



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
East Greenleaf
Sale WL-341-2021-W00782-02

District: Western Lane

Date: October 13, 2020

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$2,910,223.68	\$4,372.80	\$2,914,596.48
		Project Work:	(\$187,719.45)
		Advertised Value:	\$2,726,877.03



Timber Sale Appraisal East Greenleaf Sale WL-341-2021-W00782-02

District: Western Lane

Date: October 13, 2020

Timber Description

Location: Section 14 of T16S R8W W.M.

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	24	0	97
Western Hemlock / Fir	18	0	97
Alder (Red)	13	0	97

Volume by Grade	2S	3S & 4S 6"-11"	Camprun	6" - 7"	Total
Douglas - Fir	4,431	1,645	0	0	6,076
Western Hemlock / Fir	0	0	1,696	0	1,696
Alder (Red)	0	0	0	30	30
Total	4,431	1,645	1,696	30	7,802

Comments: Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Costs: \$677.75/MBF = \$1,009.19/MBF - \$331.44/MBF

Other Hardwoods Stumpage Price = \$2.50/ton x 27 ton/load x 1 load/3.4 mbf = \$19.85/mbf

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

Conifer Utility SC & PC = \$80/MBF

Hauling Cost Allowance = equivalent to \$950 daily truck cost.

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

Other Costs (No Profit & Risk added)

Equipment wash = \$500

Logger Option Road Cost = \$68,939

Firewood sorting and landing slash piling = \$2,000

Final Road Maintenance = \$14,516

BLM Road Maintenance and Rock Wear Fees = \$47,047

Weyerhaeuser Replacement Rock = \$10,691

TOTAL Other Costs (No Profit and Risk added) = \$143,693



Timber Sale Appraisal
East Greenleaf
Sale WL-341-2021-W00782-02

District: Western Lane

Date: October 13, 2020

Logging Conditions

Combination#: 1	Douglas - Fir	85.00%
	Western Hemlock / Fir	85.00%
	Alder (Red)	85.00%
Logging System:	Shovel	Process: Manual Falling/Delimbing
yarding distance:	Long (1,500 ft)	downhill yarding: No
tree size:	Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF	
loads / day:	6	bd. ft / load: 4200
cost / mbf:	\$156.25	
machines:	Shovel Logger	
Combination#: 2	Douglas - Fir	15.00%
	Western Hemlock / Fir	15.00%
	Alder (Red)	15.00%
Logging System:	Cable: Large Tower >=70	Process: Manual Delimbing
yarding distance:	Medium (800 ft)	downhill yarding: No
tree size:	Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF	
loads / day:	5	bd. ft / load: 4200
cost / mbf:	\$300.00	
machines:	Log Loader (A) Tower Yarder (Large)	



Timber Sale Appraisal
East Greenleaf
Sale WL-341-2021-W00782-02

District: Western Lane

Date: October 13, 2020

Logging Costs

Operating Seasons: 1.00	Profit Risk: 20%
Project Costs: \$187,719.45	Other Costs (P/R): \$0.00
Slash Disposal: \$0.00	Other Costs: \$143,693.00

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	4.2
Western Hemlock / Fir	\$0.00	3.0	4.2
Alder (Red)	\$0.00	3.0	3.8



Timber Sale Appraisal
East Greenleaf
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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
Douglas - Fir									
\$177.81	\$3.15	\$0.56	\$77.66	\$0.00	\$51.84	\$0.00	\$2.00	\$18.42	\$331.44
Western Hemlock / Fir									
\$177.81	\$3.15	\$0.56	\$77.66	\$0.00	\$51.84	\$0.00	\$2.00	\$18.42	\$331.44
Alder (Red)									
\$177.81	\$3.15	\$0.56	\$85.83	\$0.00	\$53.47	\$0.00	\$2.00	\$18.42	\$341.24

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$763.36	\$431.92	\$0.00
Western Hemlock / Fir	\$0.00	\$500.00	\$168.56	\$0.00
Alder (Red)	\$0.00	\$487.00	\$145.76	\$0.00



Timber Sale Appraisal
East Greenleaf
Sale WL-341-2021-W00782-02

District: Western Lane

Date: October 13, 2020

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	6,076	\$431.92	\$2,624,345.92
Western Hemlock / Fir	1,696	\$168.56	\$285,877.76
Alder (Red)	30	\$145.76	\$4,372.80

Gross Timber Sale Value

Recovery: \$2,914,596.48

Prepared By: Ross Huffman

Phone: 541-935-2283

State Timber Sale Contract
 East Greenleaf
 WL-341-2021-W00782-02

Road Brushing Costs

Location	16-8-1	Spur 1	Spur 1a	Spur 1b	
Point to Point/Satationing	A to C	C to F, I to J	0+00 to 14+52	F to G	
Miles	1.88	1.96	0.28	0.17	Total
Brushing Intensity	Light	Light	Light	Light	
Cost/mile	\$ 1,150	\$ 1,150	\$ 1,150	\$ 1,150	
Total Cost	\$ 2,162	\$ 2,254	\$ 322	\$ 196	\$ 4,934

Logger Option Brushing Costs

Location	Logger Option 1	Logger Option 2	Logger Option 3	Logger Option 4	
Point to Point/Satationing	0+00 to 6+28	0+00 to 5+71	0+00 to 5+79	0+00 to 6+37	
Miles	0.12	0.11	0.11	0.12	Total
Brushing Intensity	Medium to High	Medium to High	Medium to High	Medium to High	
Cost/mile	\$ 2,300	\$ 2,300	\$ 2,300	\$ 2,300	
Total Cost	\$ 276	\$ 253	\$ 253	\$ 276	\$ 1,058

Logger Option Subgrade Construction/Culverts

Processing and Decking Right-of-Way Logs Not Included

Totals	Logger Option 1	Logger Option 2	Logger Option 3	Logger Option 4	TOTAL
Stations	6.28	5.71	5.79	6.37	24.15
Cost/Sta	\$ 711.00	\$ 735.00	\$ 745.00	\$ 747.00	
Cost	\$ 4,468.00	\$ 4,197.00	\$ 4,315.00	\$ 4,761.00	\$ 17,741.00

Earthwork

Clearing and Grubbing	Logger Option 1	Logger Option 2	Logger Option 3	Logger Option 4	TOTAL
Acreage	0.34	0.32	0.33	0.37	
Cost/Acre	\$1,519.53	\$1,519.53	\$1,519.53	\$1,519.53	
Total	\$ 517	\$ 487	\$ 502	\$ 563	\$ 2,069

Excavation yards are bank run from State's design

Construction/Excavation	Logger Option 1	Logger Option 2	Logger Option 3	Logger Option 4	TOTAL
Stations	1.5	1.5	1.5	1.5	
Drift/Excavation Cu Yd w Fluff	1070.51	996.71	1034.91	1165.81	
\$/sta	\$138.66	\$138.66	\$138.66	\$138.66	
Drift/Excavation \$/yd	\$2.50	\$2.50	\$2.50	\$2.50	
Landing Construction	\$442.11	\$442.11	\$442.11	\$442.11	
Subtotal	\$ 3,327	\$ 3,143	\$ 3,238	\$ 3,566	\$ 13,274

Subgrade Treatment

Compaction w/ Roller Surface Rock	Logger Option 1	Logger Option 2	Logger Option 3	Logger Option 4	TOTAL
Road Stations	6.28	5.71	5.79	6.37	
Cost/STA	\$ 64.19	\$ 64.19	\$ 64.19	\$ 64.19	
Subtotal	\$ 404	\$ 367	\$ 372	\$ 409	\$ 1,552

Grade and Shape (Including ditch and culvert cleaning)	Logger Option 1	Logger Option 2	Logger Option 3	Logger Option 4	TOTAL
Road Stations	6.28	5.71	5.79	6.37	24.15
Cost/STA	\$ 34.96	\$ 34.96	\$ 34.96	\$ 34.96	
Subtotal	\$ 220	\$ 200	\$ 203	\$ 223	\$ 846

Project Cost \$ 17,741.00

Move In Cost

Total Cost \$ 17,741.00

State Timber Sale Contract
 East Greenleaf
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Subgrade Construction/Culverts

Processing and Decking Right-of-Way Logs Not Included

Totals	Spur 1	Spur 1a	16-8-1	TOTAL
Stations	103.56	14.52	99.04	217.12
Cost/Sta	\$ 59.00	\$ 76.00	\$ 60.00	
Cost	\$ 6,150.00	\$ 1,108.00	\$ 5,943.00	\$ 13,201.00

Earthwork

Clearing and Grubbing	Spur 1	Spur 1a	16-8-1	TOTAL
Acreage				
Cost/Acre	\$1,519.53	\$1,519.53	\$1,519.53	
Total	\$ -	\$ -	\$ -	\$ -

Excavation yards are bank run from State's design

Construction/Excavation	Spur 1	Spur 1a	16-8-1	TOTAL
Stations				
Drift/Excavation Cu Yd w Fluff				
\$/sta	\$138.66	\$138.66	\$138.66	
Drift/Excavation \$/yd	\$2.50	\$2.50	\$2.50	
Landing Construction	\$0.00	\$442.11	\$0.00	
Subtotal	\$ -	\$ 443	\$ -	\$ 443.00

Culverts	Spur 1	Spur 1a	16-8-1	TOTAL
ACSP	1		1	
Length (ft)	40		40	
Diameter	18"		18	
Cost/Foot	\$ 13.85		\$ 13.85	
Replace culverts	1		1	
Subtotal	\$ 554.00	\$ -	\$ 554.00	\$ 1,108.00
Installation Cost	\$ 859	\$ -	\$ 859	\$ 1,718.00

* Alumized Steel w as used for costing purposes based on prices as of 06/20/19

Subgrade Treatment

Grade and Shape (Including ditch and culvert cleaning)	Spur 1	Spur 1a	16-8-1	TOTAL
Road Stations	103.56	14.52	99.04	\$ 217.12
Cost/STA	\$ 45.73	\$ 45.73	\$ 45.73	
Subtotal	\$ 4,737	\$ 665	\$ 4,530	\$ 9,932.00

Move in Cost	Initial	Between Projects	Project Cost	\$ 13,201.00
D-7 Cat	\$ 1,000			
Dump Truck x 2	\$ 400		Move In Cost	\$ 4,500
grader	\$ 500			
small excavator	\$ 500		Total Cost	\$ 17,701.00
vibratory roller	\$ 400			
water truck	\$ 200			
large excavator	\$ 1,500			

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

Logger Option Rocking and Compaction

Commercial

Rock Quantity (Inplace)

Base Rock	Logger Option 1	Logger Option 2	Logger Option 3	Logger Option 4	TOTAL
Rock Size	3"-0"	3"-0"	3"-0"	3"-0"	
Stations	6.28	5.71	5.79	6.37	24.15
Approx yds/sta	44	44	44	44	
Subtotal base (cu. yds)	280	250	250	280	1060

Cap Rock

Cap Rock	Logger Option 1	Logger Option 2	Logger Option 3	Logger Option 4	TOTAL
Rock Size	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	
Stations	6.28	5.71	5.79	6.37	
Approx yds/sta					
Subtotal cap (cu. yds)	0	0	0	0	0

Landings

Landings	Logger Option 1	Logger Option 2	Logger Option 3	Logger Option 4	TOTAL
Rock Size	Jaw Run	Jaw Run	Jaw Run	Jaw Run	
Stations	1.00	1.00	1.00	1.00	
Approx yds/sta	40	40	40	40	
Subtotal base (cu. yds)	40	40	40	40	160

ROCK COST (Rock + Delivery)

Road Segment/Name	Logger Option 1	Logger Option 2	Logger Option 3	Logger Option 4	TOTAL
Rock Size	3"-0"	3"-0"	3"-0"	3"-0"	
Approx cu. yds	280	250	250	280	1060
Cost/yd (includes load/spread)	\$ 38.46	\$ 38.46	\$ 38.46	\$ 38.46	
Subtotal Cost "Base" Rock	\$ 10,769	\$ 9,616	\$ 9,616	\$ 10,769	\$ 40,770
Approx cu. yds Landing					
Rock Size	Jaw Run	Jaw Run	Jaw Run	Jaw Run	
Approx cu. yds	40	40	40	40	160
Cost/yd (includes load/spread)	\$ 36.29	\$ 36.29	\$ 36.29	\$ 36.29	
Subtotal Cost "Landing" Rock	\$ 1,452	\$ 1,452	\$ 1,452	\$ 1,452	\$ 5,807
Grand total quarry approx yds	320	290	290	320	1220
Total Quarry Rock Cost	\$ 12,221	\$ 11,067	\$ 11,067	\$ 12,221	\$ 46,577

Compaction w/Processing (Stations)

Compaction w/Processing (Stations)	Logger Option 1	Logger Option 2	Logger Option 3	Logger Option 4	TOTAL
Cost/cu. Yds	\$2.00	\$2.00	\$2.00	\$2.00	
Subtotal Processing	\$ 640	\$ 580	\$ 580	\$ 640	\$ 2,440

\$/yd³ rock in place & compacted

\$/yd ³ rock in place & compacted	Logger Option 1	Logger Option 2	Logger Option 3	Logger Option 4	TOTAL
Total Rock Costs	\$12,861	\$11,647	\$11,647	\$12,861	\$49,017

Move-in included in subgrade construction

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

State Timber Sale Contract
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Rocking and Compaction

Rock Source:

Commercial

Rock Quantity (Inplace)

Base Rock	Spur 1	Spur 1a	16-8-1	TOTAL
Rock Size	3"-0"	3"-0"	3"-0"	
Stations		6.95	99.04	105.99
Approx yds/sta		33	0	
Subtotal base (cu. yds)	0	230	0	230
Cap Rock	Spur 1	Spur 1a	16-8-1	TOTAL
Rock Size	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	
Stations	103.56	6.95	99.04	209.55
Approx yds/sta	17	11	11	
Subtotal cap (cu. yds)	1760	80	1090	2930
Landings	Spur 1	Spur 1a	16-8-1	TOTAL
Rock Size	Jaw Run	Jaw Run	Jaw Run	
Stations	4.00	1.00	0.00	
Approx yds/sta	40	40	40	
Subtotal base (cu. yds)	160	40	0	200
Rock Size	1 1/2"-0"	1 1/2"-0"	3"-0"	
Number of Points	3		1	
Curve Widening/Spot Rocking (Yds)	10	10	40	
Subtotal Spot/Widening Rock	30	0	40	70
Energy Disipator/ Drain/ Backfill Rock	Spur 1	Spur 1a	16-8-1	TOTAL
Rock Size	1 1/2"-0"		1 1/2"-0"	
Approx cu. yds	10		10	
Energy Disipator/ Drain Rock Points	1		1	1.00
Subtotal Energy Disipator/Drain/ Backfill Rock	10		10	20

ROCK COST (Rock + Delivery)

Road Segment/Name	Spur 1	Spur 1a	16-8-1	TOTAL
Rock Size	3"-0"	3"-0"	3"-0"	
Approx cu. yds	0	230	0	230
Cost/yd (includes load/spread)	\$ 38.46	\$ 38.46	\$ 38.46	
Subtotal Cost "Base" Rock	\$ -	\$ 8,846	\$ -	\$ 8,846
Rock Size	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	
Approx cu. yds	1760	80	1090	2930
Cost/yd (includes load/spread)	\$ 39.16	\$ 39.16	\$ 39.16	
Subtotal Cost "Cap" Rock	\$ 68,925	\$ 3,133	\$ 42,687	\$ 114,745
Approx cu. Yds Spot/Widening	30	0	40	70
Cost/yd (includes load/spread)	\$ 39.16	\$ 39.16	\$ 39.16	
Subtotal	\$1,174.87	\$0.00	\$1,566.49	
Rock Size	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	
Approx cu. Yds Energy Disipator/Drain/Backfill Rock	10	0	10	20
Cost/yd (includes load/spread)	\$ 39.16	\$ 39.16	\$ 39.16	
Subtotal	\$ 391.62	\$0.00	\$391.62	
Subtotal Cost "Additional" Rock	\$ 1,566	\$ -	\$ 1,958	\$ 3,525
Approx cu. yds Landing				
Rock Size	Jaw Run	Jaw Run	Jaw Run	
Approx cu. yds	160	40	0	200
Cost/yd (includes load/spread)	\$ 36.29	\$ 36.29	\$ 36.29	
Subtotal Cost "Landing" Rock	\$ 5,807	\$ 1,452	\$ -	\$ 7,258
Grand total quarry approx yds	1950	350	1140	3440
Total Quarry Rock Cost	\$ 76,299	\$ 13,431	\$ 44,645	\$ 134,375

Compaction w/Processing (Stations)	Spur 1	Spur 1a	16-8-1	TOTAL
Cost/cu. Yds	\$2.00	\$2.00	\$2.00	
Subtotal Processing	\$ 3,900	\$ 700	\$ 2,280	\$ 6,880
\$/yd³ rock in place & compacted	Spur 1	Spur 1a	16-8-1	Total
Total Rock Costs	\$80,199	\$14,131	\$46,925	\$141,255

Move-in included in subgrade construction
 Due to rounding, the numbers in the table above may not add up to the totals shown.

Final Road Maintenance Cost Summary

Totals	Spur 1	Spur 1a	16-8-1	TOTAL
Stations	103.56	14.52	99.04	
Cost/Sta	\$ 102.91	\$ 32.47	\$ 19.06	
Total Cost	\$ 10,657.76	\$ 471.44	\$ 1,887.38	\$ 13,016.00

Spot Rocking	Spur 1	Spur 1a	16-8-1	TOTAL
Total Yds	200			
Rock Size	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	
\$/yd	\$ 39.16	\$ 39.16	\$ 39.16	
Subtotal	\$ 7,832	\$ -	\$ -	\$ 7,832

Grade, Shape & Pull Ditches	Spur 1	Spur 1a	16-8-1	TOTAL
Stations	103.56	14.52	99.04	
\$/STA	\$ 18.35	\$ 18.35	\$ 18.35	
Subtotal	\$ 1,900	\$ 266	\$ 1,817	\$ 3,983

Install Waterbars	Spur 1	Spur 1a	16-8-1	TOTAL
# of waterbars	15.00	3.00	2.00	
\$/waterbar	\$35.00	\$35.00	\$35.00	
Subtotal	\$ 525.00	\$ 105.00	\$ 70.00	\$ 700.00

Landing clean up	Spur 1	Spur 1a	16-8-1	TOTAL
Stations	4.00	1.00	0.00	
\$/STA	\$ 100.00	\$ 100.00	\$ 100.00	
Subtotal	\$ 400	\$ 100	\$ -	\$ 500

Move In	Initial	Betw een Proj.
Grader	\$ 500	
Vibratory Roller		
D * Cat		
Excavator	\$1,000	
Dump Truck		

Move in costs associated with one entry for the entire project

Total Final Maintenance Costs

\$ 14,516

Final Road Maintenance Cost Summary

Totals	Logger Option 1	Logger Option 2	Logger Option 3	Logger Option 4	TOTAL
Stations	6.28	5.71	5.79	6.37	
Cost/Sta	\$ 45.42	\$ 48.12	\$ 47.71	\$ 45.04	
Total Cost	\$ 285.24	\$ 274.78	\$ 276.25	\$ 286.89	\$ 1,123.15

Spot Rocking	Logger Option 1	Logger Option 2	Logger Option 3	Logger Option 4	TOTAL
Total Yds					
Rock Size	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	1 1/2"-0"	
\$/yd	\$ 39.16	\$ 39.16	\$ 39.16	\$ 39.16	
Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -

Grade, Shape & Pull Ditches	Logger Option 1	Logger Option 2	Logger Option 3	Logger Option 4	TOTAL
Stations	6.28	5.71	5.79	6.37	
\$/STA	\$ 18.35	\$ 18.35	\$ 18.35	\$ 18.35	
Subtotal	\$ 115	\$ 105	\$ 106	\$ 117	\$ 443

Install Waterbars	Logger Option 1	Logger Option 2	Logger Option 3	Logger Option 4	TOTAL
# of waterbars	2.00	2.00	2.00	2.00	
\$/waterbar	\$35.00	\$35.00	\$35.00	\$35.00	
Subtotal	\$ 70.00	\$ 70.00	\$ 70.00	\$ 70.00	\$ 280

Landing clean up	Logger Option 1	Logger Option 2	Logger Option 3	Logger Option 4	TOTAL
Stations	1.00	1.00	1.00	1.00	
\$/STA	\$ 100.00	\$ 100.00	\$ 100.00	\$ 100.00	
Subtotal	\$ 100	\$ 100	\$ 100	\$ 100	\$ 400

Move In
Grader
Vibratory Roller
D * Cat
Excavator
Dump Truck

Move in costs associated with one entry for the entire project

Total Final Maintenance Costs Logger Option **\$ 1,123**

Culvert Removal and End Haul

*Move in costs included in combined prj. Costs

1. Spur 1b Improvement and Ramp Down Construction

Turn Around	Construction
Stations	1
Drift/Exc w/fluff	753.6
\$/STA	\$ 138.66
Drift/Exc w/fluff	\$ 2.50
Subtotal	\$ 2,023.00

Spur 1b	Grade and Shape (Including ditch and culvert cleaning)
Road Stations	8.83
Cost/STA	\$ 45.73
Subtotal	\$ 404.00

2. Earthwork

Ramp down Cut	453
Crossing Fill Removal	1873
Excavation	
Cubic Yards	2326
\$/yd^3	\$ 4.95
Subtotal	\$ 11,509.00

3. End Haul

Summary	
Total Loose Truck Haul Cu. Yds.	3326
Total End Haul Costs	\$ 9,374.42
Avg Cost/ Cu. Yds.	\$ 2.82

4. Seeding and Mulching

	Mulch	Seed	Personnel
Rate	1 ton/acre	100 lbs/acre	30
Acres/#People	1	1	2
Quantity	4 bales	100	6
Cost/Item	\$ 5.00	\$ 70.00	\$ 360.00
Cost	\$ 20.00	\$ 140.00	\$ 360.00
Subtotal	\$ 520.00		

Total Costs	\$ 23,830.42
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State Timber Sale Contract
East Green Leaf
WL-341-2021-W00782-02

End Haul For Road

Total in place volume 2326 yds³

Spur Name	In Place (yds³)	Fill Type	Truck	In Fill	Clean Fill	WA	Distance	Cost/yd	Haul Cost
Spur 1b	1396	E2	1996	1396	1116	WA1	0.28	2.30	\$4,593.58
Spur 1b	930	E2	1330	930	744	WA2	0.67	3.59	\$4,780.85

Loose Truck Haul Total Cu. Yds. **3326**
In-Fill Total Cu. Yds. **2326**

Total End Haul Cost **\$9,374.42**
Avg Cos/yd **\$2.82**

Summary	
Total Loose Truck Haul Cu. Yds.	3326
Total End Haul Costs	\$9,374.42
Avg Cost/ Cu. Yds.	\$ 2.82

Waste Area Endhaul

Hourly Costs	WA1	WA2	WA3
Hourly Rate for a truck	\$90	\$90	\$90
Number of trucks	2	2	2
excavator + operator	\$ 151.18	\$ 151.18	\$ 151.18
Total	\$ 331.18	\$ 331.18	\$ 331.18
Haul Speed	mph	10	10
Distance	miles	0.28	0.67
Time	hrs	0.056	0.134
Dump and Load	hrs	0.083	0.083
total time	0.139	0.217	0.283
Loads per hr	7	4.6	3.5
Yds per hr	143.88	92.17	70.67
Cost per Cu. Yd	\$ 2.30	\$ 3.59	\$ 4.69

Expansion Factors

75 % Rock 25 % Earth (E1) Truck In Fill 1.12
75% Earth 25% Rock (E2) 1.31 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.

"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

	<u>Units</u>	<u>Quantity</u>	<u>Cost/Unit</u>	<u>Total Cost</u>
Equipment wash prior to move-out	Operation			\$ 500
Logger Option Road Construction & Rocking Cost	Operation			\$ 68,939
Firewood sorting and landing slash piling	Operation			\$ 2,000
Weyerhaeuser Replacement Rock	Operation	273	\$ 39.16	\$ 10,691
BLM Road Use Fees	Operation			\$ 47,047
Final Road Maintenance	Operation			\$ 14,516

Total "Other Costs" With No Additional Profit and Risk:

\$ 143,693

Cost per MBF 7,803 MBF

\$ 18.42

East Greenleaf
WL-341-2021-W00782-02
Combined Project Costs

Project 1	Road Brushing	\$ 4,933.50
Project 2	Construct and compact sub-grades, Road Improvements, Culverts	\$ 13,201.00
Project 3	Culvert Removal and End Haul	\$ 23,830.42
Project 4	Spread and compact rock for Roads	\$ 141,254.53
Project 5	Move In	\$ 4,500.00
TOTAL PROJECT COSTS		\$ 187,719.45

Cruise Report

East Greenleaf

SALE # 341-2021-W00782-02

Sale Area: Portions of Section 14, T16S, R08W, W.M., Lane County, Oregon. The sale's net harvestable acres are 155. There are approximately 12 acres of stream and road buffers. Acres were determined using a combination of aerial photos, GPS, GIS, and topographic maps.

Stand Description: East Greenleaf is dominated by 79 and 82 year old Douglas-fir and 79 year old Western Hemlock. A small component of bigleaf maple, western red cedar and red alder are present. The majority of the hardwood component is concentrated near the draws. The understory consists of primarily vine maple, sword fern, salal, Oregon grape, salmonberry, and oxalis. The majority of the timber sale area is flat ranging from 0%-30% slopes and a small portion of the timber sale with slopes that are primarily 50% and above in the timber sale area. There are two small type N streams branching off of one small type F stream located near the south eastern portion of the timber sale area and one small type N on the western portion of the sale. This unit was appraised for both ground and cable based operations.

Cruise Method: Unit 1 and 2 were cruised using a 62 BAF and to a six inch top and calculated with the SuperACE program.

Volume Tables: Volumes were computed using the SuperACE program and then deducted 17%. The stand was deducted due to a higher than normal volume compared to adjacent timber sale and tops being cruised to 6" and not accounting for breakage and defect in stand.

Cruise Data					
East Green Leaf Area w/17% Defect: Total Acres 155					
Species	AVG. DBH	% Net BdFt.	Grade	Bd. Ft. per Acre	Total Net MBF
DF		72	2S	28,584	4,431
DF		19	3S	7,292	1,130
DF		9	4S	3,326	515
DF Totals	24	78		39,202	6,076
WH Totals	18.5	22	CR	10,944	1,696
RA Totals	13.5	0	CR	195	30
Totals	22.1	100		50,340	7,802

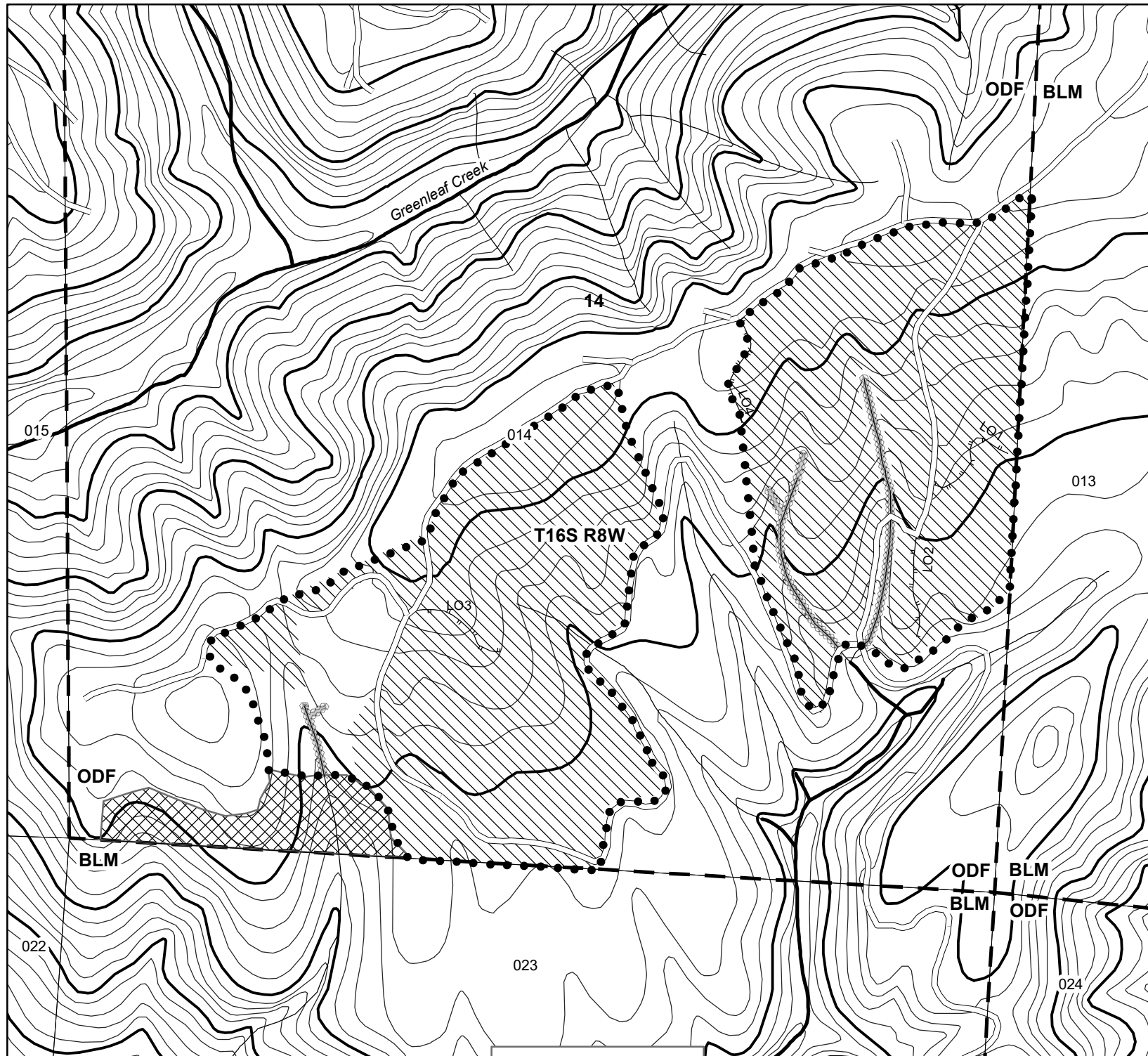
*Number may be different from Units due to rounding

Cruise Data					
Area 1 w/ 17% Defect: Total Acres 85					
Species	AVG. DBH	% Net BdFt.	Grade	Bd. Ft. per Acre	Total Net MBF
DF		71	2S	29,115	2,038
DF		20	3S	8,292	580
DF		9	4S	3,521	247
DF Totals	23.4	81		40,927	2,864
WH Totals	17.7	19	CR	9,630	673
Totals	21.8	100		50,558	3,538

*Numbers may be different from units due to rounding.

Cruise Data					
Area 2 w/ 17% Defect: Total Acres 70					
Species	AVG. DBH	% Net BdFt.	Grade	Bd. Ft. per Acre	Total Net MBF
DF		74	2S	28,145	2,392
DF		17	3S	6,470	550
DF		9	4S	3,166	269
DF Totals	24.7	75		37,781	3,211
WH Totals	19.1	24	CR	12,025	1,022
RA Totals	13.5	1	CR	355	30
Totals	22.4	100		50,161	4,263

*Numbers may be different from units due to rounding.



Logging Map

TOTAL NET ACRES = 155

OF TIMBER SALE CONTRACT NO. WL-341-2021-W00782-02
EAST GREENLEAF
PORTIONS OF SECTIONS 14, T16S, R8W, W.M.
LANE COUNTY, OREGON

1 Inches = 750 feet

0 250 500 1,000 1,500 2,000 Feet

Contour Interval = 40 Feet

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sources to ascertain the usability of this information.



"STEWARDSHIP IN FORESTRY"

Legend

●●●●● Timber Sale Boundary

Roads

— Surfaced Road

— Logger Option Spurs

— Fish Stream

— Nonfish Stream

▨ Chainsaw Restricted Area

▨ Buffers

— ODF Ownership

▨ Ground Based

Cable Yarding