



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Eleven Creek No. 3
Sale 341-15-42

District: Coos

Date: November 04, 2014

cost summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$214,327.35	\$6,866.81	\$221,194.16
		Project Work:	\$(17,360.00)
		Advertised Value:	\$203,834.16



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timber description

Location: Portions of Section 11, T24S, R11W, W.M., Coos County, Oregon.

Stand Stocking: 20%

SpecieName	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	17	0	95
Western Hemlock / Fir	18	0	95
Alder (Red)	14	0	90

Volume by Grade	10" - 11"	12"+	2S	3S	4S	5" - 7"	8" - 9"	Total
Douglas - Fir	0	0	342	208	41	0	0	591
Western Hemlock / Fir	0	0	64	41	6	0	0	111
Alder (Red)	2	15	0	0	0	13	1	31
Total	2	15	406	249	47	13	1	733



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comments: Pond Values Used: Local Pond Values for Douglas-fir. 3rd Quarter
Calendar Year 2014 for all other species.

Regeneration harvest 41 net acres of 3rd growth timber. Timber is
predominately 50 - 62 year old Douglas-fir with a minor amount of
western hemlock and red alder.

Western redcedar and Other Cedars Stumpage Price = Pond Value
minus Logging Cost:
 $\$650.96/\text{MBF} = \$960/\text{MBF} - \$309.04/\text{MBF}$

SCALING COST ALLOWANCE = \$5.00/MBF

FUEL COST ALLOWANCE = \$4.00/Gallon

HAULING COST ALLOWANCE
Hauling costs equivalent to \$780 daily truck cost.

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

FELLING:

Felling of Unmerchantable Material: 1 acre x \$80/acre = \$80

Directional Felling: 20 trees x \$2/tree = \$40

YARDING & LOADING:

Ground Based Equipment Wash: 6 Hours x \$65/hour = \$390

Artificial guyline support 1 x \$500 = \$500

Rig Lift/Tail trees: 5 lift trees x \$125/lift tree = \$625

Brand & Paint Logs: 733 MBF x \$1/MBF = \$733

Loader Time for Firewood Stacking & Slash Piling: 5 Hours x
\$75/hour = \$375

Cover Landing & Slash Piles w/Sheeting: 4 piles x \$50/pile = \$200

TOTAL Other Costs (with Profit & Risk to be added) = \$2,943

Other Costs (No Profit & Risk added):

None.



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logging conditions

combination#: 1 Douglas - Fir 91.00%
Western Hemlock / Fir 91.00%
Alder (Red) 91.00%

yarding distance: Medium (800 ft) **downhill yarding:** No
logging system: Cable: Medium Tower >40 - <70 **Process:** Stroke Delimber
tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF
loads / day: 6.0 **bd. ft / load:** 3,600
cost / mbf: \$154.82

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

combination#: 2 Douglas - Fir 9.00%
Western Hemlock / Fir 9.00%
Alder (Red) 9.00%

yarding distance: Short (400 ft) **downhill yarding:** No
logging system: Shovel **Process:** Stroke Delimber
tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF
loads / day: 6.0 **bd. ft / load:** 3,600
cost / mbf: \$66.59

machines: Stroke Delimber (B)



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logging costs

Operating Seasons:	1.00	Profit Risk:	20.00%
Project Costs:	\$17,360.00	Other Costs (P/R):	\$2,943.00
Slash Disposal:	\$0.00	Other Costs:	\$0.00

Miles of Road

Road Maintenance: \$0.00

Dirt	Rock (Contractor)	Rock (State)	Paved
1.0	1.0	0.0	0.0

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	2.0	3.6
Western Hemlock / Fir	\$0.00	2.0	3.6
Alder (Red)	\$0.00	2.0	3.2

Local Pond Values

Date	Specie	Grade	Value
11/4/14	Douglas - Fir	2S	\$640.00
11/4/14	Douglas - Fir	3S	\$620.00
11/4/14	Douglas - Fir	4S	\$605.00



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District: Coos

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logging costs breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Scaling	Other	Total
Douglas - Fir									
\$146.88	\$1.70	\$5.98	\$94.79	\$4.02	\$50.67	\$0.00	\$5.00	\$0.00	\$309.04
Western Hemlock / Fir									
\$146.88	\$1.70	\$5.98	\$94.79	\$4.02	\$50.67	\$0.00	\$5.00	\$0.00	\$309.04
Alder (Red)									
\$146.88	\$1.78	\$5.98	\$111.72	\$4.02	\$54.08	\$0.00	\$5.00	\$0.00	\$329.46

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$630.53	\$321.49	\$0.00
Western Hemlock / Fir	\$0.00	\$528.20	\$219.16	\$0.00
Alder (Red)	\$0.00	\$550.97	\$221.51	\$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	591	\$321.49	\$190,000.59
Western Hemlock / Fir	111	\$219.16	\$24,326.76
Alder (Red)	31	\$221.51	\$6,866.81

Gross Timber Sale Value

Recovery: \$221,194.16

Prepared by: Greg Erb

Phone: 541-267-1756

Summary of "Other Costs" for Timber Sale Appraisals

Sale Name: Eleven Creek No. 3

Additional "Other Cost" with additional profit and risk to be added:

	<u>Units</u>	<u>Quantity</u>	<u>Cost/unit</u>	<u>Total Cost</u>
Felling				
Felling of unmerch material	acre	1	\$ 80.00	\$ 80.00
Directional Felling	MBF	20	\$ 2.00	\$ 40.00
Yarding and Loading				
Ground Based Equipment Wash	Hours	6	\$ 65.00	\$ 390.00
Artificial guyline support (Dozer/Skidder)	anchor	1	\$ 500.00	\$ 500.00
Rig Lift/Tail Trees	lift tree	5	\$ 125.00	\$ 625.00
Brand and paint logs	MBF	733	\$ 1.00	\$ 733.00
Loader time for slash piling	Hours	5	\$ 75.00	\$ 375.00
Cover landing slash pile w/sheeting	pile	4	\$ 50.00	\$ 200.00

Total additional "Other Cost" with additional profit and risk to be added

\$ 2,943.00

Additional "Other Cost" with no additional profit and Risk

	<u>Units</u>	<u>Quantity</u>	<u>Cost/unit</u>	<u>Total Cost</u>
Total additional "Other Cost" with no additional profit and Risk				\$ -

**SUMMARY OF CONSTRUCTION COST
Eleven Creek No. 3**

Project 1A: Road and Landing Construction

Points: B to C Length: 500' Type: 14' no ditch

Excavator	<u>30</u>	hrs at	<u>\$140.00</u>	per hour	<u>\$4,200.00</u>
Cat time	<u>30</u>	hrs at	<u>\$140.00</u>	per hour	<u>\$4,200.00</u>
Dump Truck - haul boulders to Pts F and G	<u>20</u>	hrs at	<u>\$100.00</u>	per hour	<u>\$2,000.00</u>
Grader	<u>2</u>	hrs at	<u>\$85.00</u>	per hour	<u>\$170.00</u>
Laborer	<u>30</u>	hrs at	<u>\$38.00</u>	per hour	<u>\$1,140.00</u>

Total Project 1A: \$11,710.00

Project 1B: Road and Landing Construction

Points: D to E Length: 200' Type: 14' no ditch

Excavator	<u>5</u>	hrs at	<u>\$140.00</u>	per hour	<u>\$700.00</u>
Cat time	<u>5</u>	hrs at	<u>\$140.00</u>	per hour	<u>\$700.00</u>
Grader time - blade road	<u>1</u>	hrs at	<u>\$85.00</u>	per hour	<u>\$85.00</u>
Laborer	<u>5</u>	hrs at	<u>\$38.00</u>	per hour	<u>\$190.00</u>

Total Project 1B: \$1,675.00

Move-in (includes extra time for walking equipment in from 1000 rd junction)

Equipment	Miles	hrs/RT	Lowboy Rate/hr	Total
Excavator	35	7	\$125.00	\$875.00
Cat	35	7	\$125.00	\$875.00
Dump Truck	35	5	\$125.00	\$625.00
Grader	35	5	\$125.00	\$625.00

Total Move-in: \$3,000.00

Project 1 Total \$16,385.00

Project 2: Road Improvement

Points: A to B Length: 6000' Type: 14' w/ditch

Excavator - cleanup, brushing, clear culverts	<u>3</u>	hrs at	<u>\$140.00</u>	per hour	<u>\$420.00</u>
Dump Truck - haul material to marked areas	<u>3</u>	hrs at	<u>\$100.00</u>	per hour	<u>\$300.00</u>
Grader time - clean ditches, blade road	<u>3</u>	hrs at	<u>\$85.00</u>	per hour	<u>\$255.00</u>

Project 2 Total \$975.00

Total Project Costs \$17,360.00

TIMBER SALE SUMMARY

Eleven Creek No. 3

1. Type of Sale: Final Harvest, Recovery, Sealed Bid.

2. Boundary Lines: The timber sale boundary is marked on the ground with "Timber Sale Boundary" posters, red flagging, and red paint at locations shown on Exhibit "A."

3. Revenue Distribution: 100% CSL, 100% Coos County.

4. Sale Acreage: The sale is comprised of two units totaling approximately 41 net acres. Sale acreage was determined from electronic digitizing using the Arc Map 10.2 GIS program and 2008 LIDAR (Light Detection and Ranging) layers. Existing roads, landings, and non-stocked areas were removed from the cruised acreage.

Sale Areas	Posted Acres	Interior Roads/Landings/Non-stocked Acres	Net Cruise Acres	Net Harvest Acres
1 & 2	49.1	7.5	41	Area 1: 34 acres Area 2: 7 acres

5. Volume by Species:

Species	Total Volume (MBF)	Volume (MBF) per Acre
Douglas-fir	591	14.4
Western hemlock	111	2.7
Red alder	31	.8
Total	733	17.9

6. Grade: (by Percent, all areas)

Species	3 Peeler %	Spec. Mill %	2 Saw %	3 Saw %	Big 3 Saw %	4 Saw %
Douglas-fir			58	35		7
Western hemlock			58	36		6
			12"+	10-11"	8-9"	6-7"
Red alder			48	6	4	42

7. Grading System: All trees were graded according to the Southern Oregon Log Scaling and Grading Rules. Trees were graded to maximize grade (i.e. 20 foot 2 Saw), where possible. Timber sale volume was calculated by converting all logs to 40 foot lengths.

8. Cruise: The timber sale area was cruised using a variable plot cruise with a nested Big Basal Area Factor (BAF) plot. The Big BAF method is a combination of count plots and individually measured trees. 20 BAF full plots at BH were used to determine tree counts and to measure minor species. The 20 BAF plots were spaced 100 feet apart on cruise lines spaced 300 feet apart. A total of 50 count plots were measured. 160 BAF full plots at BH were used to determine which Douglas-fir trees would be fully measured. A total of 37 Douglas-fir

trees were measured for DBH, height, grade and defect. Cruising was completed in October 2013 by ODF foresters.

A. Summary data:

Diam	Ht. Stand	Form Pt.	Form Factor	CV %	SE %
DBH	Total Height	Conifer: 4.5' Hardwood: 4.5'	Recorded for all cruised trees by estimate and measure	58.8	8.3

B. Stand Data:

SPECIES	DBH	TREES/ACRE	BASAL AREA/AC	NET MBF/ACRE
Douglas-fir	17	78	121	14.4
Western Hemlock	18	13	22	2.7
Red Alder	14	10	11	.8

C. Green Tree Retention: Reserve trees are within stream buffers as mapped on the Exhibit "A."

9. Timber Description: Timber in the sale area is 50 to 62 year-old Douglas-fir with minor amounts of western hemlock and red alder. The average cruised Douglas-fir is 17 inches with a total height of 100 feet.

10. Topography: The sale area ranges from 0 to 100 percent slope on primarily south and north facing slopes. Eleven Creek, a Type F stream, flows east to west between Areas 1 and 2. Locations of stream buffers and green tree retention areas are indicated on Exhibit "A."

11. Logging Method: Approximately 91 percent of the sale area is designed to be uphill cable logged and 9 percent is designed for ground based yarded. Cable yarding distances range from 500 to 1,700 feet. Ground based yarding distances are generally less than 400 feet. Existing roads will support ground based activities. Final determination of landing locations and logging method must give priority to protection of stream buffers, green tree retention areas, and Logging Restricted Areas. Full suspension will be required when yarding over drainages and stream buffers, and single end suspension will be required over the remainder of the sale areas. This timber sale is intended for dry season operation.

Both sale areas are immediately adjacent to a Logging Restricted Area identified on Exhibit A. In addition there is a Logging Restricted Area to the west of Area 1 and a Marbled Murrelet Management Area (MMMA) north of Area 1. The Logging Restricted Areas and MMMA – Occupied Habitat are off limits for establishing tailholds or guy anchors in, and for stringing cables through or above. In unit lift trees may be necessary to achieve the required deflection while avoiding the Logging Restricted Areas. Lift tree cost has been included in the appraisal.

12. Access: From Coos Bay take Coos River Highway approximately 15 miles to Marlow Creek (1000) Road. Travel approximately 8 miles up the 1000 Road to Project Point A, at the junction of the 1000 and 1400 Roads.

13. Projects:

Project 1: Landing Construction

Project 2: Road and Landing Improvement

CRUISE VOLUME COMPUTATION REPORT

SALE NAME: Eleven Creek No. 3
 LEGAL LOCATION: T24S, R11W Sec. 11

DATE: 09/30/2014
 BY: Greg Erb

GROSS VOLUME MBF

SPECIES>> AREA	Doug-fir	Hemlock	Red Cedar	Red Alder	Maple	TOTAL
1,2	680	127	0	36	0	843
Less GTR Vol.	0	0	0	0	0	0
Less DWD Vol.	8	1	0	1	0	10
TOTAL	672	126	0	35	0	833

DEFECT AND BREAKAGE

Species	Doug-fir	Hemlock	Red Cedar	Red Alder	Maple
Hidden cull	0.05	0.05	0.00	0.04	0.04
Field cull	0.03	0.03	0.00	0.03	0.03
Breakage	0.04	0.04	0.00	0.04	0.03
Total	0.12	0.12	0.00	0.11	0.10

NET VOLUME BY MBF

SPECIES AREA	Doug-fir	Hemlock	Red Cedar	Red Alder	Maple	TOTALS
1,2	591	111	0	31	0	733
TOTALS	591	111	0	31	0	733

NET VOLUME BY GRADE AND MBF *

Grade >>>>>>>>>>	2 PEE	3 PEE	SM	2SAW(12"+)	3SAW(12"+)	3SAW(10-11")	4SAW(8-9")	(5-7")
Species					(RA)	(RA)	(RA)	(RA)
Doug-Fir	0	0	0	342	0	208	41	0
Hemlock	0	0	0	64	0	41	6	0
Red Alder	0	0	0	0	15	2	1	13


GRADE DISTRIBUTION BY PERCENT

Grade >>>>>>>>>>	2 PEE	3 PEE	SM	2SAW(12"+)	3SAW(12"+)	3SAW(10-11")	4SAW(8-9")	(5-7")
Doug-fir	0%	0%	0%	58%	0%	35%	7%	0%
Hemlock	0%	0%	0%	58%	0%	36%	6%	0%
Red Alder	0%	0%	0%	0%	48%	6%	4%	42%

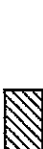
**Operating Periods Restrictions Matrix for
Eleven Creek No. 3
341-15-42**

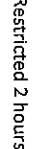
	January	February	March	April	May	June	July	August	September	October	November	December
Harvesting												
Ground-based Yarding			1st	1st	15th	16th	7th	8th	5th	6th	15th	16th
Cable Yarding on Unsurfaced Roads												
Cable Yarding and Loading in MIMMA* Buffer (includes guywires and tailholds)												
Logging Activity in Logging Restricted Areas and MIMMA* Occupied Habitat (includes guywires and tailholds)												
Hauling												
Log Hauling on Unsurfaced Roads			1st	1st	15th	16th			5th	6th	15th	16th
Marlow Creek (1000) Rd (mile 0.0 to 5.0)												

	January	February	March	April	May	June	July	August	September	October	November	December
Project Work												
Projects 1 & 2			1st	1st	15th	16th			5th	6th	15th	16th
Non-project Roads and Landings												
Non-project Roads and Landings in MIMMA* Buffer												

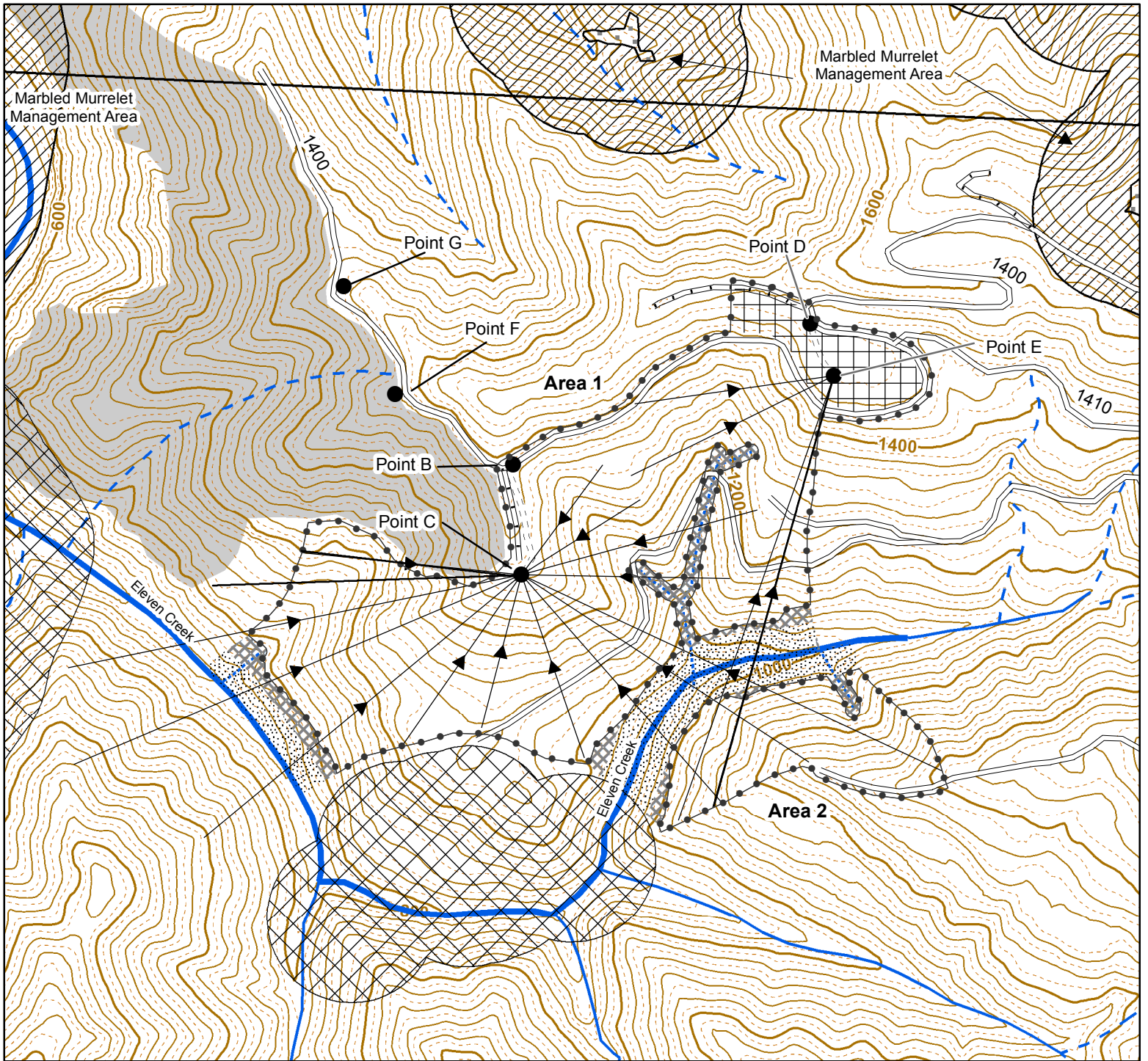
 Operations Allowed

 Activity Restricted 2 hours before sunset through 2 hours after sunrise

 Operations Prohibited - T & E

 Operations Prohibited for weather conditions: unless otherwise approved in writing by STATE

Operating Matrix represents the seasonal restrictions contained within the body of the timber sale contract. See Section 2455 for further information on seasonal restrictions.
* MIMMA means Marbled Murrelet Management Area.



- Timber Sale Boundary
- Cable Yarding
- Ground Yarding
- Project Point
- Logging Restricted Area
- Roads**
- STATE Maintained
- PURCHASER Maintained
- New Road Construction
- Reforestation Area

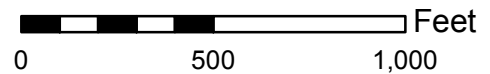
- Streams**
- Type F
- Type N Perennial
- Type N Seasonal
- Unclassified
- Stream Buffers
- Green Tree Retention Area
- Marbled Murrelet Management Area**
- Occupied Habitat
- Buffer

SALE AREA	NET ACRES
1	34
2	7
TOTAL	41

Logging Plan
Sale No. 341-15-42
Eleven Creek No. 3
 Portions of Sections 11
 T24S, R11W, W.M.
 Coos County, Oregon
 Regulated Use Area CS-2
 100% CSL



20 foot contour interval
 1 inch = 500 feet



The information shown on this map is approximate locations. Exact locations of features represented by map symbols will be determined on site and shall depend upon the conditions that exist on site. Activities shall be conducted based upon features determined on site rather than features shown on maps.