

Sale FG-341-2022-W00860-01

District: Forest Grove Date: August 19, 2021

Cost Summary

	Conifer	Hardwood	Total	
Gross Timber Sale Value	\$1,676,416.00	\$10,828.00	\$1,687,244.00	
		Project Work:	(\$49,755.00)	
		Advertised Value:	\$1,637,489.00	



Sale FG-341-2022-W00860-01

District: Forest Grove Date: August 19, 2021

Timber Description

Location:

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)		
Douglas - Fir	23	0	98		
Alder (Red)	13	0	95		

Volume by Grade	2\$	3S & 4S 6"- 11"	Camprun	Total
Douglas - Fir	2,257	543	0	2,800
Alder (Red)	0	0	25	25
Total	2,257	543	25	2,825

Comments: Pond Values Used: Local Pond Values, June 2021.

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost: \$842.42/MBF = \$1,054/MBF - \$211.58/MBF

Western hemlock and Other Conifers Stumpage Price = Pond Value minus Logging Cost: \$396.42/MBF = \$608/MBF - \$211.58/MBF

Bigleaf maple and Other Hardwoods Stumpage Price = Pond Value minus Logging Cost: \$168.12/MBF = \$455/MBF - \$286.88/MBF

BRANDING AND PAINTING COST ALLOWANCE = \$2.00/MBF

FUEL COST ALLOWANCE = \$3.00/Gallon

HAULING COST ALLOWANCE
Hauling costs equivalent to \$950 daily truck cost.

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

Other Costs (No Profit & Risk added):
Machine Time to Block/Waterbar Roads,and Skid Trails:
20 hours x \$150/hour = \$3,000
Machine Time to Pile Landing Slash:
20 hours x \$150/hour = \$3,000
Equipment Cleaning: 3 pieces x \$1,000/Piece = \$3,000
Slash Treatment: 36 acres x \$200/acre = \$7,200
TOTAL Other Costs (No Profit & Risk added) = \$16,200

ROAD MAINTENANCE

(Includes: Move-in, Grading, Rolling and Spot Rocking)

Move-in = \$2,497.47

General Road Maintenance: 5.80 X \$2,430.11 = \$14,094.63 TOTAL Road Maintenance: \$16,592.10 / 2,825 MBF = \$5.87/MBF



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Logging Conditions

Combination#: 1 Douglas - Fir 26.00%

Alder (Red) 26.00%

Logging System: Cable: Small Tower <=40 **Process:** Stroke Delimber

yarding distance: Short (400 ft) downhill yarding: No

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

loads / day: 10 bd. ft / load: 4600

cost / mbf: \$121.74

machines: Log Loader (A)

Stroke Delimber (A) Tower Yarder (Small)

Combination#: 2 Douglas - Fir 74.00%

Alder (Red) 74.00%

Logging System: Shovel Process: Feller Buncher

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

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

loads / day: 16 bd. ft / load: 4600

cost / mbf: \$48.07

machines: Feller Buncher w/ Delimber



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Logging Costs

Operating Seasons: 2.00

Profit Risk: 15%

Project Costs: \$49,755.00

Other Costs (P/R): \$0.00

Slash Disposal: \$0.00

Other Costs: \$16,200.00

Miles of Road

Road Maintenance:

\$5.87

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	2.0	4.8	
Alder (Red)	\$0.00	2.0	3.0	



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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
Douglas -	Fir								
\$67.22	\$5.99	\$3.11	\$100.94	\$0.00	\$26.59	\$0.00	\$2.00	\$5.73	\$211.58
Alder (Red)									
\$67.22	\$6.16	\$3.11	\$166.25	\$0.00	\$36.41	\$0.00	\$2.00	\$5.73	\$286.88

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$810.30	\$598.72	\$0.00
Alder (Red)	\$0.00	\$720.00	\$433.12	\$0.00



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Summary

Amortized

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

Unamortized

Specie	MBF	Value	Total	
Douglas - Fir	2,800	\$598.72	\$1,676,416.00	
Alder (Red)	25	\$433.12	\$10,828.00	

Gross Timber Sale Value

Recovery: \$1,687,244.00

Prepared By: Adrian Torres Phone: 503-359-7460

PROJECT COST SUMMARY SHEET

Timber Sale: Sale Number:	Devilo FG-341-2022		
PROJECT NO. 1: ROCKED ROAD CONSTRUC	CTION		
- -	Road Segment K to L M to N	Length 7+00 3+00 10+00 stations	Cost \$7,103.84 \$3,250.70
Total Rock =	928 cy	0.19 miles 3" - 0	
		Move-in =	\$2,062.02
		TOTAL PROJECT COST =	\$12,416.56
PROJECT NO. 2: ROAD IMPROVEMENT			
	Road Segment A to B C to D E to F G to H I to J P Q R	Length 134+50 12+40 11+80 12+80 5+00 -	Cost \$12,421.04 \$1,630.35 \$1,654.22 \$1,652.25 \$1,274.68 \$156.00 \$156.00 \$156.00
Total Rock =	424 cy 650 cy	176+50 stations 3.34 miles 1½" - 0 3" - 0	
		Move-in = TOTAL PROJECT COST =	\$3,710.51 \$22,811.05
PROJECT NO. 3: ROAD VACATING			
-	Road Segment V1 to V2 V3 to V4	Length 5+35 3+00 8+35 stations 0.16 miles	Cost \$1,442.60 \$3,263.75
		Move-in =	\$937.23
PROJECT NO. 4: GATE CONSTRUCTION AND	INSTALLATION	TOTAL PROJECT COST =	\$5,643.58
TROSECTINO. 4. CATE CONCINCOTION AND			
Total Rock =	Road Segment Point O 24 cy	Gate Size 30' 1½" - 0	Cost \$7,408.48
	12 cy	36" - 24" Boulders Move-in =	\$1,475.33
		TOTAL PROJECT COST =	\$8,883.81
		TOTAL CREDITS =	\$49,755.00

	SUMN	MARY OF C	CONSTRUC	TION COST			
Timber Sale:	Devilooze			Sale Number:	FG-341-2022	2-W00860-01	
Road Segment:		A to B		_	Improvement:	134+50	stations
						2.55	miles
PROJECT NO. 2							
IMPROVEMENT							
Clearing & grubbing (scatter)	1.55	ac @	\$1,078.00	per acre =		\$1,670.90	
Clean culvert inlet & outlet, scatter waste	3	ea @	\$25.00	per ea =		\$75.00	
Improve Turnouts	18	ea @	\$33.00	per ea =		\$594.00	
Improve landing	1	ea @	\$110.00	per ea =		\$110.00	
Grade, ditch, & roll	134.50	sta @		per sta =		\$4,842.00	
		O	,	•	L IMPROVEMEN		\$7,291.90
CULVERTS				<u>101A</u>	LIMFROVEMEN	11 00313 =	φ1,291.90
Culverts and Bands							
18" Diameter	40	LF @	\$20.00	per LF =		\$800.00	
Markers & Stakes		O		•		,	
Culvert Markers	11	ea @	\$10.00	per ea =		\$110.00	
DOOK					TOTAL CULVER	RT COSTS =	\$910.00
ROCK							
	Rock	Base	Haul Cost	Placement/	,		
	Size	Cost \$/cy	\$/cy	Processing Cost		Rock Cost	
Cubayada ya ak		, ,	,,,	3 -	* 7		
Subgrade rock Bedding and backfill	1½" - 0	\$1.27	\$4.12	\$1.22	24	\$158.64	
Deduing and backing	1/2 - 0	φ1.21	φ4.12	Subtotal =		\$158.64	
Surfacing rock				Subiolai –	24	Ф136.04	
Spot rock	1½" - 0	\$1.27	\$4.12	\$1.22	400	\$2,644.00	
Spot rock	3" - 0	\$1.27	\$4.12	\$1.22	150	\$991.50	
				Subtotal =	550	\$3,635.50	
			T.4.1.	All D			
			Totals		ock = 574		
					" - 0 = 424		
				3	" - 0 = 150		
					TOTAL ROC	CK COSTS =	\$3,794.14
EROSION CONTROL						· · · · · · · · · · · · · · · · · · ·	,
Grass seed & fertilizer	1.00	ac @	\$425.00	per ac =		\$425.00	
					•		
				TOTAL ER	OSION CONTRO	OL COSTS =	\$425.00
					TOTAL PROJE	CT COST =	\$12,421.04

	Timber Sale:	Devilooze			ale Number:	FG-341-2022-W00860-01		
	Road Segment:		C to D			nprovement:		stations
							0.23	miles
PROJECT NO. 2								
IMPROVEMENT								
Clearing & grubbing (scatter)		0.15	ac @	\$1,078.00	per acre =		\$161.70	
Improve Turnouts		2	ea @	\$33.00	per ea =		\$66.00	
Improve Turnarounds		1	ea @	\$41.25	per ea =		\$41.25	
Improve landing		1	ea @	\$110.00	per ea =		\$110.00	
Grade, ditch, & roll		12.40	sta @	\$36.00	per sta =		\$446.40	
					TOTAL IM	PROVEMEN	T COSTS =	\$825.35
CULVERTS					TO TALL HAI	TOVEIVIEIV	1 00010	ψ020.00
Markers & Stakes								
Culvert Markers		2	ea @	\$10.00	per ea =		\$20.00	
					<u>TOT</u>	AL CULVER	T COSTS =	\$20.00
ROCK								
		Rock	Base	Haul Cost	Placement/			
		Size	Cost \$/cy	_	Processing Cost \$/	Total CY	Rock Cost	
Surfacing rock					_			
Spot rock		3" - 0	\$1.27	\$3.79	\$1.22	100	\$628.00	
Landing		3" - 0	\$1.27	\$3.79	\$1.22	25	\$157.00	
Landing		3 - 0	Ψ1.21	ψυ.1 σ	Subtotal =	125	\$785.00	
					Oubtotal =	120	\$100.00	
				Totals	All Rock	= 125	1	
					3" - (
							_	

TOTAL ROCK COSTS = \$785.00

TOTAL PROJECT COST = \$1,630.35

	0011111	<i>"</i>	0.1011100	11011 0001			
Timber Sale:		Devilooze	e	;	Sale Number:	FG-341-202	2-W00860-01
Road Segment:		E to F			mprovement:	11+80 0.22	stations miles
PROJECT NO. 2							
IMPROVEMENT							
Clearing & grubbing (scatter)	0.14	ac @	\$1,078.00	per acre =		\$150.92	
Clean culvert inlet & outlet, scatter waste	1	ea @	\$25.00	per ea =		\$25.00	
Construct Settling Ponds	3	ea @	\$25.00	per ea =		\$75.00	
Improve Turnouts	2	ea @	\$33.00	per ea =		\$66.00	
Improve landing	1	ea @	\$110.00	per ea =		\$110.00	
Grade, ditch, & roll	11.80	sta @	\$36.00	per sta =		\$424.80	
ROCK				TOTAL IM	<u>IPROVEMEN</u>	T COSTS =	\$851.72
	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$	/cy Total CY	Rock Cost	
Surfacing rock				•	•		
Spot rock	3" - 0	\$1.27	\$3.93	\$1.22	100	\$642.00	
Landing	3" - 0	\$1.27	\$3.93	\$1.22	25	\$160.50	
· · ·				Subtotal =	125	\$802.50	
			Totals	All Roc]	

TOTAL ROCK COSTS = \$802.50

TOTAL PROJECT COST = \$1,654.22

Timber Sale:		Devilooze	Э	Sa	le Number:	FG-341-202	2-W00860-01
Road Segment:		G to H		Im	provement:	12+80 0.24	stations miles
PROJECT NO. 2							
IMPROVEMENT							
Clearing & grubbing (scatter)	0.15	ac @	\$1,078.00	per acre =		\$161.70	
Improve Turnouts	2	ea @	\$33.00	per ea =		\$66.00	
Improve Turnarounds	1	ea @	\$41.25	per ea =		\$41.25	
Improve landing	1	ea @	\$110.00	per ea =		\$110.00	
Grade, ditch, & roll	12.80	sta @	\$36.00	per sta =		\$460.80	
				TOTAL IMP	ROVEMEN	T COSTS =	\$839.75
ROCK				TOTALINI	NO V LIVILIV	1 00010 =	ψ000.70
	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	, Total CY	Rock Cost	
Surfacing rock						<u>, </u>	
Spot rock	3" - 0	\$1.27	\$4.01	\$1.22	100	\$650.00	
Landing	3" - 0	\$1.27	\$4.01	\$1.22	25	\$162.50	
		•	•	Subtotal =	125	\$812.50	
			Totals	All Rock = 3" - 0]	

TOTAL ROCK COSTS = \$812.50

TOTAL PROJECT COST = \$1,652.25

Timber Sale	:	Devilooze		_ Sa	e Number:	FG-341-202	2-W00860-01
Road Segment		I to J		Imp	provement:	5+00	stations
-				-		0.09	miles
PROJECT NO. 2							
IMPROVEMENT							
Clearing & grubbing (scatter)	0.06	ac @	\$1,078.00	per acre =		\$64.68	
Improve landing	1	ea @	\$220.00	per ea =		\$220.00	
Grade, ditch, & roll	5.00	sta @	\$36.00	per sta =		\$180.00	
				TOTAL IMPI	ROVEMEN	T COSTS =	\$464.68
ROCK	_					_	
	Rock	Base	Haul Cost	Placement/			
	Size	Cost \$/cy	_	Processing Cost \$/cy	Total CY	Rock Cost	
Surfacing rock		1			·		
Spot rock	3" - 0	\$1.27	\$3.99	\$1.22	100	\$648.00	
Landing	3" - 0	\$1.27	\$3.99	\$1.22	25	\$162.00	
		•		Subtotal =	125	\$810.00	
			Totals	All Rock =	125	1	
			, ctalo	3" - 0 :			

TOTAL ROCK COSTS = \$810.00

TOTAL PROJECT COST = \$1,274.68

Timber Sale:		Devilooze			e Number:	FG-341-20)22-W00860-01
Road Segment:		K to L			nstruction:		stations
				_		0.13	miles
PROJECT NO. 1							
CONSTRUCTION							
Clearing & grubbing (scatter)	0.81	ac @	\$1,078.00	per ac =		\$873.18	
Balanced road construction	7.00	sta @	\$110.00	per sta =		\$770.00	
Turnarounds	1	ea @	\$82.50	per ea =		\$82.50	
Landing	1	ea @	\$220.00	per ea =		\$220.00	
Grade, ditch, & roll	7.00	sta @	\$36.00	per sta =		\$252.00	
				TOTAL CONS	TRUCTIO	N COSTS =	\$2,197.68
CULVERTS							
Culverts and Bands							
18" Diameter	30	LF@	\$20.00	per LF =		\$600.00	
Markers & Stakes							
Culvert markers	1	ea @	\$10.00	per ea =		\$10.00	
				TOTAL	CUI VER	T COSTS =	\$610.00
ROCK				<u> </u>			Ψ0.0.00
			Ī	Placement/	1	T	
	Rock	Base	Haul Cost		Tatal OV	Daak Caat	
	Size	Cost \$/cy	\$/cy	Processing	Total CY	Rock Cost	
				Cost \$/cy		<u> </u>	
Surfacing rock	0" 0	L 04 07	#440	£4.00	1 455	L #2 040 40	1
Base rock	3" - 0 3" - 0	\$1.27	\$4.13	\$1.22	455	\$3,012.10	
Junction	3" - 0	\$1.27	\$4.13	\$1.22	48	\$317.76	
Turnaround		\$1.27	\$4.13	\$1.22	20	\$132.40	
Landing	3" - 0	\$1.27	\$4.13	\$1.22 Subtotal =	95 618	\$628.90 \$4,091.16	
				Subiolai –	010	φ4,091.10	
			Totals	All Rock =	618	1	
			Totals	3" - 0 =		1	
				0 - 0 -	010	j	
				<u>TC</u>	TAL ROC	K COSTS =	\$4,091.16
EROSION CONTROL							
Grass seed & fertilizer	0.41	ac @	\$500.00	per ac =		\$205.00	
	-	•			CONTRO		
			<u></u>	OTAL EROSION	CONTRO	L COSTS =	\$205.00
				<u>TOT</u>	AL PROJE	CT COST =	\$7,103.84

Timber Sale:		Devilooze	9	Sal	e Number:	FG-341-2	022-W00860-01
Road Segment:		M to N		Co	nstruction:	3+00	stations
				_		0.06	miles
PROJECT NO. 1							
CONSTRUCTION							
Clearing & grubbing (scatter)	0.35		\$1,078.00			\$377.30	
Balanced road construction	3.00		\$110.00			\$330.00	
Turnarounds	1		\$82.50			\$82.50	
Landing	1	ea @	\$220.00	per ea =		\$220.00	
Grade, ditch, & roll	3.00	sta @	\$36.00	per sta =		\$108.00	<u>-</u>
				TOTAL CONS	TRUCTION	N COSTS =	\$1,117.80
ROCK							
	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost	
Curfacing rook				Cost \$/cy]
Surfacing rock Base rock	3" - 0	\$1.27	\$4.10	\$1.22	195	\$1,285.05	1
Turnaround	3" - 0	\$1.27	\$4.10	\$1.22	20	\$131.80	
Landing	3" - 0	\$1.27	\$4.10	\$1.22	95	\$626.05	1
Landing		Ψ1.27	ψ1.10	Subtotal =	310	\$2,042.90	
			Totals	All Rock = 3" - 0 =			•
				<u>TO</u>	TAL ROCI	COSTS =	\$2,042.90
EROSION CONTROL Grass seed & fertilizer	0.18	ac @	\$500.00	per ac =		\$90.00	
			<u>T</u>	OTAL EROSION	CONTRO	L COSTS =	\$90.00
				<u>TOT</u>	L PROJE	CT COST =	\$3,250.70

Timber Sale:	Devilooze			Sale Number:	FG-341-20	22-W00860-01
Road Segment:	V1 to V2			Vacating:	5+35	stations
			•		0.10	miles
PROJECT NO. 3 ROAD VACATE						
Construct tank traps	3	ea @	\$55.00 pe	r ea =	\$165.00	
Construct waterbars	2	ea @	\$27.50 per	r ea =	\$55.00	
Rip rocked road surface	5.35	sta @	\$50.00 per	r sta =	\$267.50	
Side cast / fill pullback	80.00	cy @	\$2.12 per	r cy =	\$169.60	
Remove existing puncheon	1	ea @	\$150.00 per	r ea =	\$150.00	
Grass seed & fertilizer	0.62	ac @	\$425.00 per	r ac =	\$263.50	
Mulch	0.62	ac @	\$600.00 per	r ac =	\$372.00	
				TOTAL PROJE	CT COST =	\$1,442.60

Timber Sale:	Devilooze			Sale	Sale Number:		22-W00860-01	
Road Segment:	V3 to V4				\	/acating:	3+00	stations
						-	0.06	miles
PROJECT NO. 3 ROAD VACATE								
Construct tank traps		2	ea @	\$55.00	per ea =		\$110.00	
Fill Deconstruction								
Excavate		500	cy @	\$1.64	per cy =		\$820.00	
Place and Compact fill		650	cy @	\$2.90	per cy =		\$1,885.00	
Rip rocked road surface		3.00	sta @	\$50.00	per sta =		\$150.00	
Remove existing culvert		1	ea @	\$150.00	per ea =		\$150.00	
Grass seed & fertilizer		0.35	ac @	\$425.00	per ac =		\$148.75	
					TOTA	L PROJE	CT COST =	\$3,263.75

Timber Sale: _ Road Point:		Devilooze O	Sale Number: FG-341-2022-W00860-01
road Form.			
PROJECT NO. 4			
Gate Construction			
20' Gate, Metal, paint and shop supplies	1	ea @ \$3,500.00 per ea =	\$3,500.00
Cutting, Welding and Painting	10	hr @ \$85.00 per hr =	\$850.00
GATE INSTALLATION			
Pickup, Transport and Install Gate	1	ea @ \$1,200.00 per ea =	\$1,200.00
Painting, cutting, welding and concrete	1	ea @ \$1,750.00 per ea =	\$1,750.00
			TOTAL GATE COSTS = \$7,300.00
DOOK			

ROCK

	Rock Size	Base Cost \$/cy	Haul Cost \$/cy	Placement/ Processing Cost \$/cy	Total CY	Rock Cost
Surfacing rock						
Blocking Boulders	36"-24"	\$0.80	\$0.68	\$1.22	12	\$32.40
Surfacing rock	1½" - 0	\$1.27	\$0.68	\$1.22	24	\$76.08
				Subtotal =	36	\$108.48

Totals

All Rock =	36
1½" - 0 =	24
36" - 24" =	12

TOTAL ROCK COSTS = \$108.48

TOTAL PROJECT COST = \$7,408.48

Timber Sale:		Devilooze			Sale Number	FG-341-2022-W00860-01	
Road Point:		P		_ _	Improvement:	10-041-202	2-1100000-01
PROJECT NO. 2							
IMPROVEMENT							
Clean ditch & scatter waste material	1.00	sta @	\$60.00	per sta =		\$60.00	
Remove Road blocking material	1.00	sta @	\$60.00	per sta =		\$60.00	
Grade, ditch, & roll	1.00	sta @	\$36.00	per sta =		\$36.00	
				<u>TO1</u>	TAL IMPROVEMENT	T COSTS =	\$156.00
					TOTAL PROJE	CT COST =	\$156.00

Timber Sa	le:	Devilooze			Sale Number:	FG-341-2022-W00860-01	
Road Poi	nt:	Q		-	Improvement:		
PROJECT NO. 2							
IMPROVEMENT							
Clean ditch & scatter waste material	1.00	sta @	\$60.00	per sta =		\$60.00	
End-haul blocking material	1.00	sta @	\$60.00	per sta =		\$60.00	
Grade, ditch, & roll	1.00	sta @	\$36.00	per sta =		\$36.00	
				<u>TO</u>	TAL IMPROVEMEN	COSTS =	\$156.00
					TOTAL PROJE	CT COST =	\$156.00
					IOTAL PROJEC	<u> </u>	Φ130.00

Timber Sa	le:	Devilooze			Sale Number:	FG-341-202	2-W00860-01
Road Poi	nt:	R		-	Improvement:		
PROJECT NO. 2							
IMPROVEMENT							
Clean ditch & scatter waste material	1.00	sta @	\$60.00	per sta =		\$60.00	
End-haul blocking material	1.00	sta @	\$60.00	per sta =		\$60.00	
Grade, ditch, & roll	1.00	sta @	\$36.00	per sta =		\$36.00	
				<u>TO</u>	TAL IMPROVEMEN	T COSTS =	\$156.00
							* 450.00
					TOTAL PROJEC	CTCOST=	\$156.00

Timber Sale: Devilooze Sale Number: FG-341-2022-W00860-01

PROJECT No. 1, 2 & 3 MOVE-IN, WITHIN AREA MOVE, & CLEANING COSTS

Equipment	Total	
Grader	\$849.62	
Loader (Med. & Large)	\$757.00	
Roller (smooth/grid) & Compactor	\$565.46	
Excavator (Large) - Equipment Cleaning	\$1,849.62	
Dozer (Large) - Equipment Cleaning	\$1,894.20	
Dump Truck (Off Highway)	\$2,128.57	
Water Truck (1,500 Gal)	\$140.62	
	TOTAL MOVE-IN COSTS =	\$8,185.09

QUARRY DEVELOPMENT & CRUSHING COST SUMMARY

Timber Sale: Devilooze
Sale Number: FG-341-2022-W00860-01
Stockpile Name: Beaver Dam

1 1/2" - 0: 448 cy (truck measure) 3" -0: 1,578 cy (truck measure)

Total truck yardage: 2,026 cy

Move-in

Move in loader \$647.96 Move in Dump Trucks \$300.94 Subtotal = \$948.90 Per CY = \$0.47/cy 1 1/2"-0 & 3"-0 Base Cost Load dump truck \$0.80 / cy x 2,026 \$1,620.80 cy = Subtotal = \$1,620.80

> Per CY = $\frac{\$0.80}{}$ Total = $\frac{\$2,569.70}{}$

1 1/2"-0 Cost = \$1.27/cy 3"-0 Cost = \$1.27/cy

CRUISE REPORT Devilooze FG-341-2022-W00860-01

1. LOCATION: Portions of Sections 5, 6, 7 & 8, T1N, R5W, W.M., Tillamook County, Oregon.

2. CRUISE DESIGN:

Pre-cruise evaluation indicated that the stand's average DBH is approximately 17.5 inches, and the coefficient of variation is about 56%. For sales of this size and approximate value, ODF cruise standards require a sampling error of 9% at a 68% confidence level, and a minimum sample size of 100 graded trees. The cruise design chosen for this sale is a variable radius sample plot using a 40 BAF prism.

3. SAMPLING METHOD:

The Timber Sale Area was sampled in July 2021 with 38 variable radius grade plots using a 40 BAF prism. Plots were laid out on a 5 chain x 5 chain grid. Plots falling on or near existing roads or no-harvest areas were offset 1 chain.

4. CRUISE RESULTS:

136 trees were measured and graded producing a cumulative Sampling Error of 6.2% on the Douglas-fir basal area and 5.5% for the Douglas-fir net board foot volume.

5. TREE MEASUREMENT AND GRADING:

All sample trees were measured and graded following Columbia River Log Scale grade rules and favored 40 foot segments.

- a) Height Standards: Total tree heights were measured to the nearest foot. Bole heights were calculated to a top DIB of six inches (or 25% of DBH, whichever is larger) for conifers.
- b) **Diameter Standards:** Diameters were measured outside bark at breast height to the nearest inch.
- c) Form Factors: Measured for each grade tree using a form point of 16 feet.

6. DATA PROCESSING:

- a) **Volumes and Statistics**: Cruise estimates and sampling statistics were derived from Super Ace 2008 cruise software.
- b) Deductions: The following percent volume deductions are by species to account for the hidden defect and breakage. For conifers two percent was deducted. For hardwoods five percent was deducted.
- 7. CRUISERS: The sale was cruised by ODF cruisers Adrian Torres and Mark Savage.

Prepared by:	Adrian Torres	07/28/2021
		Date
Reviewed by:	Mark Savage	08/05/2021
,		Date

TC PS	TATS				OJECT OJECT		STICS TLOOZ			PAGE DATE	1 8/17/2021
TWP	RGE	SC TRACT		ТҮРЕ		AC	RES	PLOTS	TREES	CuFt	BdFt
01N	05	05 00A1		00MC			97.00	38	136	S	W
					TREES		ESTIMATED TOTAL		ERCENT AMPLE		
		PLOTS	TREES		PER PLOT		TREES		TREES		
TOTA	AL	38	136		3.6						
CRU		38	136		3.6		5,183		2.6		
DBH	COUNT										
REFO	OREST										
COU	NT										
BLA	NKS										
100 %	%										
				STA	ND SUMM	ARY					
		SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DOU	IG FIR	132	48.9	22.8	123	29.1	138.9	29,580	29,446	6,383	6,383
R AL		4	4.5	13.1	63	1.2	4.2	266	266	82	
TOT	AL	136	53.4	22.2	118	30.4	143.2	29,846	29,712	6,465	6,465
CI			Γ OF 100 THE	VOLUME			HE SAMPLE E		OE TREES D	EO.	INE DOD
CL	68.1	COEFF	a E a			E TREES -		#	OF TREES R	-	INF. POP.
SD:	1.0 IG FIR	VAR.% 51.4	S.E.% 4.5	L	OW 748	AVG 783	HIGH 819		5	10	15
	DER	74.8	4.3		57	100	143				
TOT		54.2	4.6		728	763	799		117	29	13
CL	68.1	COEFF			SAMPLI	E TREES -	CF	#	OF TREES R	EO.	INF. POP.
SD:	1.0	VAR.%	S.E.%	L	OW	AVG	HIGH		5	10	15
DOU	G FIR	45.3	3.9		160	167	173				
	DED	73.1	41.8		10						
R AL	DLK	73.1	71.0		18	31	43				
R AL		48.0	4.1		18 156	31 163	43 169		92	23	10
CL	68.1	48.0 COEFF	4.1		156 TREES/A	163 ACRE	169	#	OF PLOTS R	EQ.	INF. POP.
CL SD:	68.1 1.0	48.0 COEFF VAR.%	4.1 S.E.%	L	156 TREES /A	163 ACRE AVG	169 HIGH	#		-	INF. POP.
CL SD:	68.1 1.0 UG FIR	48.0 COEFF VAR.% 80.1	4.1 S.E.% 13.0	L	156 TREES/A OW 43	163 ACRE AVG 49	169 HIGH 55	#	OF PLOTS R	EQ.	INF. POP.
CL SD:	68.1 1.0 IG FIR LDER	48.0 COEFF VAR.% 80.1 430.8	S.E.% 13.0 69.8	L	156 TREES/A OW 43 1	163 ACRE AVG 49 4	169 HIGH 55 8	#	OF PLOTS R 5	EQ. 10	INF. POP.
CL SD: DOU R AL TOT	68.1 1.0 IG FIR LDER	48.0 COEFF VAR.% 80.1 430.8 75.9	4.1 S.E.% 13.0	L	156 TREES/A OW 43 1 47	163 ACRE AVG 49 4 53	HIGH 55 8 60		OF PLOTS R 5	EQ. 10	INF. POP. 15
CL SD: DOU R AL TOT	68.1 1.0 IG FIR LDER	48.0 COEFF VAR.% 80.1 430.8	S.E.% 13.0 69.8		156 TREES/A OW 43 1 47	163 ACRE AVG 49 4	HIGH 55 8 60		OF PLOTS R 5	EQ. 10	INF. POP.
CL SD: CL SD:	68.1 1.0 IG FIR LDER CAL 68.1	48.0 COEFF VAR.% 80.1 430.8 75.9 COEFF	S.E.% 13.0 69.8 12.3		156 TREES/A OW 43 1 47 BASAL A	163 ACRE AVG 49 4 53 AREA/AC	HIGH 55 8 60		OF PLOTS R 5 230 OF PLOTS R	EQ. 10 57 EQ.	INF. POP.
CL SD: CL SD:	68.1 1.0 IG FIR DER CAL 68.1 1.0	48.0 COEFF VAR.% 80.1 430.8 75.9 COEFF VAR.%	4.1 S.E.% 13.0 69.8 12.3		156 TREES/A OW 43 1 47 BASAL A OW	163 ACRE AVG 49 4 53 AREA/AC	HIGH 55 8 60 RE HIGH		OF PLOTS R 5 230 OF PLOTS R	EQ. 10 57 EQ.	INF. POP.
CL SD: DOU R ALL TOT: CL SD: DOU	68.1 1.0 IG FIR LDER CAL 68.1 1.0 IG FIR LDER	48.0 COEFF VAR.% 80.1 430.8 75.9 COEFF VAR.% 38.3	S.E.% 13.0 69.8 12.3 S.E.%		156 TREES/A OW 43 1 47 BASAL A OW 130	163 ACRE AVG 49 4 53 AREA/AC AVG 139	HIGH 55 8 60 RE HIGH 148		OF PLOTS R 5 230 OF PLOTS R	EQ. 10 57 EQ.	INF. POP. 26 INF. POP. 15
CL SD: CL SD: DOU R ALL SD: DOU R ALL SD:	68.1 1.0 IG FIR LDER CAL 68.1 1.0 IG FIR LDER	48.0 COEFF VAR.% 80.1 430.8 75.9 COEFF VAR.% 38.3 483.4	S.E.% 13.0 69.8 12.3 S.E.% 6.2 78.3		156 TREES/A OW 43 1 47 BASAL A OW 130 1	163 ACRE AVG 49 4 53 AREA/AC AVG 139 4 143	HIGH 55 8 60 RE HIGH 148 8	#	OF PLOTS R 5 230 OF PLOTS R 5	57 EQ. 10	INF. POP. 20 INF. POP. 1:
CL SD: CL SD: CL SD: CL SD: CL SD: CCL SD: CCL SD:	68.1 1.0 IG FIR DER AL 68.1 1.0 IG FIR DER AL	48.0 COEFF VAR.% 80.1 430.8 75.9 COEFF VAR.% 38.3 483.4 35.4 COEFF VAR.%	S.E.% 13.0 69.8 12.3 S.E.% 6.2 78.3 5.7	L	156 TREES/A OW 43 1 47 BASAL A OW 130 1 135 NET BF/OW	163 ACRE AVG 49 4 53 AREA/AC AVG 139 4 143 ACRE AVG	HIGH 55 8 60 RE HIGH 148 8 151	#	OF PLOTS R 5 230 OF PLOTS R 5	57 EQ. 10	INF. POP. 15 26 INF. POP. 15
CL SD: DOU R AL TOT. CL SD: DOU R AL TOT. CL SD: DOU DOU R AL TOT. CL SD: DOU DOU DOU DOU DOU	68.1 1.0 IG FIR LDER CAL 68.1 1.0 IG FIR LDER CAL 68.1 1.0	48.0 COEFF VAR.% 80.1 430.8 75.9 COEFF VAR.% 38.3 483.4 35.4 COEFF VAR.% 33.9	S.E.% 13.0 69.8 12.3 S.E.% 6.2 78.3 5.7 S.E.% 5.5	L	156 TREES/A OW 43 1 47 BASAL A OW 130 1 135 NET BF/OW 27,829	163 ACRE AVG 49 4 53 AREA/AC AVG 139 4 143 ACRE AVG 29,446	HIGH 55 8 60 RE HIGH 148 8 151 HIGH 31,063	#	OF PLOTS R 5 230 OF PLOTS R 5 50 OF PLOTS R	57 EQ. 10 12 EQ.	INF. POP. 15 26 INF. POP. 15
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CL SD: DOU R AL TOT. CL SD: CCL SD: CC	68.1 1.0 IG FIR LDER CAL 68.1 1.0 IG FIR LDER CAL 68.1 1.0 IG FIR LDER CAL 68.1 1.0 IG FIR LDER CAL	48.0 COEFF VAR.% 80.1 430.8 75.9 COEFF VAR.% 38.3 483.4 35.4 COEFF VAR.% 33.9 616.4 32.0 COEFF	S.E.% 13.0 69.8 12.3 S.E.% 6.2 78.3 5.7 S.E.% 5.5 99.9 5.2	L L	156 TREES/A OW 43 1 47 BASAL A OW 130 1 135 NET BF/A OW 27,829 0 28,173 NET CU	163 ACRE AVG 49 4 53 AREA/AC AVG 139 4 143 ACRE AVG 29,446 266 29,712	HIGH 55 8 60 RE HIGH 148 8 151 HIGH 31,063 532 31,251	#	OF PLOTS R 5 230 OF PLOTS R 5 00 OF PLOTS R 5 41 OF PLOTS R	EQ. 10 57 EQ. 10 12 EQ. 10	INF. POP. 15 26 INF. POP. 15 INF. POP. 15
CL SD: DOU R AL TOT CL SD: DOU R AL TOT DOU R AL TOT DOU R AL TOT CL SD: DOU DOU DOU R DOU	68.1 1.0 IG FIR LDER CAL 68.1 1.0 IG FIR LDER CAL 68.1 1.0 IG FIR LDER CAL 68.1 1.0	48.0 COEFF VAR.% 80.1 430.8 75.9 COEFF VAR.% 38.3 483.4 35.4 COEFF VAR.% 33.9 616.4 32.0 COEFF VAR.%	S.E.% 13.0 69.8 12.3 S.E.% 6.2 78.3 5.7 S.E.% 5.5 99.9 5.2 S.E.%	L L	156 TREES/A OW 43 1 47 BASAL A OW 130 1 135 NET BF/A OW 27,829 0 28,173 NET CU OW	163 ACRE AVG 49 4 53 AREA/AC AVG 139 4 143 ACRE AVG 29,446 266 29,712 FT FT/AC AVG	HIGH 55 8 60 RE HIGH 148 8 151 HIGH 31,063 532 31,251 RE HIGH	#	OF PLOTS R 5 230 OF PLOTS R 5 00 OF PLOTS R 5 41 OF PLOTS R	EQ. 10 57 EQ. 10 12 EQ. 10 10 EQ.	INF. POP. 15 20 INF. POP. 15 INF. POP.

т т	SPCST	GR				Specie	s, Sort (Project	Grade - Boar : DEV	d Foo		umes	з (Тур	oe)					Pag Date Tim	e 8	1 /17/202 5:52:28	
T01N I Twp 01N		' S05 T Rge 05W	00MC Sec 05		Tract 0A1		Type 00M			Plots	i	-	e Trees 136		S	CuFt	T01 Bdl W		R05W S0)5 T00	MC
				%					Per	cent Ne	t Boar	d Foot	Volum	e			A	veraș	ge Log		Loge
	S So			Net 3dFt	Bd. I Def%	Ft. per Acre Gross	Net	Total Net MBF	I 4-5	Log Sca	le Dia 12-16		Log	g Lei 21-30	ngth 31-35	36-99	Ln :		Bd Ft	CF/ Lf	Logs Per /Acre
DF		C	U														4	22		0.00	
DF		2	М	80	.5	23,870	23,741	2,303			42	58				100	40	16	417	2.11	57.
DF		3	М	16	.1	4,806	4,800	466		99	1			1	4	96	39	8	112	0.77	42.
DF		4	М	4		905	905	88		100			22	49	18	11	24	6	31	0.42	29.
DF	Totals	3		99	.5	29,580	29,446	2,856		19	34	47	1	2	1	97	36	11	228	1.37	129.
RA		C	U														10	14		0.00	
RA		C	R	100		266	266	26		100			17		26	57	22	8	44	0.63	6
RA	Total	s		1		266	266	26		100			17		26	57	21	8	41	0.60	6
Type To	otals				.4	29,846	29,712	2,882		20	34	46	1	2	1	96	35	11	219	1.35	135.

TC PSTNDSUM		Stand Table Summary	Page Date:	1 8/17/2021
T01N R05W S05 Ty00MC	97.00	Project DEVILOOZ	Time:	6:52:43AM
		Acres 97.00	Grown Y	ear:

S Spc T	DBH	Sample Trees	FF 16'	Tot Av Ht	Trees/ Acre	BA/ Acre	Logs Acre	Average Net Cu.Ft.	Log Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Tons	Totals Cunits	MBF
DF	8	1	85	53	3.016	1.05	3.02	4.2	20.0	.36	13	60	35	12	6
DF	15	5	88	118	4.289	5.26	8.58	23.5	106.0	5.74	201	909	557	195	88
DF	16	2	89	124	1.508	2.11	3.77	22.8	102.0	2.45	86	384	238	83	37
DF	17	3	86	109	2.003	3.16	4.01	28.7	118.3	3.28	115	474	318	112	46
DF	18	3	85	113	1.787	3.16	3.57	33.5	125.0	3.41	120	447	331	116	43
DF	19	6	88	118	3.208	6.32	8.02	32.0	129.3	7.32	257	1,037	710	249	101
DF	20	4	87	105	1.930	4.21	4.34	36.2	145.6	4.48	157	632	435	153	61
DF	21	5	89	127	2.188	5.26	6.56	35.9	164.0	6.71	235	1,077	651	228	104
DF	22	8	87	125	3.190	8.42	9.57	38.5	172.1	10.51	369	1,647	1,019	358	160
DF	23	7	88	131	2.554	7.37	7.66	44.6	200.5	9.74	342	1,536	944	331	149
DF	24	19	88	132	6.366	20.00	19.10	48.6	216.7	26.47	929	4,138	2,568	901	401
DF	25	10	88	134	3.088	10.53	9.26	54.4	251.7	14.37	504	2,331	1,394	489	226
DF	26	17	88	138	4.853	17.89	14.56	60.1	278.6	24.93	875	4,057	2,419	849	394
DF	27	5	89	139	1.324	5.26	3.97	64.5	303.3	7.30	256	1,205	708	248	117
DF	28	6	89	138	1.477	6.32	4.43	70.3	344.4	8.87	311	1,526	861	302	148
DF	29	9	89	140	2.065	9.47	6.20	76.9	383.0	13.58	476	2,373	1,317	462	230
DF	30	6	87	136	1.287	6.32	3.86	78.4	377.2	8.63	303	1,456	837	294	141
DF	31	4	88	135	.803	4.21	2.41	83.0	403.3	5.70	200	972	553	194	94
DF	32	3	86	148	.565	3.16	1.70	93.3	452.2	4.51	158	767	437	153	74
DF	33	4	88	142	.709	4.21	2.13	99.1	492.5	6.01	211	1,047	583	204	102
DF	35	2	88	148	.315	2.11	.95	115.2	590.0	3.10	109	558	301	106	54
DF	37	1	84	158	.141	1.05	.42	125.9	643.3	1.52	53	272	147	52	26
DF	38	2	86	142	.267	2.11	.80	128.2	673.3	2.93	103	540	284	100	52
DF	Totals	132	88	123	48.934	138.95	128.89	49.5	228.5	181.91	6,383	29,446	17,645	6,191	2,856
RA	9	1	77	41	2.383	1.05	2.38								
RA	14	1	73	89	.985	1.05	1.97	15.1	50.0	.82	30	98	79	29	10
RA	18	1	73	74	.596	1.05	.60	52.5	120.0	.86	31	71	83	30	7
RA	19	1	73	99	.535	1.05	1.07	19.8	90.0	.58	21	96	56	21	9
RA	Totals	4	75	63	4.498	4.21	6.02	13.6	44.2	2.26	82	266	219	80	26
Totals		136	87	118	53.431	143.16	134.90	47.9	220.2	184.16	6,465	29,712	17,864	6,271	2,882

Time

6:52:22AM

s	So Gr	Log	Gross	Def Net	%		ľ	Vet Volu	me by S	caling l	Diamete	r in Inche	es	_			
Spp Т	1	Len	MBF	% MBF	Spc	2-3	4-5	6-7	8-9	10-11		14-15	16-19	20-23	24-29	30-39	40+
OF	2M	40	2,315	2,303	80.6						375	374	968	484	102		
OF	3M	29	3	3	.1			2	1								
DF	3M	31	2	2	.1			1	1								
DF	3M	32	4	4	.1			3	1								
DF	3M	33	3	3	.1			3									
DF	3M	34	1	1	.0				1								
OF	3M	35	7	7	.2			7									
DF	3M	36	11	11	.4			11									
DF	3M	37	10	10	.3			10									
DF	3M	38	5	5	.2			5									
DF	3M	39	5	5	.2			5									
DF	3M	40	416	415	14.5			56	68	284			7				
DF	4M	12	1	1	.0			1									
DF	4M	13	3	3	.1			3									
OF	4M	14	1	1	.0			1									
OF	4M	16	2	2	.1			2									
OF	4M	18	9	9	.3			9									
DF	4M	19	2	2	.1			2									
DF	4M	20	1	1	.1			1									
DF	4M	21	5	5	.2			5									
DF	4M	22	3	3	.1			3									
DF	4M	23	1	1	.0			1									
DF	4M	24	5	5	.2			5									
DF	4M	25		3	.1			3									
DF	4M			10				10	1								
OF	4M			6	.2			6									
DF	4M			3				3									
DF	4M			6				6									
DF	4M			6				6									
DF	4M			3	.1			3									
DF	4M			3	.1			3									
DF	4M			3	.1			3									
DF	4M			5	.2			5									
DF	4M			5	.2			5									
DF	Totals		2,869	2,856				189	73	284	375	374	975	484	102		
RA	CR			3				3									
RA	CR	. 18	2	2	6.0			2									

TC	Log Stock Table - MBF																	
T01	T01N R05W S05 Ty00MC 97.00 S S0 Gr Log Gross Def						Proje Acres		DEV	ILOO2	Z 7.00				Page Date Time		2 7/2021 52:22A	M
	S	So Gr	Log	Gross	Def	Net	%		ľ	let Volu	ıme by S	caling Diame	ter in Inch	es				
Spp	T	rt de	Len	MBF	%	MBF	Spc	2-3	4-5	6-7	8-9	10-11 12-13	14-15	16-19	20-23	24-29	30-39	40+
RA		CI	R 32	,	7	7	25.9				7							
RA		CI	R 40	1:	5	15	57.0				7	8						
RA		Total	s	20	5	26	.9			4	14	8						
Total		All Speci	es	2,895	5	2,882	100.0			193	87	292 37	5 374	975	484	102		

Volume Summary

(Shown in MBF)

Devilooze

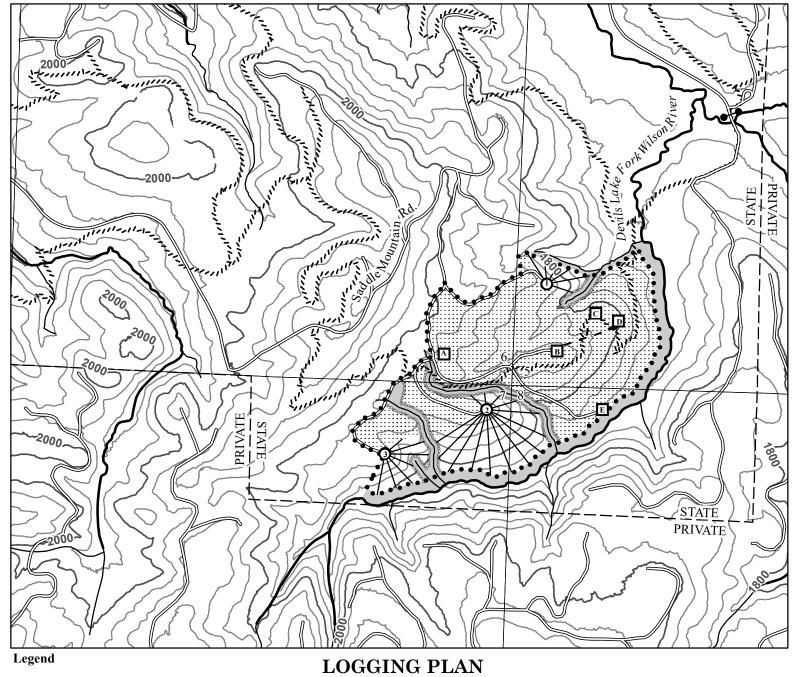
FG-341-2022-W00860-01 August 2021

UNIT 1: MC (97 ACRES)

SPECIES		2 SAW	3 SAW	4 SAW	CR	TOTAL
	Cruise Volume	2,303	466	88	0	2,857
Douglas-fir	Hidden D&B (2%)	(46)	(9)	(2)	(0)	(57)
Douglas-III	NET TOTAL	2,257	457	86	0	2,800
	% of Total	81	16	3	0	
	Cruise Volume	0	0	0	26	26
Red alder	Hidden D&B (5%)	(0)	(0)	(0)	(1)	(1)
Neu aluei	NET TOTAL	0	0	0	25	25
	% of Total	0	0	0	100	

SALE TOTAL

SPECIES	2 SAW	3 SAW	4 SAW	CR	TOTAL
Douglas-fir	2,257	457	86	0	2,800
Red alder	0	0	0	25	25
Total	2,257	457	86	25	2,825



- • • Timber Sale Boundary
- ODF Ownership Boundary
- Stream Buffer Boundary
- Surfaced Road
- New Construction Road
- Recreational Trail
- Type-F Stream
- Type-N Stream
- Stream Buffer
- Cable Yarding Area
 - Tractor Yarding Area
- O Cable Landing
- Tractor Landing
- Gate
- Section Line
- —— 40 Foot Contour Band
 - 200 Foot Contour Band

FOR TIMBER SALE CONTRACT #FG-341-2022-W00860-01 DEVILOOZE
PORTIONS OF SECTIONS 5, 6, 7 & 8, T1N, R5W, W.M.,
TILLAMOOK COUNTY, OREGON

Forest Grove District GIS August, 2021

This product is for informational use and may not be suitable for legal, engineering, or surveying purposes.

onal use and may not be g, or surveying purposes.

1:12,000

1 inch = 1,000 feet

TRACTOR CABLE

TOTAL 72 25

APPROXIMATE NET ACRES

0 500 1,000 2,000 Fee