



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Green Basin Split
Sale NC-341-2025-W01104-01

District: N Cascade

Date: April 04, 2024

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$3,146,766.30	\$0.00	\$3,146,766.30
		Project Work:	(\$145,712.91)
		Advertised Value:	\$3,001,053.39



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District: N Cascade

Date: April 04, 2024

Timber Description

Location:

Stand Stocking: 40%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	17	0	98
Western Hemlock / Fir	9	0	98

Volume by Grade	2S	3S & 4S 6"-11"	Total
Douglas - Fir	3,616	3,048	6,664
Western Hemlock / Fir	19	67	86
Total	3,635	3,115	6,750

Comments: Pond Values Used: Local Pond Values, February, 2024.

Hardwood Stumpage Price = Pond Value minus Logging Cost: $\$57.36/\text{MBF} = \$350/\text{MBF} - \$292.64/\text{MBF}$

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost:
 $\$817.36 / \text{MBF} = \$1260/\text{MBF} - \$292.64/\text{MBF} - \$150/\text{MBF}$ Additional haul

Pulp Price: $\$20/\text{MBF} = \$2/\text{ton} \times 10 \text{ ton}/\text{MBF}$

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

Season 1 Equipment Move-In: Accounted for in Logging Cost

Season 2 Equipment Move-In: $((\$250/\text{hr loaded transport}) + (\$25/\text{hr} \times 2 \text{ pilots per piece of equipment})) \times 4$
hour Move-In Cycle = $\$1200 \times 4 \text{ pieces of equipment} = \$4,800$

Equipment Weed Wash: $((\$50/\text{hr labor cost}) \times 6 \text{ hour wash time}) = \$300 \times 4 \text{ pieces of equipment} = \$1,200 \times 2 \text{ Seasons} = \$2,400$

Intermediate support tree: $4 @ \$125 = \500

Waterbarring and Tank Trapping Dirt Spurs: $11.7 \text{ stations} @ \$16.95/\text{sta} = \$198$

TOTAL Other Costs (with Profit & Risk to be added) = $\$7,898$

Other Costs (No Profit & Risk added):

none

SLASH DISPOSAL COSTS

In-Unit Piling: $\$300/\text{ac} \times 167 \text{ acres} = \$50,100$

Move-In: $((\$250/\text{hr loaded transport}) + (\$25/\text{hr} \times 2 \text{ pilots})) \times 4 \text{ hour Move-In Cycle} = \1200

Equipment Weed Wash: $((\$50/\text{hr labor cost}) \times 6 \text{ hour wash time}) = \300

Covering Piles: $(\$8.00/\text{pile} \times 501 \text{ piles}) + (\$50/\text{hr} \times 2 \text{ covering personnel} \times 42 \text{ hours}) = \$8,208$

TOTAL Slash Disposal Costs = $\$59,808$

ROAD MAINTENANCE COSTS

Grader Move-In: $\$1,050$

Roller Move-In: $\$1,050$

General Road Maintenance: $9.3 \text{ miles} \times \$2,100/\text{mile} + (\text{move in } \$2,100) = \$21,630$

TOTAL Road Maintenance Costs = $\$21,630 / 6,750 \text{MBF} = \$3.20/\text{MBF}$



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Date: April 04, 2024

Logging Conditions

Combination#: 1 Douglas - Fir 23.07%
 Western Hemlock / Fir 27.93%

Logging System: Track Skidder **Process:** Feller Buncher
yarding distance: Medium (800 ft) **downhill yarding:** No
tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF
loads / day: 11 **bd. ft / load:** 4800
cost / mbf: \$189.40
machines: Log Loader (B)
 Stroke Delimber (B)
 Feller Buncher w/ Delimber
 Track Skidder

Combination#: 2 Douglas - Fir 11.50%
 Western Hemlock / Fir 10.79%

Logging System: Cable: Medium Tower >40 - <70 **Process:** Manual Falling/Delimbing
yarding distance: Short (400 ft) **downhill yarding:** No
tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF
loads / day: 7 **bd. ft / load:** 4800
cost / mbf: \$237.44
machines: Log Loader (A)
 Tower Yarder (Medium)

Combination#: 3 Douglas - Fir 65.43%
 Western Hemlock / Fir 61.28%

Logging System: Track Skidder **Process:** Feller Buncher
yarding distance: Short (400 ft) **downhill yarding:** No
tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF
loads / day: 15 **bd. ft / load:** 4800
cost / mbf: \$138.89
machines: Log Loader (B)
 Stroke Delimber (B)
 Feller Buncher w/ Delimber
 Track Skidder



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District: N Cascade

Date: April 04, 2024

Logging Costs

Operating Seasons: 2.00	Profit Risk: 10%
Project Costs: \$145,712.91	Other Costs (P/R): \$7,898.00
Slash Disposal: \$59,808.00	Other Costs: \$0.00

Miles of Road

Road Maintenance: \$3.20

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	3.0	4.8
Western Hemlock / Fir	\$0.00	2.0	4.2



Timber Sale Appraisal
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Date: April 04, 2024

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
\$161.88	\$3.26	\$1.30	\$88.55	\$1.17	\$25.62	\$8.86	\$2.00	\$0.00	\$292.64
Western Hemlock / Fir									
\$163.63	\$3.26	\$1.30	\$151.79	\$1.17	\$32.12	\$8.86	\$2.00	\$0.00	\$364.13

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$762.56	\$469.92	\$0.00
Western Hemlock / Fir	\$0.00	\$541.10	\$176.97	\$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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	6,664	\$469.92	\$3,131,546.88
Western Hemlock / Fir	86	\$176.97	\$15,219.42

Gross Timber Sale Value

Recovery: \$3,146,766.30

Prepared By: Zane Sandborg

Phone: 503-781-7754

GREEN BASIN SPLIT

Project No. 1

NEW CONSTRUCT:

Segments	Length	Rocking				Construct \$
		Pit Run	6" -0" Jaw Run	1.5"- 0"	Dissipators	
A to A1	22+30		1,148 cy	447 cy	6 cy	\$ 41,838.23
B to B1	2+67					\$ 1,985.00
C to C1	6+88					\$ 4,090.00
Landing G	0+60		40 cy			\$ 1,740.43
Landing H	0+40		30 cy			\$ 1,277.20
Landing I	0+60		40 cy			\$ 1,569.60
Landing J	0+60		40 cy			\$ 1,569.60
K to K1	2+12		24 cy			\$ 2,021.76
Totals	36+17		1,322 cy	447 cy	6 cy	\$ 56,091.82

MOVE-IN:

\$ 8,490.00

Total miles 0.69

Project No. 1

\$ 64,581.82

Project No. 2

ROAD IMPROVEMENT:

Segments	Length/sites	Rocking			Construct \$
		Pit Run	6" -0" Jaw Run	1.5"- 0"	
D to D1	4+80		24 cy		\$ 1,709.76
E to C	64+30		48 cy	215 cy	\$ 6,311.17
E1 to B	6+40		210 cy	96 cy	\$ 7,979.59
F to F1	19+98		24 cy		\$ 836.46
Total	95+48		306 cy	311 cy	\$ 16,836.98

Total miles 1.81

Project No. 2

\$ 16,836.98

Project No. 3

STOCKPILE ROCK:

Location	Size	Cubic Yards	Crush	Put in Pile	Combined	Total
N30 Pit	1.5"- 0"	3,242 cy	\$ 12.13	\$ 2.50	\$ 14.63	\$ 47,434.51
N30 Pit	6" -0" Jaw Run	1,372 cy	\$ 9.79	\$ 2.50	\$ 12.29	\$ 16,859.59
Total miles		0.26	Project No. 3			
			\$ 64,294.11			

ROCK SUMMARY TABLE:

Rock Totals				
Location	Size of Rock	Needed for Roads	Stockpile	To Crushed
N30 Pit	1 .5"-0"	758 cy	3,242 cy	4,000 cy
N30 Pit	6" -0"	1,628 cy	1,372 cy	3,000 cy
On site or N30 Pit	Pit Run	6 cy	none	none
			Total	7,000 cy

Note: The rock costing includes the crushing, hauling and placement for each road segment.

GRAND TOTAL	\$ 145,712.91
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PROJECT NO. 1
NEW CONSTRUCTION

Sale: Green Basin Split

Road Segment: A to A1

NEW CONSTRUCTION:

	Station	Designed Cubic Yards/Station				Cost per	
	Quantity	Pit Run	1.5"- 0"	6" -0" Jaw Run	Dissipator	Station or Acre	Sum \$
New construct & Brushing	22+30		17 cy	48 cy		\$ 280.00	\$ 6,244.00
Landing A1	1			30 cy		\$ 500.00	\$ 500.00
Truck Turnaround	2		10 cy	24 cy		\$ 150.00	\$ 300.00
Culverts	2		24 cy		3 cy		

SUB TOTAL \$ 7,044.00

CULVERTS:

Description	Type	Size	Total Length	Cost	Bevel	Bands	Cost	Sub Total	Install \$	Sum \$
2 - 24" 30' culverts	ACSP	24	60	\$ 1,800.00	\$ -	0	\$ -	\$ 1,800.00	\$ 1,800.00	\$ 3,600.00

ACSP = aluminum corrugated steel pipe

Mulch - 2.5 tons/acre
Grass Seed (25 lb bag)
Install 6' long steel "T" posts
Install outlet dissipator

Quantity	Cost	Sub Total	Labor Cost/Hr	Labor Time	Sum \$
2	\$ 21.00	\$ 42.00	\$ 40.00	1	\$ 82.00
2	\$ 41.00	\$ 82.00	\$ 40.00	0.5	\$ 102.00
2	\$ 6.00	\$ 12.00	\$ 40.00	0.5	\$ 32.00
2	\$ 150.00	\$ 300.00	\$ 150.00	0.5	\$ 150.00

SUB TOTAL \$ 3,966.00

SURFACING:

Roads	Landings	Roads	Turn Arouds	Two-way Junctions	Culvert Bedding	Landing Tailtrack	Dissipator (cy/pipe)	Total	Haul & Crush Combined \$	Cost
1.5"- 0"		379 cy	20 cy		48 cy			447.000 cy	\$ 19.41	\$ 8,676.27
6" -0" Jaw Run	30 cy	1,070 cy	48 cy					1,148 cy	\$ 19.24	\$ 22,087.52
Pit Run							6 cy	6 cy	\$ 10.74	\$ 64.44

Total = 1,601 cy

SUB TOTAL \$ 30,828.23

GRAND TOTAL = \$ 41,838.23

PROJECT NO. 1
NEW CONSTRUCTION

Sale: Green Basin Split

Road Segment: B to B1

NEW CONSTRUCTION:

	Station	Designed Cubic Yards/Station				Cost per	
	Quantity	Pit Run	1.5"- 0"	6" -0" Jaw Run	Dissipator	Station or Acre	Sum \$
New construct	2+67					\$ 500.00	\$ 1,335.00
Landing B1	1					\$ 500.00	\$ 500.00
Truck Turnaround	1					\$ 150.00	\$ 150.00

SUB TOTAL \$ 1,985.00

CULVERTS:

Description	Type	Size	Total Length	Cost	Bevel	Bands	Cost	Sub Total	Install \$	Sum \$
	ACSP	0	0	\$ -	\$ -	0	\$ -	\$ -	\$ -	\$ -

ACSP = aluminum corrugated steel pipe

Mulch - 2.5 tons/acre
Grass Seed (25 lb bag)
Install 6' long steel "T" posts
Install outlet dissipator

Quantity	Cost	Sub Total	Labor Cost/Hr	Labor Time	Sum \$
0	\$ 21.00	\$ -	\$ 40.00	0	\$ -
0	\$ 41.00	\$ -	\$ 40.00	0	\$ -
0	\$ 6.00	\$ -	\$ 40.00	0	\$ -
0	\$ 150.00	\$ -	\$ 150.00	0	\$ -

SUB TOTAL \$ -

SURFACING:

Roads	Landings	Roads	Turn Arouds	Junctions	Culvert Bedding	Transition Rock	Dissipator (cy/pipe)	Total	Haul & Crush Combined \$	Cost
1.5"- 0"									\$ 19.41	\$ -
6" -0" Jaw Run									\$ 19.24	
Pit Run									\$ 10.74	\$ -

Total = cy

SUB TOTAL \$ -

GRAND TOTAL = \$ 1,985.00

PROJECT NO. 1
NEW CONSTRUCTION

Sale: Green Basin Split

Road Segment: C to C1

NEW CONSTRUCTION:

	Station	Designed Cubic Yards/Station				Cost per	
	Quantity	Pit Run	1.5"- 0"	6" -0" Jaw Run	Dissipator	Station or Acre	Sum \$
New construct	6+88					\$ 500.00	\$ 3,440.00
Landing C1	1					\$ 500.00	\$ 500.00
Truck Turnaround	1					\$ 150.00	\$ 150.00

SUB TOTAL \$ 4,090.00

CULVERTS:

Description	Type	Size	Total Length	Cost	Bevel	Bands	Cost	Sub Total	Install \$	Sum \$
	ACSP	0	0	\$ -	\$ -	0	\$ -	\$ -	\$ -	\$ -

ACSP = aluminum corrugated steel pipe

Mulch - 2.5 tons/acre
Grass Seed (25 lb bag)
Install 6' long steel "T" posts
Install outlet dissipator

Quantity	Cost	Sub Total	Labor Cost/Hr	Labor Time	Sum \$
0	\$ 21.00	\$ -	\$ 40.00	0	\$ -
0	\$ 41.00	\$ -	\$ 40.00	0	\$ -
0	\$ 6.00	\$ -	\$ 40.00	0	\$ -
0	\$ 150.00	\$ -	\$ 150.00	0	\$ -

SUB TOTAL \$ -

SURFACING:

Roads	Landings	Roads	Turn Arouds	Two-way Junctions	Culvert Bedding	Transition Rock	Dissipator (cy/pipe)	Total	Haul & Crush Combined \$	Cost
1.5"- 0"									\$ 19.41	\$ -
6" -0" Jaw Run									\$ 19.24	\$ -
Pit Run									\$ 10.74	\$ -

Total =

SUB TOTAL \$ -

GRAND TOTAL = \$ 4,090.00

PROJECT NO. 1
NEW CONSTRUCTION

Sale: Green Basin Split

Road Segment: Landing G

NEW CONSTRUCTION:

	Station	Designed Cubic Yards/Station				Cost per	
	Quantity	Pit Run	1.5"- 0"	6" -0" Jaw Run	Endpush	Station or Acre	Sum \$
New construct Landing	0+60					\$ 500.00	\$ 300.00
Landing	1			40 cy	175 cy	\$ 3.83	\$ 670.83

SUB TOTAL \$ 970.83

CULVERTS:

Description	Type	Size	Total Length	Cost	Bevel	Bands	Cost	Sub Total	Install \$	Sum \$
	ACSP	0	0	\$ -	\$ -	0	\$ -	\$ -	\$ -	\$ -

ACSP = aluminum corrugated steel pipe

Mulch - 2.5 tons/acre
Grass Seed (25 lb bag)
Install 6' long steel "T" posts
Install outlet dissipator

Quantity	Cost	Sub Total	Labor Cost/Hr	Labor Time	Sum \$
0	\$ 21.00	\$ -	\$ 40.00	0	\$ -
0	\$ 41.00	\$ -	\$ 40.00	0	\$ -
0	\$ 6.00	\$ -	\$ 40.00	0	\$ -
0	\$ 150.00	\$ -	\$ 150.00	0	\$ -

SUB TOTAL \$ -

SURFACING:

Roads	Landings	Roads	Turn Arouds	Two-way Junctions	Culvert Bedding	Landing Tailtrack	Dissipator (cy/pipe)	Total	Haul & Crush Combined \$	Cost
1.5"- 0"									\$ 19.41	\$ -
6" -0" Jaw Run	40 cy							40 cy	\$ 19.24	\$ 769.60
Pit Run									\$ 10.74	\$ -

Total = 40 cy

SUB TOTAL \$ 769.60

GRAND TOTAL = \$ 1,740.43

PROJECT NO. 1
NEW CONSTRUCTION

Sale: Green Basin Split

Road Segment: Landing H

NEW CONSTRUCTION:

	Station	Designed Cubic Yards/Station				Cost per	
	Quantity	Pit Run	1.5"- 0"	6" -0" Jaw Run	Dissipator	Station or Acre	Sum \$
New construct	0+40					\$ 500.00	\$ 200.00
Landing	1			30 cy		\$ 500.00	\$ 500.00

SUB TOTAL \$ 700.00

CULVERTS:

Description	Type	Size	Total	Cost	Bevel	Bands	Cost	Sub Total	Install \$	Sum \$
			Length							
	ACSP	0	0	\$ -	\$ -	0	\$ -	\$ -	\$ -	\$ -

ACSP = aluminum corrugated steel pipe

Mulch - 2.5 tons/acre
Grass Seed (25 lb bag)
Install 6' long steel "T" posts
Install outlet dissipator

Quantity	Cost	Sub Total	Labor Cost/Hr	Labor Time	Sum \$
0	\$ 21.00	\$ -	\$ 40.00	0	\$ -
0	\$ 41.00	\$ -	\$ 40.00	0	\$ -
0	\$ 6.00	\$ -	\$ 40.00	0	\$ -
0	\$ 150.00	\$ -	\$ 150.00	0	\$ -

SUB TOTAL \$ -

SURFACING:

Roads	Landings	Roads	Turn Arounds	Two-way Junctions	Culvert Bedding	Landing Tailtrack	Dissipator (cy/pipe)	Total	Haul & Crush Combined \$	Cost
1.5"- 0"									\$ 19.41	\$ -
6" -0" Jaw Run	30 cy							30 cy	\$ 19.24	\$ 577.20
Pit Run									\$ 10.74	\$ -

Total = 30 cy

SUB TOTAL \$ 577.20

GRAND TOTAL = \$ 1,277.20

PROJECT NO. 1
NEW CONSTRUCTION

Sale: Green Basin Split

Road Segment: Landing I

NEW CONSTRUCTION:

	Station	Designed Cubic Yards/Station				Cost per	
	Quantity	Pit Run	1.5"- 0"	6" -0" Jaw Run	Dissipator	Station or Acre	Sum \$
New construct	0+60					\$ 500.00	\$ 300.00
Landing	1			40 cy		\$ 500.00	\$ 500.00

SUB TOTAL	\$ 800.00
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CULVERTS:

Description	Type	Size	Total	Cost	Bevel	Bands	Cost	Sub Total	Install \$	Sum \$
			Length							
	ACSP	0	0	\$ -	\$ -	0	\$ -	\$ -	\$ -	\$ -

ACSP = aluminum corrugated steel pipe

Mulch - 2.5 tons/acre
Grass Seed (25 lb bag)
Install 6' long steel "T" posts
Install outlet dissipator

Quantity	Cost	Sub Total	Labor Cost/Hr	Labor Time	Sum \$
0	\$ 21.00	\$ -	\$ 40.00	0	\$ -
0	\$ 41.00	\$ -	\$ 40.00	0	\$ -
0	\$ 6.00	\$ -	\$ 40.00	0	\$ -
0	\$ 150.00	\$ -	\$ 150.00	0	\$ -

SUB TOTAL	\$ -
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SURFACING:

Roads	Landings	Roads	Turn Arounds	Two-way Junctions	Culvert Bedding	Landing Tailtrack	Dissipator (cy/pipe)	Total	Haul & Crush Combined \$	Cost
1.5"- 0"									\$ 19.41	\$ -
6" -0" Jaw Run	40 cy							40 cy	\$ 19.24	\$ 769.60
Pit Run									\$ 10.74	\$ -

Total =

40 cy

SUB TOTAL	\$ 769.60
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GRAND TOTAL =	\$ 1,569.60
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PROJECT NO. 1
NEW CONSTRUCTION

Sale: Green Basin Split

Road Segment: Landing J

NEW CONSTRUCTION:

	Station	Designed Cubic Yards/Station				Cost per	
	Quantity	Pit Run	1.5"- 0"	6" -0" Jaw Run	Dissipator	Station or Acre	Sum \$
New construct	0+60					\$ 500.00	\$ 300.00
Landing	1			40 cy		\$ 500.00	\$ 500.00

SUB TOTAL	\$ 800.00
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CULVERTS:

Description	Type	Size	Total	Cost	Bevel	Bands	Cost	Sub Total	Install \$	Sum \$
			Length							
	ACSP	0	0	\$ -	\$ -	0	\$ -	\$ -	\$ -	\$ -

ACSP = aluminum corrugated steel pipe

Mulch - 2.5 tons/acre
Grass Seed (25 lb bag)
Install 6' long steel "T" posts
Install outlet dissipator

Quantity	Cost	Sub Total	Labor Cost/Hr	Labor Time	Sum \$
0	\$ 21.00	\$ -	\$ 40.00	0	\$ -
0	\$ 41.00	\$ -	\$ 40.00	0	\$ -
0	\$ 6.00	\$ -	\$ 40.00	0	\$ -
0	\$ 150.00	\$ -	\$ 150.00	0	\$ -

SUB TOTAL	\$ -
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SURFACING:

Roads	Landings	Roads	Turn Arounds	Two-way Junctions	Culvert Bedding	Landing Tailtrack	Dissipator (cy/pipe)	Total	Haul & Crush Combined \$	Cost
1.5"- 0"									\$ 19.41	\$ -
6" -0" Jaw Run	40 cy							40 cy	\$ 19.24	\$ 769.60
Pit Run									\$ 10.74	\$ -

Total =

40 cy

SUB TOTAL	\$ 769.60
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GRAND TOTAL =	\$ 1,569.60
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PROJECT NO. 1
NEW CONSTRUCTION

Sale: Green Basin Split

Road Segment: K to K1

NEW CONSTRUCTION:

	Station	Designed Cubic Yards/Station				Cost per	
	Quantity	Pit Run	1.5"- 0"	6" -0" Jaw Run	Dissipator	Station or Acre	Sum \$
New construct	2+12					\$ 500.00	\$ 1,060.00
Landing C1	1					\$ 500.00	\$ 500.00
Transition Junction Rock	0+50			48 cy			\$ -

SUB TOTAL \$ 1,560.00

CULVERTS:

Description	Type	Size	Total Length	Cost	Bevel	Bands	Cost	Sub Total	Install \$	Sum \$
	ACSP	0	0	\$ -	\$ -	0	\$ -	\$ -	\$ -	\$ -

ACSP = aluminum corrugated steel pipe

Mulch - 2.5 tons/acre
Grass Seed (25 lb bag)
Install 6' long steel "T" posts
Install outlet dissipator

Quantity	Cost	Sub Total	Labor Cost/Hr	Labor Time	Sum \$
0	\$ 21.00	\$ -	\$ 40.00	0	\$ -
0	\$ 41.00	\$ -	\$ 40.00	0	\$ -
0	\$ 6.00	\$ -	\$ 40.00	0	\$ -
0	\$ 150.00	\$ -	\$ 150.00	0	\$ -

SUB TOTAL \$ -

SURFACING:

Roads	Landings	Roads	Turn Arouds	Two-way Junctions	Culvert Bedding	Transition Rock	Dissipator (cy/pipe)	Sub Total	Haul & Crush Combined \$	Cost
1.5"- 0"									\$ 19.41	\$ -
6" -0" Jaw Run						24 cy		24 cy	\$ 19.24	\$ 461.76
Pit Run									\$ 10.74	\$ -

Total =

24 cy

SUB TOTAL \$ 461.76

GRAND TOTAL = \$ 2,021.76

Road Segment: Landing G												
Application	Rock Size and Type	Location	Depth of Rock (in)	Point to Point			Sta. to Sta.			Total Volume (CY)		
				na	to	na	0+00	to	0+60			
				Volume (CY)			Number of					
Base Rock Landing	6"- 0" Jaw Run	213+71 (Niagara Road)	9	54			Stations			0.74	40	
Total Rock for Landing G											40	

Road Segment: Landing H													Total Volume (CY)		
Application	Rock Size and Type	Location	Depth of Rock (in)	Point to Point			Sta. to Sta.			Total Volume (CY)					
				na	to	na	0+00	to	0+60						
				Volume (CY)			Number of								
Base Rock Landing	6"- 0" Jaw Run	203+50 (Niagara Road)	9	Station			54			Stations	0.56	30			
Total Rock for Landing H											30				

Road Segment: Landing I													Total Volume (CY)
Application	Rock Size and Type	Location	Depth of Rock (in)	Point to Point			Sta. to Sta.						
				na	to	na	0+00	to	0+40				
				Volume (CY)						Number of			
				Station	54	Stations	0.74						
Base Rock Landing	6"- 0" Jaw Run	191+70 (Niagara Road)	9	Station			54			Stations		0.74	40
Total Rock for Landing I													40

Road Segment: Landing J														
Application	Rock Size and Type	Location	Depth of Rock (in)	Point to Point			Sta. to Sta.			Total Volume (CY)				
				na	to	na	0+00	to	0+40					
				Volume (CY)			Number of							
Base Rock Landing	6"- 0" Jaw Run	185+62 (Niagara Road)	9	Station			54			Stations	0.74	40		
											Total Rock for Landing J			40

Road Segment: K to K1													
Application	Rock Size and Type	Location	Depth of Rock (in)	Point to Point			Sta. to Sta.			Total Volume (CY)			
				K	to	K1	0+00	to	2+12				
											Volume (CY)		
Transition Section	6"- 0" Jaw Run	0+00 to 0+50	8	Station			48			Each	0.5	24	
											Total Rock for Road Segment:		24

Stockpile												Total Volume (CY)
Application	Rock Size and Type	Location	Depth of Rock (in)				Volume (CY)	Number of				
N30 Pit	1.5'-0" Crushed Rock	End of the N30 Spur	Uniform Pile	Site		3242	Pit			1		
N30 Pit	6'-0" Jaw Run	End of the N30 Spur	Uniform Pile	Site		1372	Each			1		
											3,242	
											1,372	

Rock Summary Table				
Location	Size of Rock	Stockpile	Total to Crush	
N30	1.5"- 0" Crushed	758 cy	3,242 cy	4,000 cy
N30	6"- 0"Jaw Run	1,628 cy	1,372 cy	3,000 cy
On Site	8" + for outlet dissipators	6 cy	0	0
Total =			7,000 cy	

MOVE-IN COSTS

Green Basin Split

Move in costs							
No.	Equipment Description	Transport Cost	Hours of Transport	Cost to Move	Weedwash Time (Hrs)	Weedwash Labor (\$50/hour)	Total Cost
1	Grader	\$ 175.00	6	\$ 1,050.00	0	\$ -	\$ 1,050.00
1	Rollers & Compactor	\$ 175.00	6	\$ 1,050.00	0	\$ -	\$ 1,050.00
1	Excavator	\$ 210.00	6	\$ 1,260.00	6	\$ 300.00	\$ 1,560.00
0	Small backhoe	\$ 175.00	6	\$ 1,050.00	4	\$ 200.00	\$ -
1	Tractors Dozer (D5 - D8)	\$ 210.00	6	\$ 1,260.00	6	\$ 300.00	\$ 1,560.00
2	Dump Truck (10 cy +)	\$ 110.00	2	\$ 220.00	0	\$ -	\$ 440.00
1	Loader	\$ 210.00	6	\$ 1,260.00	0	\$ -	\$ 1,260.00
1	Road Brusher	\$ 175.00	6	\$ 1,050.00	6	\$ 300.00	\$ 1,350.00
1	Water Truck (1000 gallon)	\$ 110.00	2	\$ 220.00	0	\$ -	\$ 220.00
Total one time							\$ 8,490.00

TOTAL MOVE-IN COSTS =	\$ 8,490.00
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PROJECT NO. 2
ROAD IMPROVEMENT

Sale: Green Basin Split

Road Segment: D to D1

ROAD IMPROVEMENT

	Station	Designed Cubic Yards/Station				Cost per	Sum \$
	Quantity	Pit Run	1.5" - 0"	6" - 0" Jaw Run	Endhaul	Station or Acre	
Improvement + Brushing	4+80					\$ 260.00	\$ 1,248.00
Transition Section	0+50			48 cy			\$ -

SUB TOTAL \$ 1,248.00

CULVERTS:

Description	Type	Size	Total Length	Cost	Bevel	Bands	Cost	Sub Total	Install \$	Sum \$
	ACSP	0	0	\$ -	\$ -	0	\$ -	\$ -	\$ -	\$ -

ACSP = aluminum corrugated steel pipe

Mulch - 2.5 tons/acre = (20) 50 lb bales Waste Area #1
Grass Seed (40 lb bag) Waste Area #1
Install 6' long steel "T" posts place on posts missing on pipes.
Install outlet dissipator

Quantity	Cost	Sub Total	Labor Cost/Hr	Labor Time	Sum \$
	\$ 21.00	\$ -	\$ 40.00	0	\$ -
	\$ 100.00	\$ -	\$ 40.00	0	\$ -
	\$ 6.00	\$ -	\$ 40.00	0	\$ -
		\$ -		0	\$ -
SUB TOTAL					\$ -

SURFACING:

Roads	Landings	Roads	Turn Arouds	Two-way Junction	Culvert Bedding	Transition Rock	Dissipator (cy/pipe)	Total	Haul & Crush Combined \$	Cost
1.5" - 0"								cy	\$ 19.41	\$ -
6" - 0" Jaw Run						24 cy		24 cy	\$ 19.24	\$ 461.76
Pit Run										\$ -
Total =								24 cy		
SUB TOTAL									\$	461.76

GRAND TOTAL = \$ 1,709.76

PROJECT NO. 2
ROAD IMPROVEMENT

Sale: Green Basin Split

Road Segment: E to C

ROAD IMPROVEMENT

	Station	Designed Cubic Yards/Station				Cost per	
	Quantity	Pit Run	1.5"- 0"	6" -0" Jaw Run	Endhaul	Station or Acre	Sum \$
Improve (spot rock soft spots)	64+30		3 cy			\$ 15.00	\$ 964.50
Curve widening (sta. 62+47)	1+00		22 cy	48 cy		\$ 250.00	\$ 250.00

SUB TOTAL \$ 1,214.50

CULVERTS:

Description	Type	Size	Total Length	Cost	Bevel	Bands	Cost	Sub Total	Install \$	Sum \$
	ACSP	0	0	\$ -	\$ -	0	\$ -	\$ -	\$ -	\$ -

ACSP = aluminum corrugated steel pipe

Mulch - 2.5 tons/acre = (20) 50 lb bales Waste Area #1
Grass Seed (40 lb bag) Waste Area #1
Install 6' long steel "T" posts place on posts missing on pipes.
Install outlet dissipator

Quantity	Cost	Sub Total	Labor Cost/Hr	Labor Time	Sum \$
	\$ 21.00	\$ -	\$ 40.00	0	\$ -
	\$ 100.00	\$ -	\$ 40.00	0	\$ -
	\$ 6.00	\$ -	\$ 40.00	0	\$ -
		\$ -		0	\$ -
SUB TOTAL					\$ -

SURFACING:

Roads	Landings	Roads	Curve Widening	Two-way Junction	Culvert Bedding	Landing Tailtrack	Dissipator (cy/pipe)	Total	Haul & Crush Combined \$	Cost
1.5"- 0"		193 cy	22 cy					215 cy	\$ 19.41	\$ 4,173.15
6" -0" Jaw Run			48 cy					48 cy	\$ 19.24	\$ 923.52
Pit Run										\$ -

Total = 263 cy

SUB TOTAL \$ 5,096.67

GRAND TOTAL = \$ 6,311.17

PROJECT NO. 2
ROAD IMPROVEMENT

Sale: Green Basin Split

Road Segment: E1 to B

ROAD IMPROVEMENT

	Station	Designed Cubic Yards/Station				Cost per	
	Quantity	Pit Run	1.5"- 0"	6" -0" Jaw Run	Endhaul	Station or Acre	Sum \$
Improvement	6+40					\$ 125.00	\$ 800.00
Widening road (0+00 to 2+87)	2+87		22 cy	48 cy	235 cy	\$ 3.83	\$ 900.83
Curve widening (1+50 to 3+00)	1+50		22 cy	48 cy		\$ 250.00	\$ 375.00

SUB-TOTAL \$ 2,075.83

CULVERTS:

Description	Type	Size	Total Length	Cost	Bevel	Bands	Cost	Sub Total	Install \$	Sum \$
	ACSP	0	0	\$ -	\$ -	0	\$ -	\$ -	\$ -	\$ -

ACSP = aluminum corrugated steel pipe

Mulch - 2.5 tons/acre = (20) 50 lb bales Waste Area #1
Grass Seed (40 lb bag) Waste Area #1
Install 6' long steel "T" posts place on posts missing on pipes.
Install outlet dissipator

Quantity	Cost	Sub Total	Labor Cost/Hr	Labor Time	Sum \$
	\$ 21.00	\$ -	\$ 40.00	0	\$ -
	\$ 100.00	\$ -	\$ 40.00	0	\$ -
	\$ 6.00	\$ -	\$ 40.00	0	\$ -
		\$ -		0	\$ -
SUB-TOTAL					\$ -

SURFACING:

Roads	Landings	Roads	Turn Arouds	Two-way Junction	Culvert Bedding	Landing Tailtrack	Dissipator (cy/pipe)	Total	Haul & Crush Combined \$	Cost
1.5"- 0"		96 cy						96 cy	\$ 19.41	\$ 1,863.36
6" -0" Jaw Run		210 cy						210 cy	\$ 19.24	\$ 4,040.40
Pit Run										\$ -

Total = 306 cy

SUB-TOTAL \$ 5,903.76

GRAND TOTAL = \$ 7,979.59

PROJECT NO. 2
ROAD IMPROVEMENT

Sale: Green Basin Split

Road Segment: F to F1

ROAD IMPROVEMENT

	Station	Designed Cubic Yards/Station				Cost per	
	Quantity	Pit Run	1.5" - 0"	6" - 0" Jaw Run	Endhaul	Station or Acre	Sum \$
Improvement	19+98					\$ 15.00	\$ 299.70
Truck turnaround	0+50			48 cy		\$ 150.00	\$ 75.00

SUB TOTAL \$ 374.70

CULVERTS:

Description	Type	Size	Total Length	Cost	Bevel	Bands	Cost	Sub Total	Install \$	Sum \$
	ACSP	0	0	\$ -	\$ -	0	\$ -	\$ -	\$ -	\$ -

ACSP = aluminum corrugated steel pipe

Mulch - 2.5 tons/acre = (20) 50 lb bales Waste Area #1
Grass Seed (40 lb bag) Waste Area #1
Install 6' long steel "T" posts place on posts missing on pipes.
Install outlet dissipator

Quantity	Cost	Sub Total	Labor Cost/Hr	Labor Time	Sum \$
	\$ 21.00	\$ -	\$ 40.00	0	\$ -
	\$ 100.00	\$ -	\$ 40.00	0	\$ -
	\$ 6.00	\$ -	\$ 40.00	0	\$ -
		\$ -		0	\$ -
SUB TOTAL					\$ -

SURFACING:

Roads	Landings	Roads	Turn Arouds	Two-way Junction	Culvert Bedding	Landing Tailtrack	Dissipator (cy/pipe)	Total	Haul & Crush Combined \$	Cost
1.5" - 0"			cy						\$ 19.41	\$ -
6" - 0" Jaw Run			24 cy					24 cy	\$ 19.24	\$ 461.76
Pit Run										\$ -
Total =								24 cy		
SUB TOTAL									\$	461.76

GRAND TOTAL = \$ 836.46

1.5"- 0 Crushed		\$/cu.yd.==>	\$ 12.13	
Swell:	1.30			
Shrinkage/Compact:	1.16			
Drill Pct.:	100%			
Override Pct.:	10%			
Scalp & Clear Overburden:		\$200.00 /hr	x	
Drill & Shoot:		\$ 3.00 /cy	x	4 hrs = \$ 800.00
Sort and split oversize rock:		\$ 4.25 /cy	x	4,000 cy = \$ 12,000.00
Load Crusher:		\$ 1.25 /cy	x	400 cy = \$ 1,700.00
Crushing		\$ 2.50 /cy	x	4,000 cy = \$ 5,000.00
Screening Rock		\$ 2.30 /cy	x	4,000 cy = \$ 10,000.00
Clean Up Pit		\$ 270.00 /hr	x	4,000 cy = \$ 9,200.00
			2 hrs =	\$ 540.00
			Subtotal	\$ 39,240.00

MOVE IN COSTS				
3-stage crusher	1	\$ 3,450.00		\$ 3,450.00
Move in and set up Drill and Compressor	1	\$ 1,200.00		\$ 1,200.00
Move in D-8 (w/Wash)	1	\$ 1,615.00		\$ 1,615.00
Move in Loaders	1	\$ 1,225.00		\$ 1,225.00
Move in Excavator (w/Wash)	1	\$ 1,615.00		\$ 1,615.00
Move in Trucks	1	\$ 110.00		\$ 110.00
Gradation Tests		\$ 70.00 per	4,000 cy	= \$ 70.00
				\$ 9,285.00

ESTIMATED TOTAL COS

\$ 48,525.00

6" jaw run		\$/cu.yd.	\$ 9.79	
Swell:	1.30			
Shrinkage/Compact:	1.16			
Drill Pct.:	100%			
Override Pct.:	10%			
Scalp & Clear Overburden:		\$200.00 /hr	x	
Drill & Shoot:		\$ 3.00 /cy	x	2 hrs = \$ 400.00
Sort and split oversize rock:		\$ 4.25 /cy	x	3,000 cy = \$ 9,000.00
Load Crusher:		\$ 1.25 /cy	x	300 cy = \$ 1,275.00
Crushing		\$ 2.50 /cy	x	3,000 cy = \$ 3,750.00
Screening Rock		\$ 2.30 /cy	x	3,000 cy = \$ 7,500.00
Clean Up Pit		\$ 270.00 /hr	x	3,000 cy = \$ 6,900.00
			2 hrs =	\$ 540.00
			Subtotal	\$ 29,365.00

GRAND TOTAL FOR CRUSHING	\$ 77,890.00
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Green Basin Split

(Sale Name)

N30 Pit	(Quarry)	N30 Pit	(Stockpile)
Jaw Run (Rock Type)	D10 (Truck)		(Grader)
6"-0 (Rock Size)	Cat Exc (Loader)		(Tractor)

Hauling Time Computation

50 MPH	Miles per round trip	0	Minutes
40 MPH	Miles per round trip	0	Minutes
35 MPH	Miles per round trip	0	Minutes
30 MPH	Miles per round trip	0	Minutes
25 MPH	3 Miles per round trip	7	Minutes
20 MPH	2 Miles per round trip	6	Minutes
15 MPH	1 Miles per round trip	4	Minutes
10 MPH	0.5 Miles per round trip	3	Minutes
5 MPH	Miles per round trip	0	Minutes
	Total Miles per Round Trip		
	6.5		
Dump or Spread Time per Round Trip		0.25	Minutes
Total Hauling Cycle Time for this Setting (100% Efficiency)		20.45	Minutes
Operator Efficiency Correction (80% Efficiency)		26	Minutes

Time Per Cubic Yard

Hauling Only (per cubic yard)	2.13	min/cu.yd
Delay Time (while loading = loading time per cubic yard)	0.83	min/cu.yd
Total Time Per Cubic Yard	2.96	min/cu.yd

Hauling Cost Per Cubic Yard Computation

Cost of Truck Per Hour		
Cost of Truck Operator Pre Hour	\$	50.00 per Hr.
Total Operating Cost Per Hour	\$	50.00 per Hr.
Operating Cost Per Minute	\$	100.00 per Hr.
Cost Per Cubic Yard	\$	1.67 per Min.
Loading Cost Per Cubic Yard	\$	4.94 per Cu. Yd.
Placement Cost Per Cubic Yard	\$	2.78 per Cu. Yd.

Loading Cost Per Cubic Yard

Cost of grader Per Hour	\$	75.00 per Hr.
Cost of Operator Per Hour	\$	50.00 per Hr.
Cost of Compaction Equip. Per Hour	\$	75.00 per Hr.
Cost of Compaction Equip. Op. Per Hour	\$	50.00 per Hr.
Total Operating Cost Per Hour	\$	250.00 per Hr.
Cost Per Cubic Yard to Place and Compact	\$	1.74 Cu. Yd.

Total Cost to Load, Haul and Place

No Crushing Cost	\$	9.45 Cu. Yd.
Grand Total Combined	\$	9.79
	\$	19.24

Rates

Dump Truck	Rate (\$/Hr.)	Capacity (cy)	Operator (\$/Hr.)	Total
B20	\$ 70.00	20	\$ 50.00	\$ 120.00
D10	\$ 50.00	12	\$ 50.00	\$ 100.00
OH25	\$ 80.00	25	\$ 50.00	\$ 130.00
Grader	Rate (\$/Hr.)		Operator (\$/Hr.)	Total
12-G	\$ 75.00		\$ 50.00	\$ 125.00
14-G	\$ 95.00		\$ 50.00	\$ 145.00
Compaction Equipment	Rate (\$/Hr.)		Operator (\$/Hr.)	Total
Vibratory Roller	\$ 75.00		\$ 50.00	\$ 125.00
Vib. Grid Roller	\$ 75.00		\$ 50.00	\$ 125.00
Hand Held Compactor	\$ 15.00		\$ 50.00	\$ 65.00
Tractors	Rate (\$/Hr.)		Operator (\$/Hr.)	Total
D4	\$ 60.00		\$ 50.00	\$ 110.00
D6	\$ 100.00		\$ 50.00	\$ 150.00
D7	\$ 125.00		\$ 50.00	\$ 175.00
D8	\$ 150.00		\$ 60.00	\$ 210.00

Loader/Excavator	Rate (\$/Hr.)	Capacity (cy)	Operator (\$/Hr.)	Total
14G Cat Wheel Loader	\$ 80.00	3	\$ 50.00	\$ 130.00
Cat Excavator	\$ 150.00	3	\$ 50.00	\$ 200.00

Loading Costs	Rate (Min/Load)	Delay (Min)	Loading Time (Min)	Total
Crushed Rock		5	1.25	10
Pit-Run/Jaw-Run Rock		5	2.00	10
Rip Rap Rock		10	2.50	12.5
Fill Material		5	1.25	6.25
Reclaim Rock		5	1.25	20

Dump or Spread Time (Min)

Pile Dump	0.25
Truck Spread	0.5
Spreading w/Grader	5
Placement of Rip Rap	10

Green Basin Split

(Sale Name)

N30 Pit (Quarry)		N30 Pit (Stockpile)		Spread
Crushed (Rock Type)		D10 (Truck)	12-G (Grader)	Vibratory Roller (Compactor)
1.5'-0" (Rock Size)		14G (Loader)	D8 (Tractor)	

Hauling Time Computation

	Miles per round trip
	Miles per round trip
	Miles per round trip
3	Miles per round trip
2	Miles per round trip
	Miles per round trip
1	Miles per round trip
0.5	Miles per round trip
	Miles per round trip
6.5	Total Miles per Round Trip

Dump or Spread Time per Round Trip

Total Hauling Cycle Time for this Setting (100% Efficiency)

Operator Efficiency Correction (80% Efficiency)

Time Per Cubic Yard

Hauling Only (per cubic yard)	2.13
Delay Time (while loading = loading time per cubic yard)	0.52
Total Time Per Cubic Yard	2.65

Hauling Cost Per Cubic Yard Computation

Cost of Truck Per Hour	\$	50.00	per Hr.
Cost of Truck Operator Pre Hour	\$	50.00	per Hr.
Total Operating Cost Per Hour	\$	100.00	per Hr.
Operating Cost Per Minute	\$	1.67	per Min.

Loading Cost Per Cubic Yard

Spreading Cost Per Cubic Yard

Cost of Grader Per Hour	\$	75.00	per Hr.
Cost of Grader Operator Per Hour	\$	50.00	per Hr.
Cost of Compaction Equip. Per Hour	\$	75.00	per Hr.
Cost of Compaction Equip. Op. Per Hour	\$	50.00	per Hr.
Total Operating Cost Per Hour	\$	250.00	per Hr.

Cost Per Cubic Yard to Grade and Roll

Cost to Load, Haul and Place

No Crushing Cost

NO CRUSHING COST

Grand Total Combined

Rates

	Dump Truck		Rate (\$/Hr.)	Capacity (cy)	Operator (\$/Hr.)	Total
B20			\$ 70.00	20	\$ 50.00	\$ 120.00
D10			\$ 50.00	12	\$ 50.00	\$ 100.00
OH25			\$ 80.00	25	\$ 50.00	\$ 130.00

Grader

12-G	\$	75.00	\$	50.00	\$	125.00
14-G	\$	95.00	\$	50.00	\$	145.00

Compaction Equipment

Equipment	Unit	Quantity	Unit Price	Total Price
Vibratory Roller	\$	75.00	\$	50.00
Vib. Grid Roller	\$	75.00	\$	50.00
Hand Held Compactor	\$	15.00	\$	50.00
				65.00

T

Case	Cost	Revenue	Profit
D4	\$ 60.00	\$ 50.00	\$ 110.00
D6	\$ 100.00	\$ 50.00	\$ 150.00
D7	\$ 125.00	\$ 50.00	\$ 175.00
D8	\$ 150.00	\$ 50.00	\$ 200.00

Loader

14G Cat Wheel Loader	\$	80.00	3	\$	50.00	\$	130.00
Cat Excavator	\$	150.00	3	\$	50.00	\$	200.00

Loading Costs	(Min/Load)	Delay (Min)	Loading Time (Min)
Crushed Rock	5	1.25	6.25
Pit-Run/Jaw-Run Rock	5	1.25	6.25
Rip Rap Rock	5	1.25	6.25
Fill Material	5	1.25	6.25

Dump or Spread Time (Min)

Pile Dump	0.25
Truck Spread	0.5
Spreading w/Grader	5

Green Basin Split

(Sale Name)

N30 Pit		(Quarry)	N30 Pit	(Stockpile)
Pit Run	(Rock Type)	D10	(Truck)	12-G
8"+	(Rock Size)	14G	(Loader)	D8
			(Grader)	(Tractor)

Hauling Time Computation

50 MPH	Miles per round trip	0	Minutes
40 MPH	Miles per round trip	0	Minutes
35 MPH	Miles per round trip	0	Minutes
30 MPH	Miles per round trip	0	Minutes
25 MPH	Miles per round trip	3	Minutes
20 MPH	Miles per round trip	2	Minutes
15 MPH	Miles per round trip	1	Minutes
10 MPH	Miles per round trip	0.5	Minutes
5 MPH	Miles per round trip	0	Minutes
	Total Miles per Round Trip	6.5	
Dump or Spread Time per Round Trip			
Total Hauling Cycle Time for this Setting (100% Efficiency)			
Operator Efficiency Correction (80% Efficiency)			

Time Per Cubic Yard

Hauling Only (per cubic yard)
Delay Time (while loading = loading time per cubic yard)
Total Time Per Cubic Yard

Hauling Cost Per Cubic Yard Computation

Cost of Truck Per Hour
Cost of Truck Operator Pre Hour
Total Operating Cost Per Hour
Operating Cost Per Minute
Cost Per Cubic Yard
Loading Cost Per Cubic Yard
Spreading Cost Per Cubic Yard

Cost of Excavator Per Hour
Cost of Excavator Operator Per Hour
Cost of Compaction Equip. Per Hour
Cost of Compaction Equip. Op. Per Hour
Total Operating Cost Per Hour
Cost Per Cubic Yard to Place and Compact
Total Cost to Load, Haul and Place
No Crushing
Grand Total Combined

Rates

Dump Truck	Rate (\$/Hr.)	Capacity (cy)	Operator (\$/Hr.)	Total
B20	\$ 70.00	20	\$ 50.00	\$ 120.00
D10	\$ 50.00	12	\$ 50.00	\$ 100.00
OH25	\$ 80.00	25	\$ 50.00	\$ 130.00
Grader	Rate (\$/Hr.)		Operator (\$/Hr.)	Total
12-G	\$ 75.00		\$ 50.00	\$ 125.00
14-G	\$ 95.00		\$ 50.00	\$ 145.00
Compaction Equipment	Rate (\$/Hr.)		Operator (\$/Hr.)	Total
Vibratory Roller	\$ 75.00		\$ 50.00	\$ 125.00
Vib. Grid Roller	\$ 75.00		\$ 50.00	\$ 125.00
Hand Held Compactor	\$ 15.00		\$ 50.00	\$ 65.00
Tractors	Rate (\$/Hr.)		Operator (\$/Hr.)	Total
D4	\$ 60.00		\$ 50.00	\$ 110.00
D6	\$ 100.00		\$ 50.00	\$ 150.00
D7	\$ 125.00		\$ 50.00	\$ 175.00
D8	\$ 150.00		\$ 50.00	\$ 200.00
Loader	Rate (\$/Hr.)	Capacity (cy)	Operator (\$/Hr.)	Total
14G Cat Wheel Loader	\$ 80.00	3	\$ 50.00	\$ 130.00
Cat Excavator	\$ 150.00	3	\$ 50.00	\$ 200.00
Loading Costs		Rate (Min/Load)	Delay (Min)	Total Loading Time (Min)
Crushed Rock		5	1.25	6.25
Pit-Run/Jaw-Run Rock		5	2.00	7.00
Rip Rap Rock		5	1.25	6.25
Fill Material		5	1.25	6.25

Dump or Spread Time (Min)

Pile Dump and place rock	8
Truck Spread	0.5
Spreading w/Grader	5

TC PSTATS							PROJECT STATISTICS			PAGE	1
							PROJECT	GBS1	DATE	4/15/2024	
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt	
09S	04E	22	U1	CC		82.00	32	207	S	W	
			PLOTS		TREES	ESTIMATED TOTAL		PERCENT SAMPLE			
					PER PLOT	TREES		TREES			
TOTAL			32	207	6.5						
CRUISE			18	95	5.3	8,574		1.1			
DBH COUNT											
REFOREST											
COUNT			14	95	6.8						
BLANKS											
100 %											
STAND SUMMARY											
SAMPLE			TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
TREES			/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUG FIR			90	100.9	19.0	109	45.6	198.5	35,427	33,836	8,114
WHEMLOCK			5	3.7	16.2	81	1.3	5.3	581	565	150
TOTAL			95	104.6	18.9	108	46.9	203.8	36,008	34,401	8,264
CONFIDENCE LIMITS OF THE SAMPLE											
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR											
CL	68.1	COEFF		SAMPLE TREES - BF				# OF TREES REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15		
DOUG FIR		51.9	5.5	377	399	420					
WHEMLOCK		41.8	20.8	136	172	208					
TOTAL		53.8	5.5	365	387	408	116	29	13		
CL	68.1	COEFF		SAMPLE TREES - CF				# OF TREES REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15		
DOUG FIR		46.4	4.9	90	94	99					
WHEMLOCK		40.0	19.9	37	46	56					
TOTAL		48.0	4.9	87	92	96	92	23	10		
CL	68.1	COEFF		TREES/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15		
DOUG FIR		36.5	6.4	94	101	107					
WHEMLOCK		319.5	56.4	2	4	6					
TOTAL		25.8	4.6	100	105	109	27	7	3		
CL	68.1	COEFF		BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15		
DOUG FIR		35.0	6.2	186	199	211					
WHEMLOCK		329.5	58.2	2	5	8					
TOTAL		26.8	4.7	194	204	213	29	7	3		
CL	68.1	COEFF		NET BF/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15		
DOUG FIR		36.5	6.5	31,653	33,836	36,018					
WHEMLOCK		337.5	59.6	228	565	902					
TOTAL		31.4	5.6	32,491	34,401	36,310	39	10	4		
CL	68.1	COEFF		NET CUFT FT/ACRE				# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15		
DOUG FIR		36.3	6.4	7,593	8,114	8,635					
WHEMLOCK		338.2	59.7	60	150	239					
TOTAL		30.7	5.4	7,815	8,264	8,712	38	9	4		

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																		
T09S R04E S22 TyCC82.00						Project: GBS1										Page 1						
						Acres 82.00										Date 4/15/2024						
																Time 4:27:38PM						
S So Gr Spp T rt ad		%	Bd. Ft. per Acre Def% Gross Net			Total Net MBF	Percent of Net Board Foot Volume								Average Log				Logs Per /Acre			
		Net BdFt					Ln	Dia In	Bd Ft	CF/ Lf	Log Scale Dia.				Log Length							
											4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99				
DF	DO 2M	60	4.6	21,353	20,379	1,671	83 17				100				40	14	285	1.58	71.6			
DF	DO 3M	33	4.5	11,833	11,305	927	100				1	3	2	94	39	9	114	0.76	99.4			
DF	DO 4M	7	4.0	2,241	2,152	176	91	9					37	30	16	16	23	5	24	0.33	88.3	
DF Totals		98	4.5	35,427	33,836	2,775	6	34	50	10	3	3	2	93	34	9	131	0.93	259.2			
WH	DO 2M	40	231 231			19	100				49 51				32	13	205	1.29	1.1			
WH	DO 3M	45	254 254			21	100				100				39	8	101	0.67	2.5			
WH	DO 4M	15	16.8	95	79	7	73	27					22	28	22	27	23	5	22	0.44	3.7	
WH Totals		2	2.8	581	565	46	10	49	41					3	24	3	70	30	8	77	0.69	7.3
Totals			4.5	36,008	34,401	2,821	6	34	50	10	3	3	2	92	34	9	129	0.92	266.5			

TC		PSTNDSUM										Stand Table Summary										Page		1	
																						Date:		4/15/2024	
		T09S R04E S22 TyCC				82.00				Project		GBS1				Time:		4:27:38PM							
						Acres				82.00				Grown Year:											
S Sp	T	Sample		Tot		Trees/		BA/		Logs		Average Log		Net		Net		T o t a l s							
		DBH	Trees	FF 16'	Av Ht	Acres	Acres	Acres	Net Cu.Ft.	Net Bd.Ft.	Tons/ Acre	Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF									
DF		10	1	86	59	4.044	2.21	4.04	10.1	38.4	1.17	41	155	96	34	13									
DF		13	1	90	96	2.393	2.21	4.79	15.0	57.6	2.04	72	276	168	59	23									
DF		14	1	88	95	2.063	2.21	4.13	18.1	72.0	2.13	75	297	175	61	24									
DF		15	3	87	96	5.392	6.62	10.78	21.2	94.4	6.52	229	1,018	535	188	83									
DF		16	7	89	102	11.058	15.44	23.70	23.7	94.1	16.00	561	2,229	1,312	460	183									
DF		17	7	89	110	9.795	15.44	26.59	22.8	90.9	17.24	605	2,418	1,414	496	198									
DF		18	12	89	114	15.020	26.47	37.57	27.5	107.1	29.42	1,032	4,026	2,412	846	330									
DF		19	10	89	118	11.202	22.06	31.37	28.9	120.0	25.81	906	3,764	2,117	743	309									
DF		20	15	89	118	15.217	33.08	43.63	31.8	131.9	39.56	1,388	5,756	3,244	1,138	472									
DF		21	10	89	124	9.170	22.06	27.51	35.5	154.2	27.85	977	4,243	2,283	801	348									
DF		22	5	88	126	4.148	11.03	11.61	42.2	185.8	13.95	489	2,157	1,144	401	177									
DF		23	3	88	117	2.293	6.62	6.12	45.5	194.4	7.93	278	1,189	650	228	97									
DF		24	5	88	120	3.541	11.03	10.62	45.1	188.2	13.65	479	1,999	1,119	393	164									
DF		25	2	86	125	1.294	4.41	3.88	51.7	212.8	5.72	201	826	469	165	68									
DF		26	2	90	136	1.196	4.41	4.19	51.8	237.3	6.18	217	994	507	178	81									
DF		27	4	89	119	2.219	8.82	6.10	59.1	257.5	10.27	360	1,571	842	296	129									
DF		28	1	88	123	.516	2.21	1.55	62.3	265.6	2.75	96	411	225	79	34									
DF		34	1	90	130	.350	2.21	1.05	102.3	483.2	3.06	107	507	251	88	42									
DF		Totals	90	89	112	100.912	198.51	259.22	31.3	130.5	231.25	8,114	33,836	18,962	6,653	2,775									
WH		12	1	90	69	1.337	1.05	2.67	10.0	40.0	.86	27	107	70	22	9									
WH		16	1	90	87	.752	1.05	1.50	22.8	90.0	1.10	34	135	90	28	11									
WH		18	1	89	89	.594	1.05	1.19	31.0	115.0	1.18	37	137	97	30	11									
WH		19	1	90	87	.533	1.05	1.07	32.9	125.0	1.12	35	133	92	29	11									
WH		21	1	88	92	.437	1.05	.87	19.2	60.0	.54	17	52	44	14	4									
WH		Totals	5	90	81	3.654	5.25	7.31	20.5	77.3	4.80	150	565	393	123	46									
Totals		95	89	111	104.566	203.76	266.52	31.0	129.1	236.04	8,264	34,401	19,355	6,776	2,821										

TC		PLOGSTVB		Log Stock Table - MBF																	
T09S R04E S22 TyCC82.00				Project: Acres		GBS1 82.00		Page 1 Date 4/15/2024 Time 4:27:37PM													
Spp	S T	So rt	Gr de	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches												
									2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+	
DF		DO	2M	38	25	12.7	22	.8							22						
DF		DO	2M	40	1,726	4.4	1,649	59.4						554	670	397		28			
DF		DO	3M	16	6	4.0	5	.2					5								
DF		DO	3M	26	16	4.0	15	.5				8	7								
DF		DO	3M	28	10	13.6	9	.3					9								
DF		DO	3M	30	9	12.7	8	.3					8								
DF		DO	3M	32	14	12.0	12	.4			12										
DF		DO	3M	34	3	4.0	3	.1				3									
DF		DO	3M	36	20	4.0	20	.7			6	14									
DF		DO	3M	38	23	4.0	22	.8			15	6									
DF		DO	3M	40	869	4.2	833	30.0			45	290	498								
DF			DO	4M	12	9	4.0	9	.3		7	2									
DF			DO	4M	13	3	4.0	3	.1		3										
DF			DO	4M	14	2	4.0	2	.1		2										
DF	DO		4M	15	6	4.0	5	.2		5											
DF	DO		4M	16	16	4.0	15	.6		7		8									
DF	DO		4M	17	4	4.0	3	.1		3											
DF	DO		4M	18	8	4.0	8	.3		8											
DF	DO		4M	19	5	4.0	5	.2		5											
DF	DO		4M	20	16	4.0	15	.5		15											
DF	DO		4M	23	2	4.0	2	.1		2											
DF	DO		4M	24	10	4.0	10	.4		4	6										
DF	DO		4M	25	2	4.0	2	.1		2											
DF	DO		4M	26	9	4.0	9	.3		9											
DF	DO		4M	27	11	4.0	11	.4		11											
DF	DO		4M	28	8	4.0	8	.3		8											
DF	DO		4M	30	12	4.0	12	.4		12											
DF	DO		4M	31	5	4.0	5	.2		5											
DF	DO		4M	32	4	4.0	4	.1		4											
DF	DO		4M	33	8	4.0	7	.3		7											
DF	DO		4M	35	13	4.0	13	.5		13											
DF	DO	4M	36	6	4.0	6	.2		6												
DF	DO	4M	37	5	4.0	5	.2		5												
DF	DO	4M	38	4	4.0	4	.1		4												
DF	DO	4M	40	15	4.0	14	.5		14												
DF		Totals			2,905	4.5	2,775	98.4		161	86	330	527	554	670	419		28			
WH		DO	2M	24	9		9	19.8							9						

TC		PLOGSTVB		Log Stock Table - MBF																	
T09S R04E S22 TyCC82.00					Project: GBS1										Page 2						
					Acres 82.00										Date 4/15/2024						
															Time 4:27:37PM						
Spp	S T	So rt	Gr de	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches												
									2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+	
WH		DO	2M	40	10		10	21.0				10									
WH		DO	3M	38	12		12	25.1		8	4										
WH		DO	3M	40	9		9	20.0				9									
WH		DO	4M	12	1		1	3.1		1											
WH		DO	4M	30	2		2	4.0		2											
WH		DO	4M	32	1		1	3.2		1											
WH		DO	4M	40	3	42.9	2	3.8		2											
WH		Totals			48	2.8	46	1.6		5	9	4	9	10	9						
Total		All Species			2,953	4.5	2,821	100.0		165	96	333	536	564	679	419		28			

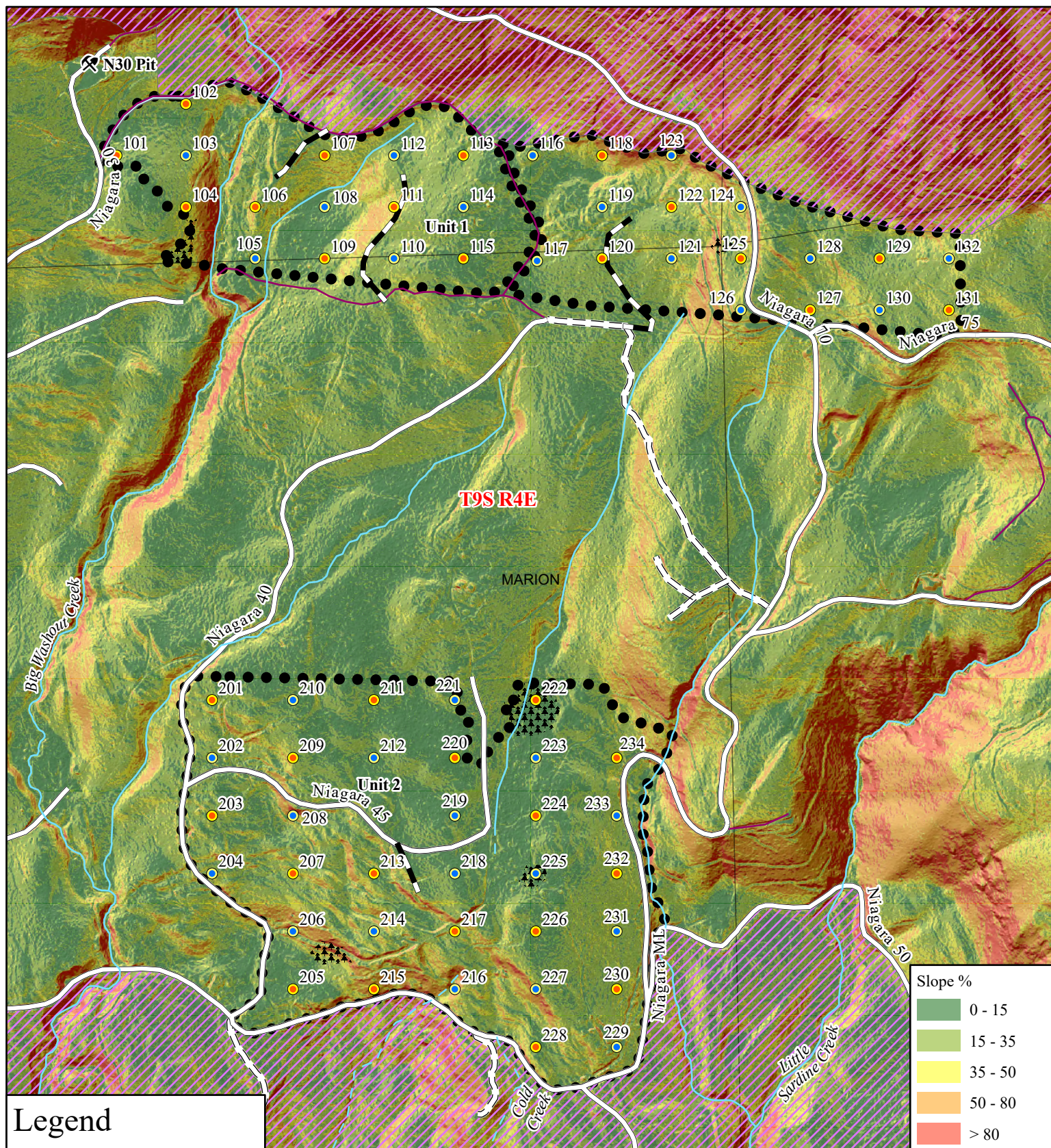
PROJECT STATISTICS							PAGE	1			
PROJECT							DATE	4/15/2024			
TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt		
09S	04E	22	U2	CC	104.00	33	226	S	W		
				TREES	ESTIMATED	PERCENT					
				PER PLOT	TOTAL	SAMPLE					
					TREES	TREES					
TOTAL			33	226	6.8						
CRUISE			16	107	6.7	15,791	.7				
DBH COUNT											
REFOREST											
COUNT			17	118	6.9						
BLANKS											
100 %											
STAND SUMMARY											
SAMPLE			TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
TREES			/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUG FIR			100	131.9	17.3	110	51.9	215.9	37,469	37,396	8,864
SNAG			4	11.5	12.1	67	2.6	9.2			
WHEMLOCK			3	8.4	9.4	49	1.3	4.1	386	386	81
TOTAL			107	151.8	16.6	103	56.2	229.2	37,855	37,782	8,945
CONFIDENCE LIMITS OF THE SAMPLE											
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR											
CL	68.1	COEFF	SAMPLE TREES - BF					# OF TREES REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15	
DOUG FIR			49.2	4.9	322	339	355				
SNAG											
WHEMLOCK			86.6	59.9	24	60	96				
TOTAL			56.3	5.4	301	318	336	127	32	14	
CL	68.1	COEFF	SAMPLE TREES - CF					# OF TREES REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15	
DOUG FIR			45.3	4.5	76	80	83				
SNAG											
WHEMLOCK			101.4	70.2	4	13	23				
TOTAL			52.8	5.1	71	75	79	111	28	12	
CL	68.1	COEFF	TREES/ACRE					# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15	
DOUG FIR			20.6	3.6	127	132	137				
SNAG			212.9	37.0	7	12	16				
WHEMLOCK			287.9	50.1	4	8	13				
TOTAL			31.9	5.6	143	152	160	41	10	5	
CL	68.1	COEFF	BASAL AREA/ACRE					# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15	
DOUG FIR			19.5	3.4	209	216	223				
SNAG			189.5	33.0	6	9	12				
WHEMLOCK			273.4	47.6	2	4	6				
TOTAL			17.8	3.1	222	229	236	13	3	1	
CL	68.1	COEFF	NET BF/ACRE					# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15	
DOUG FIR			22.9	4.0	35,909	37,396	38,883				
SNAG											
WHEMLOCK			282.2	49.1	196	386	575				
TOTAL			22.3	3.9	36,316	37,782	39,248	20	5	2	
CL	68.1	COEFF	NET CUFT FT/ACRE					# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5		10	15	
DOUG FIR			22.1	3.8	8,523	8,864	9,204				
SNAG											

TC PSTATS				<u>PROJECT STATISTICS</u>				PAGE	2	
				PROJECT		GBS1		DATE	4/15/2024	
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt
09S	04E	22	U2	CC		104.00	33	226	S	W
CL	68.1		COEFF	NET CUFT FT/ACRE				# OF PLOTS REQ.		INF. POP.
SD:	1.00		VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
WHEMLOCK			292.7	50.9	40	81	122			
TOTAL			21.6	3.8	8,609	8,945	9,280	19	5	2

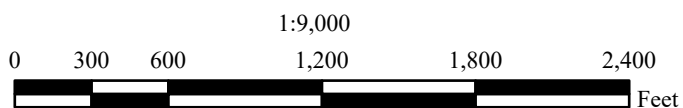
TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																	
T09S R04E S22 TyCC104.00						Project: GBS1										Page 1					
						Acres 104.00										Date 4/15/2024					
																Time 4:09:07PM					
S So Gr Spp T rt ad		% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent of Net Board Foot Volume								Average Log				Logs Per /Acre		
		Def%	Gross	Net	Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft	CF/ Lf					
					4-5		6-11	12-16	17+	12-20	21-30	31-35					36-99				
DF	DO 2M	49	.2	18,726	18,693	1,944	90 10				100				40	13	261	1.45	71.7		
DF	DO 3M	42	.3	15,589	15,549	1,617	100				2 98				39	9	108	0.68	143.7		
DF	DO 4M	9		3,155	3,155	328	97	3			30	19	17	34	24	5	25	0.29	124.5		
DF Totals		99	.2	37,469	37,396	3,889	8	42	45	5	3	2	2	94	34	8	110	0.77	339.8		
WH DO 3M		34		133	133	14	100				100				40	8	90	0.57	1.5		
WH DO 4M		66		253	253	26	100				100				25	5	30	0.22	8.4		
WH Totals		1		386	386	40	66	34			66 34				27	5	39	0.30	9.9		
Totals			0.2	37,855	37,782	3,929	9	42	45	5	3	2	2	93	34	8	108	0.76	349.7		

TC		PSTNDSUM										Stand Table Summary										Page		1	
																						Date:		4/15/2024	
T09S R04E S22 TyCC		104.00		Project		GBS1		Time:		4:09:07PM		Acres		104.00		Grown Year:									
S Sp	T	Sample		Tot		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net		Tons/ Acre	Cu.Ft. Acre	Net Bd.Ft. Acre	T o t a l s									
		DBH	Trees	FF 16'	Av Ht				Net Cu.Ft.	Net Bd.Ft.	Tons	Cunits				MBF									
DF		10	1	87	96	3.959	2.16	3.96	12.8	60.0	1.44	51	238	150	53	25									
DF		12	2	86	93	5.498	4.32	11.00	11.6	47.5	3.63	127	522	378	133	54									
DF		13	4	88	100	9.370	8.64	18.74	15.2	61.2	8.10	284	1,148	842	296	119									
DF		14	5	87	110	10.099	10.80	22.22	18.2	79.1	11.50	403	1,757	1,196	420	183									
DF		15	9	86	104	15.835	19.43	33.43	21.3	87.4	20.32	713	2,921	2,113	741	304									
DF		16	10	87	119	15.464	21.59	38.66	22.2	95.2	24.51	860	3,680	2,549	895	383									
DF		17	9	88	123	12.328	19.43	36.99	22.3	95.6	23.47	824	3,534	2,441	857	368									
DF		18	19	87	116	23.215	41.02	67.20	25.0	99.3	47.81	1,678	6,671	4,972	1,745	694									
DF		19	9	88	121	9.870	19.43	29.61	28.4	118.9	23.94	840	3,520	2,490	874	366									
DF		20	9	87	122	8.907	19.43	26.72	31.6	132.6	24.04	843	3,543	2,500	877	368									
DF		21	5	88	126	4.488	10.80	13.47	35.9	162.7	13.79	484	2,190	1,434	503	228									
DF		22	5	87	124	4.090	10.80	12.27	38.6	168.7	13.49	473	2,069	1,403	492	215									
DF		23	2	81	122	1.497	4.32	4.49	41.1	173.3	5.26	185	778	547	192	81									
DF		24	8	85	127	5.498	17.27	15.81	49.3	214.8	22.21	779	3,395	2,309	810	353									
DF		25	1	89	138	.633	2.16	1.90	57.4	270.0	3.11	109	513	323	113	53									
DF		26	1	80	139	.586	2.16	1.76	58.6	233.3	2.93	103	410	305	107	43									
DF		27	1	88	137	.543	2.16	1.63	65.6	310.0	3.05	107	505	317	111	53									
DF		Totals	100	87	115	131.881	215.92	339.84	26.1	110.0	252.61	8,864	37,396	26,271	9,218	3,889									
WH		8	1	86	44	3.890	1.36	3.89	5.2	30.0	.65	20	117	68	21	12									
WH		9	1	87	36	3.074	1.36	3.07	5.8	30.0	.57	18	92	60	19	10									
WH		13	1	91	88	1.473	1.36	2.95	14.5	60.0	1.37	43	177	142	44	18									
WH		Totals	3	87	49	8.437	4.07	9.91	8.2	38.9	2.59	81	386	270	84	40									
SN		8	1	84	58	6.565	2.29																		
SN		14	1	85	67	2.144	2.29																		
SN		16	1	89	94	1.641	2.29																		
SN		19	1	87	83	1.164	2.29																		
SN		Totals	4	85	67	11.514	9.17																		
Totals		107	87	107		151.832	229.16	349.75	25.6	108.0	255.20	8,945	37,782	26,541	9,302	3,929									

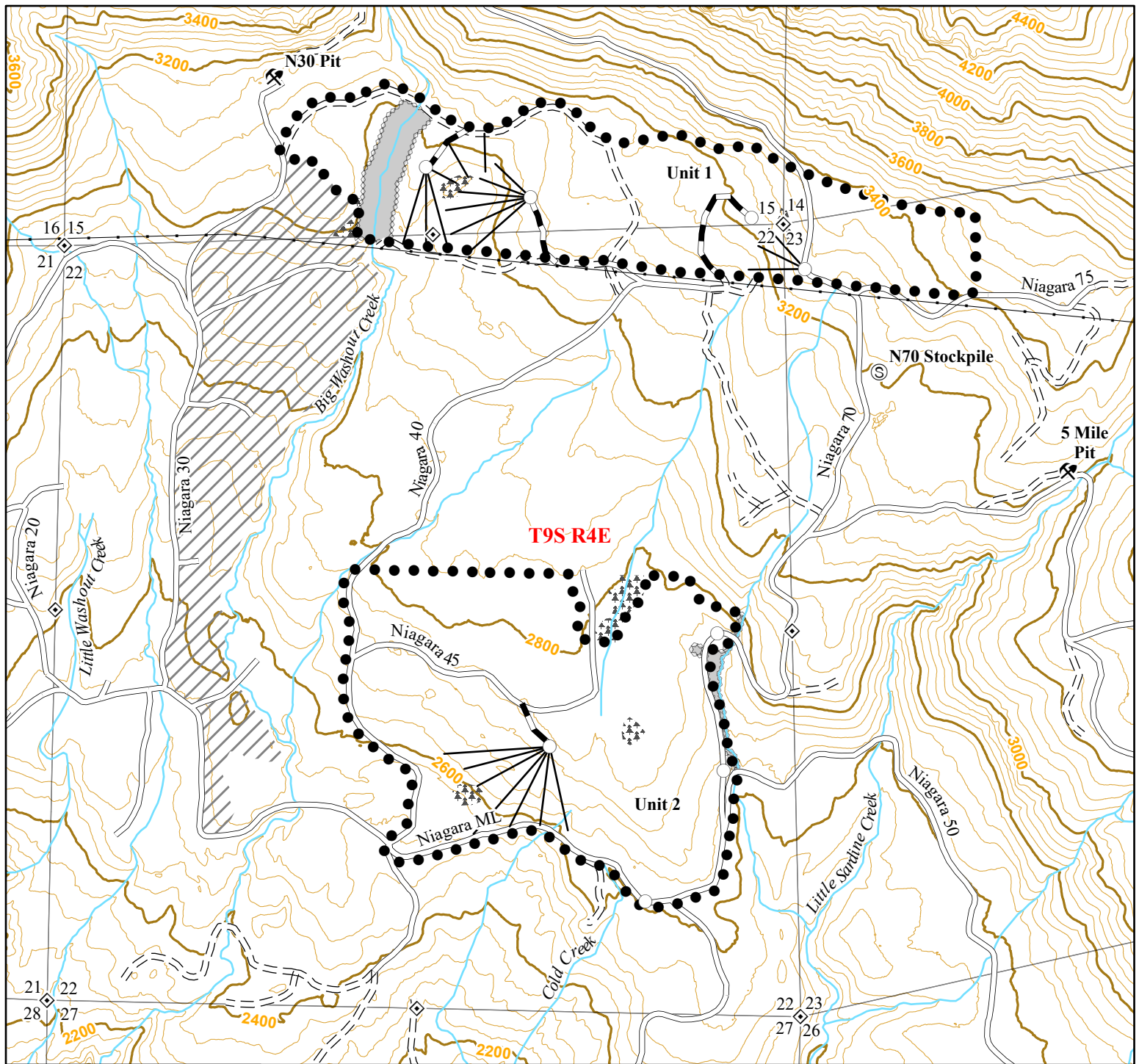
TC		PLOGSTVB		Log Stock Table - MBF																	
T09S R04E S22 TyCC104.00				Project: GBS1										Page 1							
				Acres 104.00										Date 4/15/2024							
														Time 4:09:07PM							
Spp	S T	So rt	Gr de	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches												
									2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+	
DF		DO	2M	36	30	3.1	29	.7							29						
DF		DO	2M	38	28		28	.7							28						
DF		DO	2M	40	1,890		1,887	48.5						1080	435	372					
DF		DO	3M	34	36		36	.9			36										
DF		DO	3M	36	39		39	1.0			39										
DF		DO	3M	37	13		13	.3			13										
DF		DO	3M	38	57		57	1.5			29	28									
DF		DO	3M	40	1,476		1,472	37.9			202	564	706								
DF		DO	4M	12	25		25	.6		25											
DF		DO	4M	14	11		11	.3		11											
DF		DO	4M	16	12		12	.3		12											
DF		DO	4M	18	21		21	.5		10	4	6									
DF		DO	4M	20	31		31	.8		31											
DF		DO	4M	24	30		30	.8		30											
DF		DO	4M	26	14		14	.4		14											
DF		DO	4M	28	15		15	.4		15											
DF		DO	4M	30	3		3	.1		3											
DF		DO	4M	32	21		21	.5		21											
DF		DO	4M	34	34		34	.9		34											
DF		DO	4M	36	25		25	.6		25											
DF		DO	4M	38	57		57	1.5		57											
DF		DO	4M	40	30		30	.8		30											
DF		Totals			3,897		3,889	99.0		317	323	598	706	1080	492	372					
WH		DO	3M	40	14		14	34.4			14										
WH		DO	4M	24	10		10	23.9		10											
WH		DO	4M	26	17		17	41.7		17											
WH		Totals			40		40	1.0		26	14										
Total		All Species			3,937		3,929	100.0		344	323	612	706	1080	492	372					



Green Basin Split Cruise Map



03/07/2024



Legend

- Timber Sale Boundary
- Stream Buffer
- Reserved Tree Area
- Reforestation Area
- Surfaced Road
- Unsurfaced Road
- New Construction
- Stream - NonFish
- Stockpile
- Rockpit
- Land Survey Monument
- Landing
- Cable Corridor

LOGGING PLAN

OF TIMBER SALE CONTRACT NO. NC-341-2025-W01104-01
 GREEN BASIN SPLIT
 PORTIONS OF SECTIONS 14, 15, 22 & 23, T9S, R4E, W.M.
 MARION COUNTY, OREGON

This product is for informational use and may not have
 been prepared for or be suitable for legal, engineering
 or survey purposes.

TRACTOR CABLE		
UNIT	ACRES	ACRES
1 (MC)	76	5
2 (MC)	90	14
3 (R/W)	1	0
TOTAL	167	19

1:12,000



06/12/2024