Timber Sale Appraisal
NC 6

Sale WL-341-2022-W00844-01

District: Western Lane **Date: December 27, 2021**

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	$2,224,798.92	$130,141.20	$2,354,940.12
		Project Work:	($295,028.74)
		Advertised Value:	$2,059,911.38

Timber Sale Appraisal
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District: Western Lane **Date: December 27, 2021**

Timber Description

Location:

Stand Stocking: 60%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	22	0	97
Western Hemlock / Fir	19	0	97
Alder (Red)	15	0	97
Maple	14	0	97

Volume by Grade	2S	3S & 4S 6"-11"	Camprun	Total
Douglas - Fir	3,288	1,397	0	4,685
Western Hemlock / Fir	46	48	0	94
Alder (Red)	0	0	637	637
Maple	0	0	227	227
Total	3,334	1,445	864	5,643

Comments: Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Costs:$787.87/MBF = $1,136/MBF - $348.13/MBF

Bigleaf maple = $0/MBF

Pulp Price (Conifer and Hardwood) Price = $2.50/Ton

Conifer Utility SC & PC = $30

Hauling Cost Allowance = $950 daily truck cost

Other Costs (With Profit & Risk to be added): None.

Equipment wash prior to move in = $500

Logger Option Spur Costs = $12,955

Firewood sorting and landing slash piling = $2,000

Final Road Maintenance = $12,059

TOTAL Other Costs (No Profit and Risk added) = $27,514.00

Logging Conditions

Combination#: 1

Douglas - Fir	60.00%
Western Hemlock / Fir	60.00%
Alder (Red)	60.00%
Maple	60.00%

Logging System: Cable: Medium Tower >40 - <70 **Process:** Manual Falling/Delimbing

yarding distance: Medium (800 ft) **downhill yarding:** No

tree size: Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF

loads / day: 6 **bd. ft / load:** 4100

cost / mbf: $268.29

machines: Log Loader (A)
Tower Yarder (Medium)

Combination#: 2

Douglas - Fir	40.00%
Western Hemlock / Fir	40.00%
Alder (Red)	40.00%
Maple	40.00%

Logging System: Shovel **Process:** Manual Falling/Delimbing

yarding distance: Long (1,500 ft) **downhill yarding:** No

tree size: Mature / Partial Cut (900 Bft/tree), 3-5 logs/MBF

loads / day: 7 **bd. ft / load:** 4100

cost / mbf: $137.19

machines: Shovel Logger

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District: Western Lane **Date: December 27, 2021**

Logging Costs

Operating Seasons:	1.00	**Profit Risk:**	14%
Project Costs:	$295,028.74	**Other Costs (P/R):**	$0.00
Slash Disposal:	$0.00	**Other Costs:**	$27,514.00

Miles of Road **Road Maintenance:** $0.00

Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	3.0	0.0	0.0

Hauling Costs

Species	$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	$0.00	3.0	4.1
Western Hemlock / Fir	$0.00	3.0	4.1
Alder (Red)	$0.00	2.0	3.8
Maple	$0.00	2.0	3.8

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Sale WL-341-2022-W00844-01

"STEWARDSHIP IN FORESTRY"

District: Western Lane **Date: December 27, 2021**

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
$215.85	$3.15	$0.78	$79.56	$0.00	$41.91	$0.00	$2.00	$4.88	$348.13
Western Hemlock / Fir									
$215.85	$3.15	$0.78	$79.56	$0.00	$41.91	$0.00	$2.00	$4.88	$348.13
Alder (Red)									
$215.85	$3.15	$0.78	$128.75	$0.00	$48.79	$0.00	$2.00	$4.88	$404.20
Maple									
$215.85	$3.15	$0.78	$128.75	$0.00	$48.79	$0.00	$2.00	$4.88	$404.20

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	$0.00	$820.05	$471.92	$0.00
Western Hemlock / Fir	$0.00	$495.51	$147.38	$0.00
Alder (Red)	$0.00	$610.00	$205.80	$0.00
Maple	$0.00	$400.00	($4.20)	$0.00

Timber Sale Appraisal
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Sale WL-341-2022-W00844-01

District: Western Lane

Date: December 27, 2021

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
Maple	0	$0.00	$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	4,685	$471.92	$2,210,945.20
Western Hemlock / Fir	94	$147.38	$13,853.72
Alder (Red)	637	$205.80	$131,094.60
Maple	227	($4.20)	($953.40)

Gross Timber Sale Value

Recovery: $2,354,940.12

Prepared By: Morgan Kawakami **Phone:** 541-935-2283

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Combined Project Costs

Project 1	Road Brushing	$	8,243.00
Project 2	Construct and compact sub-grades, Road Improvements	$	36,190.00
Project 3	Road Vacating	$	25,064.74
Project 4	Spread and compact rock for Roads	$	221,031.00
Project 5	Move In	$	4,500.00
	TOTAL PROJECT COSTS	$	295,028.74

Summary of "Other Costs" for Timber Sale Appraisals

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"Other Costs" with Profit and Risk to be Added:

None

Total "Other Costs" with Profit and Risk to be Added: **$0**

"Other Costs" With No Additional Profit and Risk

	Units	Quantity	Cost/Unit	Total Cost
Equipment wash prior to move-in	Operation			$ 500.00
Logger Option Road Cost	Operation			$ 12,955.00
Firewood sorting and landing slash piling	Operation			$ 2,000.00
Final Road Maintenance	Operation			$ 12,059.00
Total "Other Costs" With No Additional Profit and Risk:				**$ 27,514.00**
Cost per MBF 5,643 MBF				**$ 4.88**

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Road Brushing Costs

Location	Nelson CR RD	Spur 1	Spur 1a	Spur 2	Spur 2a	Spur 2b	Spur 2c	Spur 2d	Spur 2e	
Point to Point/Satationing	A to B	C to D	0+00 to 7+48	B to E	0+00 to 2+49	0+00 to 8+80	0+00 to 3+55	0+00 to 14+60	0+00 to 13+14	
Miles	3.220	1.106	0.142	0.965	0.047	0.167	0.067	0.277	0.249	**Total**
Brushing Intensity	Light	Light	Light to Medium	Light	Light	Light	Light	Light	Light to Medium	
Cost/mile	$ 1,307	$ 1,307	$ 1,534	$ 1,307	$ 1,307	$ 1,307	$ 1,307	$ 1,307	$ 1,534	
Total Cost	**$ 4,208**	**$ 1,446**	**$ 217**	**$ 1,261**	**$ 62**	**$ 218**	**$ 88**	**$ 361**	**$ 382**	**$ 8,243**

Location	Logger Option 1	Logger Option 2	Logger Option 3	
Point to Point/Satationing	0+00 to 11+05	0+00 to 2+82	0+00 to 7+58	
Miles	0.209	0.053	0.144	**Total**
Brushing Intensity	Light to Medium	Light to Medium	Light to Medium	
Cost/mile	$ 1,534	$ 1,534	$ 1,534	
Total Cost	$ 321	$ 82	$ 220	**$ 623**

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Subgrade Construction/Culverts

Processing and Decking Right-of-Way Logs Not Included

Totals	Nelson CR RD	Spur 1	Spur 1a	Spur 2	Spur 2a	Spur 2b	Spur 2c	Spur 2d	Spur 2e	TOTAL
Stations	170	58.4	7.48	50.96	2.49	8.8	3.55	14.6	13.14	329
Cost/Sta	$ 46.00	$ 68.00	$ 743.00	$ 54.00	$ 858.00	$ 140.00	$ 167.00	$ 133.00	$ 778.00	
Cost	**$ 7,775.00**	**$ 3,959.00**	**$ 5,557.00**	**$ 2,774.00**	**$ 2,136.00**	**$ 1,232.00**	**$ 594.00**	**$ 1,945.00**	**$ 10,218.00**	**$ 36,190.00**

Earthwork

Clearing and Grubbing	Nelson CR RD	Spur 1	Spur 1a	Spur 2	Spur 2a	Spur 2b	Spur 2c	Spur 2d	Spur 2e	TOTAL
Acreage		0.131	0.463		0.148				0.839	1.58
Cost/Acre	$1,519.53	$1,519.53	$1,519.53	$1,519.53	$1,519.53	$1,519.53	$1,519.53	$1,519.53	$1,519.53	
Total	**$ -**	**$ 200**	**$ 704**	**$ -**	**$ 225**	**$ -**	**$ -**	**$ -**	**$ 1,275**	**$ 2,404.00**

Excavation yards are bank run from State's design

Construction/Excavation	Nelson CR RD	Spur 1	Spur 1a	Spur 2	Spur 2a	Spur 2b	Spur 2c	Spur 2d	Spur 2e	TOTAL
Stations		1.5	7.48		2.49	3			13.14	
Drift/Excavation Cu Yd w Fluff		175	1030		343				1934	
$/sta	$ 138.66	$ 138.66	$ 138.66	$ 138.66	$ 138.66	$ 138.66	$ 138.66	$ 138.66	$ 138.66	
Drift/Excavation $/yd	$ 2.50	$ 2.50	$ 2.50	$ 2.50	$ 2.50	$ 2.50	$ 2.50	$ 2.50	$ 2.50	
Landing Construction		$ 442.11	$ 442.11	$ 442.11	$ 442.11	$ 442.11	$ 442.11	$ 1,326.32	$ 884.21	
Subtotal	**$ -**	**$ 1,088.00**	**$ 4,055.00**	**$ 443.00**	**$ 1,645.00**	**$ 859.00**	**$ 443.00**	**$ 1,327.00**	**$ 7,542.00**	**$ 17,402.00**

Subgrade Treatment

Compaction w/ Roller Surface Rock	Nelson CR RD	Spur 1	Spur 1a	Spur 2	Spur 2a	Spur 2b	Spur 2c	Spur 2d	Spur 2e	TOTAL
Road Stations			7.48		2.49				13.14	
Cost/STA	$ 64.19	$ 64.19	$ 64.19	$ 64.19	$ 64.19	$ 64.19	$ 64.19	$ 64.19	$ 64.19	
Subtotal	**$ -**	**$ -**	**$ 481**	**$ -**	**$ 160**	**$ -**	**$ -**	**$ -**	**$ 844**	**$ 1,485.00**

Grade and Shape (Including ditch and culvert cleaning)	Nelson CR RD	Spur 1	Spur 1a	Spur 2	Spur 2a	Spur 2b	Spur 2c	Spur 2d	Spur 2e	TOTAL
Road Stations	170	58.4	7.48	50.96	2.49	8.8	3.55	14.6	13.14	329
Cost/STA	$ 45.73	$ 45.73	$ 42.32	$ 45.73	$ 42.32	$ 42.32	$ 42.32	$ 42.32	$ 42.32	
Subtotal	**$ 7,775**	**$ 2,671**	**$ 317**	**$ 2,331**	**$ 106**	**$ 373**	**$ 151**	**$ 618**	**$557.00**	**$ 14,899.00**

Move in Cost	Initial	Between Projects
D-7 Cat	$ 1,500	
Dump Truck	$ 200	
grader	$ 500	
small excavator	$ 500	
vibratory roller	$ 200	
water truck	$ 100	
large excavator	$ 1,500	

Project Cost	**$ 36,190.00**
Move In Cost	**$ 4,500**
Total Cost	**$ 40,690.00**

Due to rounding, the numbers in the table above may not add up to the totals shown.

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Crossing and Road Vacating Costs

Brushing costs:

Brushing	**13+14 to H**	**Totals**
# Stations	10.4	
Miles	0.197	
Brushing Intensity	Light	
Cost/mile	$ 1,307	
Subtotal	**$ 257**	**$ 257**

Subgrade/Excavation Costs:

Clearing and Grubbing	**13+14 to H**	**Totals**
Acreage	0.38	
Cost/Acre	$1,519.53	
Subtotal	**$ 581**	**$ 581.00**

Access Construction/Excavation	**13+14 to H**	**Totals**
Stations	10.4	
Drift/Excavation Cu Yd w Fluff	881	
$/sta	$ 138.66	
Drift/Excavation $/yd	$ 2.50	
Subtotal	**$ 3,646.00**	**$ 3,646.00**

Compaction w/ Roller Surface Rock	**13+14 to H**	**Totals**
Road Stations	10.4	
Cost/STA	$ 64.19	
Subtotal	**$ 668**	**$ 668.00**

Grade and Shape	13+14 to H	**Totals**
Road Stations	10.4	
Cost/STA	$ 42.32	
Subtotal	**$ 440**	**$ 440.17**

Crossing Waste and Endhaul Excavation Costs:

Ramp down/Crossing Excavation	H	**Totals**
Cubic Yards	1000	
$/yd^3	$ 5.00	
Subtotal	**$ 5,000.00**	**$ 5,000.00**

Endhaul	H	**Totals**
Total Loose Truck Haul Cu. Yds.	1430	
Total End Haul Costs	**$ 5,398.54**	**$ 5,398.54**
Cost/ Cu. Yds.	$ 3.78	

Waste Material Compaction	H	**Totals**
Total Loose Truck Haul Cu. Yds.	2430	
Cost/ Cu. Yds.	$ 0.45	
Subtotal	**$ 1,104.70**	**$ 1,104.70**

Vacating Costs	F	G	H	**Totals**
Cubic Yards	1.5	1.5	10.4	
$/sta	$ 411.42	$ 411.42	$ 411.42	
Subtotal	**$ 617.13**	**$ 617.13**	**$ 4,278.77**	**$ 5,513.03**

Miscellaneous Project Costs:

Seed/Mulch	F	G	H	**Totals**
Rate /acre	$ 2,124.16	$ 2,124.16	$ 2,124.16	
Acres	0.1	0.1	0.25	
Subtotal	**$ 212.42**	**$ 212.42**	**$ 531.04**	**$ 955.87**

Move in Costs	
Excavator	**$ 750.00**
Backhoe/Dozer	**$ 500.00**
Dump Truck	**$ 250.00**

TOTAL $ 25,064.74

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End Haul For Road

Summary	
Total Loose Truck Haul Cu. Yds.	1716
Total End Haul Costs	$6,100.72
Avg Cost/ Cu. Yds.	$ 3.56

Spur Name	In Place (yds^3)	Fill Type	Truck	In Fill	Clean Fill	WA	Distance	Cost/yd	Haul Cost
F	100	E2	143	100	NA*	WA1	0.05	2.46	$351.09
G	100	E2	143	100	NA*	WA1	0.05	2.46	$351.09
H	1000	E2	1430	1000	NA*	WA3	0.3	3.78	$5,398.54

WA1= on site adjacent to project
WA3= designated and marked in the field as WA

Loose Truck Haul Total Cu. Yds.	**1716**
In-Fill Total Cu. Yds.	**1200**

Total End Haul Cost	**$6,100.72**
Avg Cosy/yd	**$3.56**

Waste Area Endhaul

Hourly Costs		WA1	WA2	WA3
Hourly Rate for a truck		$90	$90	$90
Number of trucks		1	1	1
Excavator + Operator		$ 174.00	$ 174.00	$ 174.00
Total		$ 264.00	$ 264.00	$ 264.00
Haul Speed	mph	10	10	10
Distance	miles	0.05	0.2	0.3
Time	hrs	0.01	0.04	0.06
Dump and Load	hrs	0.083	0.083	0.083
total time		0.093	0.123	0.143
Loads per hr		11	8.1	7.0
Yds per hr		107.53	81.30	69.93
Cost per Cu. Yd		$ 2.46	$ 3.25	$ 3.78

Expansion Factors	Truck	In Fill
75 % Rock 25 % Earth (E1)	1.31	1.12
75% Earth 25% Rock (E2)	1.43	0.91
Clean Fill 80% of Earth Rock Mixture		0.8

Note: Costing is based off an average haul speed of 10mph, **10 Cu. Yds. end dump trucks**, 1 excavator, Dump and Load time 5min/trip.

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Rocking and Compaction

Rock Source: **Commercial**

Rock Quantity (Inplace)

Base Rock	Nelson CR RD 2"	Nelson CR RD 4"	Spur 1	Spur 1a	Spur 2	Spur 2a	Spur 2b	Spur 2c	Spur 2d	Spur 2e	**TOTAL**
Rock Size	3"-0"	3"-0"	3"-0"	3"-0"	3"-0"	3"-0"	3"-0"	3"-0"	3"-0"	3"-0"	
Stations	98.00	72.00	58.40	7.48	50.96	2.49	8.80	3.55	14.60	13.14	329.00
Approx yds/sta				33							
Subtotal base (cu. yds)	**0**	**0**	**0**	**250**	**0**	**0**	**0**	**0**	**0**	**0**	**250**
Cap Rock	Nelson CR RD 2"	Nelson CR RD 4"	Spur 1	Spur 1a	Spur 2	Spur 2a	Spur 2b	Spur 2c	Spur 2d	Spur 2e	**TOTAL**
Rock Size	1 1/2"-0"	1 1/2" open	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	
Stations	98.00	72.00	58.40	7.48	50.96	2.49	8.80	3.55	14.60	13.14	329.00
Approx yds/sta	11	22	11	11	11	11	11	11	11		
Subtotal cap (cu. yds)	**1080**	**1580**	**640**	**80**	**560**	**30**	**100**	**40**	**160**	**0**	**4270**
Landings	Nelson CR RD 2"	Nelson CR RD 4"	Spur 1	Spur 1a	Spur 2	Spur 2a	Spur 2b	Spur 2c	Spur 2d	Spur 2e	**TOTAL**
Rock Size	Pit Run	Pit Run	Pit Run	Pit Run	Pit Run	Pit Run	Pit Run	Pit Run	Pit Run	Pit Run	
Stations			2.00	2.00		1.00	1.00	1.00	2.00		9.00
Approx yds/sta	40	40	40	40	40	40	40	40	40	40	
Subtotal base (cu. yds)	**0**	**0**	**80**	**80**	**0**	**40**	**40**	**40**	**80**	**0**	**360**
Additional Rock	Nelson CR RD 2"	Nelson CR RD 4"	Spur 1	Spur 1a	Spur 2	Spur 2a	Spur 2b	Spur 2c	Spur 2d	Spur 2e	**TOTAL**
Rock Size	Pit Run	Pit Run	Pit Run	Pit Run	Pit Run	Pit Run	Pit Run	Pit Run	Pit Run	Pit Run	
Turnouts and Turn-Arounds	4		2	1			1				8.00
Approx cu. yds	20	20	20	20	20	20	20	20	20	20	
Subtotal Tunouts/Around (cu. yds)	**80**	**0**	**40**	**20**	**0**	**0**	**20**	**0**	**0**	**0**	**160**
Rock Size	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	
Number of Points			6		10				4		
Curve Widening/Spot Rocking (Yds)	10	10	10	10	10	10	10	10	10	10	
Subtotal Spot/Widening Rock	**0**	**0**	**60**	**0**	**100**	**0**	**0**	**0**	**40**	**0**	**200.00**

ROCK COST (Rock + Delivery)

Road Segment/Name	Nelson CR RD 2"	Nelson CR RD 4"	Spur 1	Spur 1a	Spur 2	Spur 2a	Spur 2b	Spur 2c	Spur 2d	Spur 2e	**TOTAL**
Rock Size	3"-0"	3"-0"	3"-0"	3"-0"	3"-0"	3"-0"	3"-0"	3"-0"	3"-0"	3"-0"	
Approx cu. yds	0	0	0	250	0	0	0	0	0	0	250.00
Cost/yd (includes load/spread)	$ 38.60	$ 38.60	$ 38.60	$ 38.60	$ 38.60	$ 38.60	$ 38.60	$ 38.60	$ 38.60	$ 38.60	
Subtotal Cost "Base" Rock	**$ -**	**$ -**	**$ -**	**$ 9,651**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 9,651**
Rock Size	1 1/2"-0"	1 1/2" open	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	
Approx cu. yds	1080	1580	640	80	560	30	100	40	160	0	4270.00
Cost/yd (includes load/spread)	$ 39.30	$ 40.35	$ 39.30	$ 39.30	$ 39.30	$ 39.30	$ 39.30	$ 39.30	$ 39.30	$ 39.30	
Subtotal Cost "Cap" Rock	**$ 42,447**	**$ 63,757**	**$ 25,154**	**$ 3,144**	**$ 22,009**	**$ 1,179**	**$ 3,930**	**$ 1,572**	**$ 6,288**	**$ -**	**$ 169,480**
Rock Size	Pit Run	Pit Run	Pit Run	Pit Run	Pit Run	Pit Run	Pit Run	Pit Run	Pit Run	Pit Run	
Approx cu. yds **Tunouts/Arounds**	80	0	40	20	0	0	20	0	0	0	160.00
Cost/yd (includes load/spread)	$ 34.40	$ 34.40	$ 34.40	$ 34.40	$ 34.40	$ 34.40	$ 34.40	$ 34.40	$ 34.40	$ 34.40	
Subtotal	$2,752.20	$0.00	$1,376.10	$688.05	$0.00	$0.00	$688.05	$0.00	$0.00	$0.00	
Rock Size	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	
Approx cu. Yds **Spot/Widening**	0	0	60	0	100	0	0	0	40	0	200.00
Cost/yd (includes load/spread)	$ 39.30	$ 39.30	$ 39.30	$ 39.30	$ 39.30	$ 39.30	$ 39.30	$ 39.30	$ 39.30	$ 39.30	
Subtotal	$0.00	$0.00	$2,358.15	$0.00	$3,930.25	$0.00	$0.00	$0.00	$1,572.10	$0.00	
Rock Size	Pit Run	Pit Run	Pit Run	Pit Run	Pit Run	Pit Run	Pit Run	Pit Run	Pit Run	Pit Run	
Approx cu. Yds **Energy Disipator/Drain Rock**											0.00
Cost/yd (includes load/spread)	$ 34.40	$ 34.40	$ 34.40	$ 34.40	$ 34.40	$ 34.40	$ 34.40	$ 34.40	$ 34.40	$ 34.40	
Subtotal	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
Subtotal Cost "Additional" Rock	**$ 2,752**	**$ -**	**$ 3,734**	**$ 688**	**$ 3,930**	**$ -**	**$ 688**	**$ -**	**$ 1,572**	**$ -**	**$ 13,364**
Approx cu. yds **Landing**											
Rock Size	Pit Run	Pit Run	Pit Run	Pit Run	Pit Run	Pit Run	Pit Run	Pit Run	Pit Run	Pit Run	
Approx cu. yds	0	0	80	80	0	40	40	40	80	0	360
Cost/yd (includes load/spread)	$ 34.40	$ 34.40	$ 34.40	$ 34.40	$ 34.40	$ 34.40	$ 34.40	$ 34.40	$ 34.40	$ 34.40	
Subtotal Cost "Landing" Rock	**$ -**	**$ -**	**$ 2,752**	**$ 2,752**	**$ -**	**$ 1,376**	**$ 1,376**	**$ 1,376**	**$ 2,752**	**$ -**	**$ 12,384**
Grand total quarry approx yds	1160	1580	820	430	660	70	160	80	280	0	5240.00
Total Quarry Rock Cost	**$ 45,199**	**$ 63,757**	**$ 31,640**	**$ 16,235**	**$ 25,940**	**$ 2,555**	**$ 5,994**	**$ 2,948**	**$ 10,613**	**$ -**	**$ 204,881**
Compaction w/Processing (Stations)	Nelson CR RD 2"	Nelson CR RD 4"	Spur 1	Spur 1a	Spur 2	Spur 2a	Spur 2b	Spur 2c	Spur 2d	Spur 2e	**TOTAL**
Cost/cu. Yds	$3.00	$3.00	$3.00	$4.00	$3.00	$3.00	$3.00	$3.00	$3.00	$3.00	
Subtotal Processing	**$ 3,480**	**$ 4,740**	**$ 2,460**	**$ 1,720**	**$ 1,980**	**$ 210**	**$ 480**	**$ 240**	**$ 840**	**$ -**	**$ 16,150**
$/yd^3 rock in place & compacted	Nelson CR RD 2"	Nelson CR RD 4"	Spur 1	Spur 1a	Spur 2	Spur 2a	Spur 2b	Spur 2c	Spur 2d	Spur 2e	**Total**
Total Rock Costs	**$48,679**	**$68,497**	**$34,100**	**$17,955**	**$27,920**	**$2,765**	**$6,474**	**$3,188**	**$11,453**	**$0**	**$ 221,031**

Move-in included in subgrade construction

Due to rounding, the numbers in the table above may not add up to the totals shown.

Kawakami 12/20/2021

State Timber Sale Contract
341-2022-W00844 -01
NC6

Final Road Maintenance Cost Summary

Totals	Nelson CR RD	Spur 1	Spur 1a	Spur 2	Spur 2a	Spur 2b	Spur 2c	Spur 2d	Spur 2e	Logger Option 1	Logger Option 2	Logger Option 3	**TOTAL**
Stations	170	58.4	7.48	50.96	2.49	8.8	3.55	14.6	13.14	11.05	2.82	7.58	
Cost/Sta	$ 18.35	$ 33.76	$ 59.13	$ 32.09	$ 72.57	$ 37.67	$ 56.38	$ 41.64	$ 58.68	$ 50.93	$ 96.36	$ 61.23	
Total Cost	**$ 3,119.50**	**$ 1,971.64**	**$ 442.26**	**$ 1,635.12**	**$ 180.69**	**$ 331.48**	**$ 200.14**	**$ 607.91**	**$ 771.12**	**$ 562.77**	**$ 271.75**	**$ 464.09**	**$ 10,559**

Grade,Shape & Pull Ditches	Nelson CR RD	Spur 1	Spur 1a	Spur 2	Spur 2a	Spur 2b	Spur 2c	Spur 2d	Spur 2e	Logger Option 1	Logger Option 2	Logger Option 3	**TOTAL**
Stations	170.00	58.40	7.48	50.96	2.49	8.80	3.55	14.60	13.14	11.05	2.82	7.58	
$/STA	$ 18.35	$ 18.35	$ 18.35	$ 18.35	$ 18.35	$ 18.35	$ 18.35	$ 18.35	$ 18.35	$ 18.35	$ 18.35	$ 18.35	
Subtotal	$ 3,120	$ 1,072	$ 137	$ 935	$ 46	$ 161	$ 65	$ 268	$ 241	$ 203	$ 52	$ 139	**$ 6,439**

Block/Tanktrap	Nelson CR RD	Spur 1	Spur 1a	Spur 2	Spur 2a	Spur 2b	Spur 2c	Spur 2d	Spur 2e	Logger Option 1	Logger Option 2	Logger Option 3	**TOTAL**
Stations									1.00	1.00	1.00	1.00	
$/STA									$ 50.00	$ 50.00	$ 50.00	$ 50.00	
Subtotal									$ 50.00	$ 50.00	$ 50.00	$ 50.00	**$ 200.00**

Install Waterbars	Nelson CR RD	Spur 1	Spur 1a	Spur 2	Spur 2a	Spur 2b	Spur 2c	Spur 2d	Spur 2e	Logger Option 1	Logger Option 2	Logger Option 3	**TOTAL**
# of waterbars		20.00	3.00	20.00	1.00	2.00	1.00	4.00	8.00	6.00	2.00	5.00	
$/waterbar	$35.00	$35.00	$35.00	$35.00	$35.00	$35.00	$35.00	$35.00	$35.00	$35.00	$35.00	$35.00	
Subtotal	$ -	$ 700.00	$ 105.00	$ 700.00	$ 35.00	$ 70.00	$ 35.00	$ 140.00	$ 280.00	$ 210.00	$ 70.00	$ 175.00	**$ 2,520.00**

Landing clean up	Nelson CR RD	Spur 1	Spur 1a	Spur 2	Spur 2a	Spur 2b	Spur 2c	Spur 2d	Spur 2e	Logger Option 1	Logger Option 2	Logger Option 3	**TOTAL**
Stations		2.00	2.00		1.00	1.00	1.00	2.00	2.00	1.00	1.00	1.00	
$/STA	$ 100.00	$ 100.00	$ 100.00	$ 100.00	$ 100.00	$ 100.00	$ 100.00	$ 100.00	$ 100.00	$ 100.00	$ 100.00	$ 100.00	
Subtotal	$ -	$ 200	$ 200	$ -	$ 100	$ 100	$ 100	$ 200	$ 200	$ 100	$ 100	$ 100	**$ 1,400**

Move In	Initial	Between Proj.
Grader	$ 500	
Excavator	$1,000	

Move in costs associated with one entry for the entire project

Total Final Maintenance Costs **$ 12,059**

Kawakami 12/20/2021

Cruise Report

NC6

Sale #341-2022-W00844-01

Sale Area: Portions of section 6 in T17S, R7W, W.M., Lane County, Oregon. There are 118 net harvestable acres in this sale. There is approximately 22 acres of stream and road buffers throughout the unit. These values were determined using a combination of aerial photos, GPS, GIS, and topographic maps.

Stand Description: NC6 is mostly 70- and 85-year-old Douglas-fir with some Western Hemlock and Western red cedar scattered throughout. There is a large component of Red Alder, and some big leaf maple is also present. The sale was broken up into two units to reflect the amount of Alder. Unit 1 is everything east of the main stream running through the sale, while unit 2 is everything on the steeper hillside to the west. The hardwoods are mainly concentrated on the west side of unit 1, closest to the draws. The understory consists primarily of sword fern, salal, devils club, Oregon grape, salmon berry, vine maple, and trailing blackberry. Most of the timber sale area has variable terrain, ranging from 20-65% slopes. Although the terrain may allow for more ground-based operations, we estimate there is approximately 60% that will be cable logged and 40% that will be ground based. There is one fish stream that enters the timber sale from the southwest corner that is a tributary off Nelson Creek. There are three other small non-fish streams within the sale that are tributaries off the fish stream. This unit was appraised for both ground and cable-based operations.

Cruise Method: This unit was cruised with a relaskop using a 40, 54, and 60 BAF to a six-inch top and a spencer tape to measure diameters no smaller than a nine-inch DBH. Volumes were calculated using the SuperACE program.

Volume Tables: Volumes computed from SuperACE listed below. **

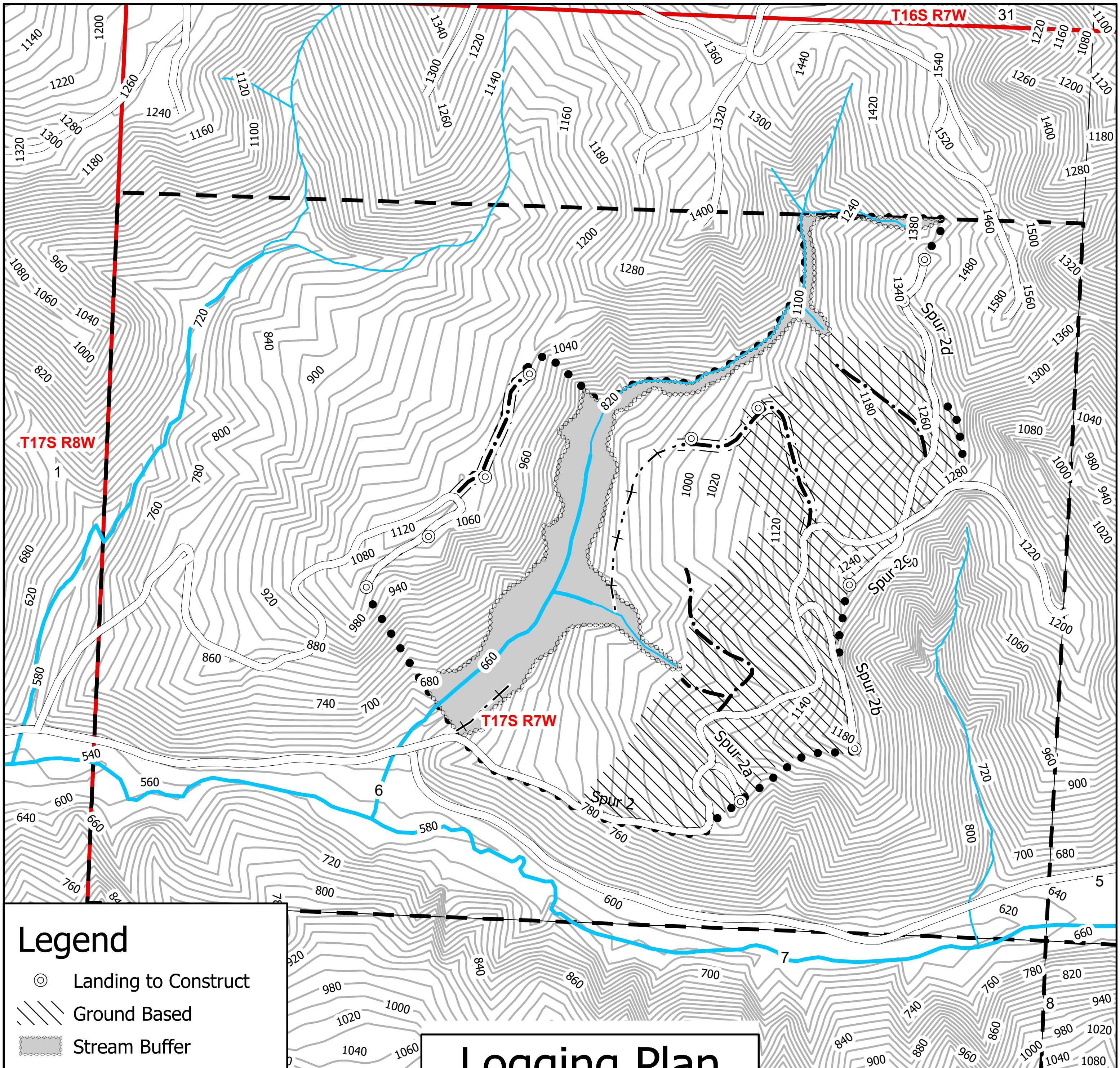
NC6 Cruise Data (MBF): Unit 1

Species	**AVG. DBH**	**Total MBF**	**Grades by MBF**			
			2S	**3S**	**4S**	**Camp Run**
Douglas-fir	24”	3948	2920	857	171	
Western Hemlock	19”	57	30	20	7	
red alder	15”	637				637
bigleaf maple	14”	227				227
					Total MBF	**4869**

NC6 Cruise Data (MBF): Unit 2

Species	**AVG. DBH**	**Total MBF**	**Grades by MBF**			
			2S	**3S**	**4S**	**Camp Run**
Douglas-fir	16"	737	368	305	64	--
Western Hemlock	20"	37	16	19	2	--
					Total MBF	**774**

**All volumes listed in the table above are NET volumes.



Logging Plan

Legend

- Landing to Construct
- Ground Based
- Stream Buffer
- Timber Sale Boundary
- ODF Ownership

Roads

- All weather
- New Road Construction
- Project 4 Spurs
- Logger Option Spurs

Streams

- Fish
- Nonfish

OF TIMBER SALE CONTRACT NO. 341-2022-W00844-01
NC6
SECTION 6, T17S, R7W, W.M.
LANE COUNTY, OREGON

Net Acres: 118

1,000 0 1,000 2,000
Feet

N

This product is for informational use
and may not have been prepared
for or be suitable for legal, engineering
or surveying purposes. Users of this information should
review or consult the primary data and information
sources to ascertain the usability of this information.

Scale: 1:9,000
Contours = 20ft