 18, 2020

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**Cost Summary**

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$155,818.90	\$644.70	\$156,463.60
		Project Work:	\$0.00
		Advertised Value:	\$156,463.60



# Timber Sale Appraisal South Block Contingency Sale NC-341-2021-W00907-01

**District: N Cascade**

**Date: December 18, 2020**

## Timber Description

**Location:**

**Stand Stocking: 20%**

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	20	0	97
Western Hemlock / Fir	14	0	96
Alder (Red)	13	0	95

Volume by Grade	Camprun	Total
Douglas - Fir	354	354
Western Hemlock / Fir	34	34
Alder (Red)	35	35
<b>Total</b>	423	423

**Comments:** Pond Values Used: Local Pond Values, November, 2020.

Expected Log Markets: Mollala, Mill City, Lyons, Estacada, Sweethome, Willamina, Banks, North Plains, Clatskanie, Forest Grove, Eugene, Monroe, Noti, Longview, WA, Elma, WA, and Vancouver, WA.

Other Costs (with Profit & Risk to be added):

Machine Washing for Invasive Weed Compliance = \$2,000

Ditch Filters:

bales of straw 20@\$12.06/bale = \$241.20

8 hours of labor @ \$45/hr = \$360

TOTAL Other Costs (with Profit & Risk to be added): \$2,601.20

Other Costs (No Profit & Risk added):

None.

SLASH PILING

(See attached appraisal. Includes move-in, pile materials, and end-hauling) = \$9,090.00

ROAD MAINTENANCE

(See attached Road Maintenance Cost Summary Sheet)

TOTAL Road Maintenance: \$12,810/423 MBF = \$30.28/MBF



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**Logging Conditions**

<b>Combination#:</b> 1	Douglas - Fir	100.00%
	Western Hemlock / Fir	100.00%
	Alder (Red)	100.00%
<b>Logging System:</b>	Shovel	<b>Process:</b> Manual Delimbing
<b>yarding distance:</b>	Short (400 ft)	<b>downhill yarding:</b> No
<b>tree size:</b>	Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF	
<b>loads / day:</b>	6	<b>bd. ft / load:</b> 4600
<b>cost / mbf:</b>	\$120.56	
<b>machines:</b>	Shovel Logger	

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### Logging Costs

Operating Seasons: 1.00	Profit Risk: 10%
Project Costs: \$0.00	Other Costs (P/R): \$2,601.20
Slash Disposal: \$9,090.00	Other Costs: \$0.00

#### Miles of Road

Road Maintenance: \$30.28

Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	0.0	0.0	0.0

#### Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	1.0	5.2
Western Hemlock / Fir	\$0.00	1.0	4.7
Alder (Red)	\$0.00	1.0	4.0



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## Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
<b>Douglas - Fir</b>									
\$120.56	\$31.19	\$10.38	\$188.17	\$6.15	\$35.64	\$21.49	\$2.00	\$0.00	\$415.58
<b>Western Hemlock / Fir</b>									
\$120.56	\$31.49	\$10.38	\$210.22	\$6.15	\$37.88	\$21.49	\$2.00	\$0.00	\$440.17
<b>Alder (Red)</b>									
\$120.56	\$31.79	\$10.38	\$249.38	\$6.15	\$41.83	\$21.49	\$2.00	\$0.00	\$483.58

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$850.00	\$434.42	\$0.00
Western Hemlock / Fir	\$0.00	\$500.00	\$59.83	\$0.00
Alder (Red)	\$0.00	\$502.00	\$18.42	\$0.00



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### Summary

#### Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Western Hemlock / Fir	0	\$0.00	\$0.00
Alder (Red)	0	\$0.00	\$0.00

#### Unamortized

Specie	MBF	Value	Total
Douglas - Fir	354	\$434.42	\$153,784.68
Western Hemlock / Fir	34	\$59.83	\$2,034.22
Alder (Red)	35	\$18.42	\$644.70

#### Gross Timber Sale Value

Recovery: \$156,463.60

Prepared By: John Tillotson

Phone: 503-325-5451

Vegetation Type/Zone	Vegetation Type/Zone Code	Production Rate (hr/ac)	Estimated Piles/Acre	Landing Production Rate (hrs/30 acres)
Doug-fir	A	0.5	0.5	6
Hemlock/Fir	B	1.3	4.5	8
Hemlock/Spruce	C	1.8	6.0	10
Hemlock	D	1.8	6.0	8
Conifer/Hardwood	E	1.0	2.0	8
Whole Tree Yarding	F	0.5	0.5	12

**Date:** 12/10/2020

Sale Area		Harvest Type	Veg Type/Zone	Ground Based Yarding Acres	Estimated Piling Hours/Area	Cost/Hour	Total Cost/Area
1		R/W Salvage	B	41	53	\$145.00	\$7,728.50
					FALSE	\$145.00	\$0.00
					FALSE	\$145.00	\$0.00
					FALSE	\$145.00	\$0.00
						In-unit Piling	Sub Total = \$7,728.50
Sale Area		Number of Landings to be Piled	# cable acres per area	Total Cost/Area	Number of In-Unit Piles	Material Cost/Pile	Total Cost/Area
1		10	0	\$0.00	194.5	\$7.00	\$1,361.50
				FALSE	0	\$5.00	\$0.00
				FALSE	0	\$5.00	\$0.00
				FALSE	0	\$5.00	\$0.00
						Materials	Sub Total = \$1,361.50
						Landing Piling	Sub Total = \$0.00
Move-In Allowance		Number of Move-In's	Total Move-In Allowance				
\$1,290.00		0	\$0.00				
						Move-In	Sub Total = \$0.00
Slash Endhaul							
Dump Truck hrs		Cost/Hour	Total	Loader hrs	Cost/Hour	Total	
		\$89.00	\$0.00		\$145.00	\$0.00	
							Sub Total = \$0.00
							Grand Total = \$9,090.00

### Road Maintenance Cost Summary (Interim and Post Harvest)

<b>Sale:</b>	<b>South Block Contigency</b>		<b>MBF:</b> 423.00
<b>Date:</b>	December 10, 2020		<b>\$/MBF:</b> \$30.28
<b>By:</b>	John Tillotson		

Type	Equipment/Rationale	Move-in Rate	Times	Hours	Rate	Cost
Interim	Grader 14G	\$875	1	8	\$113	\$1,779
	Grader 14G	\$875	1	40	\$113	\$5,395
Final Road Maintenance	Vibratory Roller	\$875	1	16	\$87	\$2,267
	12CY Dumptruck	\$184	1	8	\$89	\$896
	Rubber tired Backhoe	\$361	1	16	\$87	\$1,753
	Labor			16	\$45	\$720
<b>Total</b>						<b>\$12,810</b>

#### Interim Operations Road Maintenance

Production Rates	Miles/day	Distance (miles)	Days	Hours
Grader	3.0	3.0	1.0	8

#### Final Road Maintenance

Production Rates	Miles/day	Distance (miles)	Days	Hours
Grader	2.0	11.0	5.5	44
Vibratory Roller	2.0	4.0	2.0	16

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Grade all Crushed Rock Roads Used for log haul

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Rock Creek Road, S. Rock Creek ML, SRC 100, SRC 150, SRC 160, SRC 200, SRC 400, SRC 500, SRC 600, SRC 800, SRC 900, SRC 910, SRC 920, SRC 930, Tom Rock 1200, and sNorth Rock Creek Mainline, Rock Creek 200, Translator Hill Road, Tom Rock Road, TR 500, TR 1200, TR 1300 Roads

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# TIMBER CRUISE REPORT

## South Block Contingency FY 2021

**1. Sale Area Location:**

The sale area is located in portions of Sections 3, 4, 5, 8, 9, 10, 16, 17, 21, and 22, T10S, R3E, W.M., Linn County, Oregon

**2. Fund Distribution:**

BOF = 100%

Tax Code = Linn County (100%)

**3. Sale Acreage and Treatments by Area:**

Unit	Harvest Type	Gross Acres	Anticipated Salvage Acres	Survey Method
1	Decked	60	45	GIS
<b>TOTAL</b>	Contingency line Whole trees	<b>60</b>	<b>45</b>	

**4. Cruise Method and Computations:**

All volume results were derived from SLI inventory and tree counts collected in November and December of 2020.

**5. Timber Description:**

Unit 1 – Trees are decked adjacent to the following road segments:

Rock Creek Road, Rock Creek 200 Road, North Rock Creek Mainline, South Rock Creek Mainline, SRC 100, SRC 150, SRC 150, SRC 160, SRC 200, SRC 400, SRC 500, SRC 600, SRC 800, SRC 900, SRC 910, SRC920, and SRC 930 roads, Tom Rock Road, TR 500, TR 1200, and TR 1300 Roads, and Translator Hill Road.

These trees are from the adjacent stands that range in age from 22 to approximately 117 years old, consisting of Douglas-fir, western hemlock and minor amounts of red alder. All trees are decked tree length.

**7. Statistical Analysis and Stand Summary:** A statistical analysis was not calculated.

**8. Volumes by Species and Sale Areas:** Volumes do not include “in-growth”. The total net MBF volumes by species and grade are as follows:

Species	Butt dia.	Net. CR Vol.	Tree Count	Sale%
Douglas-fir	20"	354	965	84
Western hemlock	14"	34	326	8
Red alder	13"	35	250	8
<b>Totals</b>		<b>423</b>	<b>1,541</b>	

Defect and breakage was estimated at 10 percent.

**9. Approvals:**

Prepared by: John Tillotson

Date: December 17, 2020