

**STATE OF
COLORADO****Gagnon - DNR, Nikie <nikie.gagnon@state.co.us>**

Nelson Mining Resources M2005059 Notice of Surety Increase

1 message

Gagnon - DNR, Nikie <nikie.gagnon@state.co.us>

Wed, Oct 16, 2024 at 9:49 AM

To: Greg Geras <GregG@asphaltspecialties.com>

Cc: Sara Stevenson-Benn - DNR <sara.stevenson-benn@state.co.us>

Hi Greg.

Please see the attached Notice of Surety Increase for the Nelson Mining Resource site. You have 60 days from the date of the notice to submit the new financial warranty.

Please reach out to the Division if you have any questions on this.

Kind regards,

Nikie Gagnon
Environmental Protection Specialist



COLORADO
Division of Reclamation,
Mining and Safety
Department of Natural Resources

Cell: 720.527.1640

Physical: 1313 Sherman Street, Room 215, Denver, CO 80203

Address for FedEx, UPS, or hand delivery:

DRMS Room 215, 1001 E 62nd Ave, Denver, CO 80216

nikie.gagnon@state.co.us | <https://www.drms.colorado.gov>**Nelson Mining Resource_M2005059_Notice of Surety Increase.pdf**

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COLORADO
Division of Reclamation,
Mining and Safety
Department of Natural Resources

October 16, 2024

Greg Geras
Asphalt Specialties Co., Inc.
345 W. 62nd Ave.
Denver, CO 80216

**Re: Nelson Mining Resource - File No. M-2005-059, Asphalt Specialties Co., Inc.
Notice of Surety Increase (SI-2)**

Dear Greg Geras:

On October 16, 2024 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$1,887,769.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$790,603.49. Please see the August 21, 2024 inspection report for details regarding why this surety increase is required.

On October 16, 2024, the Division ordered amendment of the current Financial Warranty or submittal of a new Financial Warranty reflecting the increase, within 60 days.

Please make arrangements with Sara M. Stevenson-Benn at the Division's Denver office for submittal of the financial warranty. Any other questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Sara M. Stevenson-Benn by telephone at (303) 866-3567, or by email at Sara.stevenson-benn@state.co.us.

The Permittee for this site may be scheduled for a Formal Board Hearing for possible revocation of the permit if the amount of any increased Financial Warranty has not been provided by December 15, 2024.

If you have any questions, please contact me by telephone at (720) 527-1640, or by email at nikie.gagnon@state.co.us.

Sincerely,

Nikie C. Gagnon
Environmental Protection Specialist

Enclosures: Financial Warranty Cost Estimate

Ec: Jared Ebert, DRMS
Sara Stevenson-Benn, DRMS



COST SUMMARY WORK

Task description: _____

Site: Nelson Mining Resource

Permit Action: 2024 Inspection

Permit/Job#: M2005059

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 9/23/2024

County: Weld

Filename: M059-000

User: NCG

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Backfill 3 Well Pads to 150' radius	SCRAPER1	1	132.92	\$195,631
002	QA/QC Liner Replacement	NA	1	120.00	\$15,600
003	Backfill 5.5 ac in NE corner of permit	SCRAPER1	1	157.06	\$230,770
004	Rip/condition liner material from pit floor	DOZER	2	560.47	\$387,837
005	Place Liner Material	SCRAPER1	1	238.15	\$434,971
007	Replace Topsoil	SCRAPER1	1	14.87	\$22,358
008	Revegetate	REVEGE	1	8.00	\$27,039
009	Mob/Demob	MOBILIZE	1	8.80	\$13,180
010	Dewater pit - 1000 ac ft	PUMPING	1	6,421.54	\$241,643
<u>SUBTOTALS:</u>				7661.81	\$1,569,029

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$31,694
Performance bond:	1.05	Total =	\$16,475
Job superintendent:	80.00	Total =	\$6,342
Profit:	10.00	Total =	\$156,903

TOTAL O & P = \$211,414

CONTRACT AMOUNT (direct + O & P) = \$1,780,443

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	<u>\$500</u>	Total =	<u>\$500</u>
Engineering work and/or contract/bid preparation:	<u>1.00</u>	Total =	<u>\$17,804</u>
Reclamation management and/or administration:	<u>5.00</u>		<u>\$89,022</u>

CONTINGENCY: 0.00 Total = \$0

TOTAL INDIRECT COST = \$318,740

TOTAL BOND AMOUNT (direct + indirect) = \$1,887,769

SCRAPER TEAM WORKTask description: Backfill 3 Well Pads to 150' radiusSite: Nelson Mining ResourcePermit Action: 2024 InspectionPermit/Job#: M2005059**PROJECT IDENTIFICATION**Task #: 001State: ColoradoAbbreviation: NoneDate: 9/23/2024County: WeldFilename: M2005059User: NCGAgency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

	Equipment Description
-Scraper:	Cat 627G w/push-pull
-Dozer:	Cat D8T - 8SU
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance -Motor Grader:	NA
-Water Truck:	Water Tanker, 2,500 Gal.

Cost Breakdown:

	Scraper Work Team		Support Equipment		Maintenance Equipment	
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	NA	NA	100
Ownership cost/hour:	\$234.09	\$173.32	NA	NA	NA	\$11.65
Operating cost/hour:	\$265.71	\$109.71	NA	NA	NA	\$22.45
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	NA	NA	\$0.00
Ripper op. cost/hour:	NA	\$0.00	NA	NA	NA	\$0.00
Operator cost/hour:	\$57.52	\$40.04	NA	NA	NA	\$0.00
Unit Subtotals:	\$557.32	\$323.07	NA	NA	NA	\$34.10
Number of Units:	2	1	0	0	0	1
Group Subtotals:	Work:	\$1,437.71	Support:	\$0.00	Maint:	\$34.10

Total work team cost/hour: \$1,471.81**MATERIAL QUANTITIES**Initial volume: 115,000

CCY

Swell factor: 1.000Loose volume: 115,000

LCY

Source of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Scraper Bowl (volume) Basis:

Material weight: 2,700 lbs/LCY
 Material description: Sand and clay - Loose
 Rated Payload: 52,800 pounds
 Payload Capacity: 19.56 LCY

Struck Volume: 15.70 LCY
 Heaped Volume: 22.00 LCY
 Average Volume: 18.85 LCY
 Adjusted Capacity: 18.85 LCY

Cycle Time:

Scraper Loading Time: 0.90 Minutes
 Maneuver and Spread Time: 0.60 Minutes

Job Condition Correction:

Site Altitude: 4800 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Travel Time:Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	2.00	3.00	5.00	2218	0.40

Haul Time: 0.40 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	-2.00	3.00	1.00	2913	0.27

Return Time: 0.27 minutesTotal Scraper team cycle time: 2.17 minutesAdjusted for job conditions: 865.19 LCY/HourSelected Number of Scrapers: 2 Scraper(s)Adjusted single scraper team (unit) hourly production: 865.19 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 865.19 LCY/HourUnadjusted unit production/hour: 1,042.40 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s)Total job time: 132.92 HoursUnit cost: \$1.701 /LCYTotal job cost: \$195,631

SCRAPER TEAM WORKTask description: Backfill 5.5 ac in NE corner of permitSite: Nelson Mining ResourcePermit Action: 2024 InspectionPermit/Job#: M2005059**PROJECT IDENTIFICATION**Task #: 003State: ColoradoAbbreviation: NoneDate: 9/23/2024County: WeldFilename: M2005059User: NCGAgency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 637G
-Dozer:	NA
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance -Motor Grader:	NA
-Water Truck:	NA

Cost Breakdown:

	Scraper Work Team		Support Equipment		Maintenance Equipment	
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	NA	NA	NA	NA	NA
Ownership cost/hour:	\$329.66	NA	NA	NA	NA	NA
Operating cost/hour:	\$347.48	NA	NA	NA	NA	NA
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	NA	NA	NA	NA
Ripper op. cost/hour:	NA	NA	NA	NA	NA	NA
Operator cost/hour:	\$57.52	NA	NA	NA	NA	NA
Unit Subtotals:	\$734.66	NA	NA	NA	NA	NA
Number of Units:	2	0	0	0	0	0
Group Subtotals:	Work:	\$1,469.32	Support:	\$0.00	Maint:	\$0.00

Total work team cost/hour: \$1,469.32**MATERIAL QUANTITIES**Initial volume: 215,000

CCY

Swell factor: 1.000Loose volume: 215,000

LCY

Source of estimated volume: OperatorSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Scraper Bowl (volume) Basis:

Material weight: 2,700 lbs/LCY
 Material description: Sand and clay - Loose
 Rated Payload: 81,600 pounds
 Payload Capacity: 30.22 LCY

Struck Volume: 24.00 LCY
 Heaped Volume: 34.00 LCY
 Average Volume: 29.00 LCY
 Adjusted Capacity: 29.00 LCY

Cycle Time:

Scraper Loading Time: 0.80 Minutes
 Maneuver and Spread Time: 0.60 Minutes

Job Condition Correction:

Site Altitude: 4800 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Travel Time:Road Condition: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	2.00	4.00	6.00	1477	0.42

Haul Time: 0.42 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	-2.00	4.00	2.00	2960	0.29

Return Time: 0.29 minutes

Total Scraper team cycle time: 2.11 minutes
 Adjusted for job conditions: 684.45 LCY/Hour
 Selected Number of Scrapers: 2 Scraper(s)
 Adjusted single scraper team (unit) hourly production: 1,368.91 LCY/Hour
 Adjusted multiple scraper team (fleet) hourly production: 1,368.91 LCY/Hour

Unadjusted unit production/hour: 824.64 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s) Total job time: 157.06 HoursUnit cost: \$1.073 /LCY Total job cost: \$230,770

SCRAPER TEAM WORKTask description: **Place Liner Material**Site: **Nelson Mining Resource**Permit Action: **2024 Inspection**Permit/Job#: **M2005059****PROJECT IDENTIFICATION**Task #: **005**State: **Colorado**Abbreviation: **None**Date: **9/23/2024**County: **Weld**Filename: **M2005059**User: **NCG**Agency or organization name: **DRMS****HOURLY EQUIPMENT**COSTShift basis: **1 per day**

Equipment Description	
-Scraper:	Cat 637G
-Dozer:	NA
Support Equipment -Load Area:	NA
-Dump Area:	Cat D8T - 8SU
Road Maintenance -Motor Grader:	NA
-Water Truck:	Water Tanker, 2,500 Gal.

Cost Breakdown:

	Scraper Work Team		Support Equipment		Maintenance Equipment	
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	NA	NA	100	NA	100
Ownership cost/hour:	\$329.66	NA	NA	\$173.32	NA	\$11.65
Operating cost/hour:	\$347.48	NA	NA	\$109.71	NA	\$22.45
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	NA	\$0.00	NA	\$0.00
Ripper op. cost/hour:	NA	NA	NA	\$0.00	NA	\$0.00
Operator cost/hour:	\$57.52	NA	NA	\$40.04	NA	\$0.00
Unit Subtotals:	\$734.66	NA	NA	\$323.07	NA	\$34.10
Number of Units:	2	0	0	1	0	1
Group Subtotals:	Work:	\$1,469.32	Support:	\$323.07	Maint:	\$34.10

Total work team cost/hour: **\$1,826.49****MATERIAL QUANTITIES**Initial volume: **326,000**

CCY

Swell factor: **1.000**Loose volume: **326,000**

LCY

Source of estimated volume: **Operator**Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight: **2,700 lbs/LCY**
 Material description: **Sand and clay - Loose**
 Rated Payload: **81,600 pounds**
 Payload Capacity: **30.22 LCY**

Struck Volume: **24.00** LCY
 Heaped Volume: **34.00** LCY
 Average Volume: **29.00** LCY
 Adjusted Capacity: **29.00** LCY

Cycle Time:

Scraper Loading Time: 0.80 Minutes
 Maneuver and Spread Time: 0.60 Minutes

Job Condition Correction:

Site Altitude: 4800 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Travel Time:Road Condition: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	2.00	4.00	6.00	1477	0.42

Haul Time: 0.42 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	-2.00	4.00	2.00	2960	0.29

Return Time: 0.29 minutesTotal Scraper team cycle time: 2.11 minutesAdjusted for job conditions: 684.45 LCY/HourSelected Number of Scrapers: 2 Scraper(s)Adjusted single scraper team (unit) hourly production: 1,368.91 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 1,368.91 LCY/HourUnadjusted unit production/hour: 824.64 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s) Total job time: 238.15 HoursUnit cost: \$1.334 /LCY Total job cost: \$434,971

SCRAPER TEAM WORKTask description: Replace TopsoilSite: Nelson Mining ResourcePermit Action: 2024 InspectionPermit/Job#: M2005059**PROJECT IDENTIFICATION**Task #: 007State: ColoradoAbbreviation: NoneDate: 9/23/2024County: WeldFilename: M2005059User: NCGAgency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 637G
-Dozer:	NA
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance -Motor Grader:	NA
-Water Truck:	Water Tanker, 2,500 Gal.

Cost Breakdown:

	Scraper Work Team		Support Equipment		Maintenance Equipment	
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	NA	NA	NA	NA	100
Ownership cost/hour:	\$329.66	NA	NA	NA	NA	\$11.65
Operating cost/hour:	\$347.48	NA	NA	NA	NA	\$22.45
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	NA	NA	NA	\$0.00
Ripper op. cost/hour:	NA	NA	NA	NA	NA	\$0.00
Operator cost/hour:	\$57.52	NA	NA	NA	NA	\$0.00
Unit Subtotals:	\$734.66	NA	NA	NA	NA	\$34.10
Number of Units:	2	0	0	0	0	1
Group Subtotals:	Work:	\$1,469.32	Support:	\$0.00	Maint:	\$34.10

Total work team cost/hour: \$1,503.42**MATERIAL QUANTITIES**Initial volume: 20,651

CCY

Swell factor: 1.000Loose volume: 20,651

LCY

Source of estimated volume: OperatorSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight: 1,600 lbs/LCY
 Material description: Top Soil
 Rated Payload: 81,600 pounds
 Payload Capacity: 51.00 LCY

Struck Volume: 24.00 LCY
 Heaped Volume: 34.00 LCY
 Average Volume: 29.00 LCY
 Adjusted Capacity: 29.00 LCY

Cycle Time:

Scraper Loading Time: 0.80 Minutes
 Maneuver and Spread Time: 0.60 Minutes

Job Condition Correction:

Site Altitude: 4800 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Travel Time:Road Condition: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	2.00	4.00	6.00	1477	0.39

Haul Time: 0.39 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	-2.00	4.00	2.00	2960	0.29

Return Time: 0.29 minutes

Total Scraper team cycle time: 2.08 minutes
 Adjusted for job conditions: 694.33 LCY/Hour
 Selected Number of Scrapers: 2 Scraper(s)
 Adjusted single scraper team (unit) hourly production: 1,388.65 LCY/Hour
 Adjusted multiple scraper team (fleet) hourly production: 1,388.65 LCY/Hour

Unadjusted unit production/hour: 836.54 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s) Total job time: 14.87 HoursUnit cost: \$1.083 /LCY Total job cost: \$22,358

BULLDOZER WORKTask description: **Rip/condition liner material from pit floor**Site: **Nelson Mining Resource**Permit Action: 2024 InspectionPermit/Job#: M2005059**PROJECT IDENTIFICATION**Task #: 004State: ColoradoAbbreviation: NoneDate: 9/23/2024County: WeldFilename: M2005059User: NCGAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: 1-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$173.32	NA
Operating Cost/Hour:	\$109.71	100
Ripper own. Cost/Hour:	\$13.69	NA
Ripper op. Cost/Hour:	\$9.24	100
Operator Cost/Hour:	\$40.04	NA
Total unit Cost/Hour:	\$346.00	
Total Fleet Cost/Hour:	\$691.99	

MATERIAL QUANTITIESInitial Volume: 156,000Swell factor: 1.000Loose volume: **156,000 LCY**Source of estimated volume: OperatorSource of estimated swell
factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 150 feetUnadjusted hourly
production: 634.3 LCY/hrMaterials consistency description: Rock, avg. ripped or blasted 0.7Average push
gradient: 5 %Average site altitude: 4,800 feetMaterial weight: 3,300 lbs/LCYWeight description: Decomposed rock - 75% Rock, 25% Earth**Job Condition Correction Factor****Source**

Operator Skill:	0.750	(AVG.)
Material consistency:	0.700	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.697	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.2194

Adjusted unit
production: 139.17 LCY/hr

Adjusted fleet
production: **278.34** LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)

Unit cost: \$2.486/LCY

Total job time: **560.47** Hours

Total job cost: **\$387,837**

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mob/Demob**Site: **Nelson Mining Resource**Permit Action: 2024 InspectionPermit/Job#: M2005059**PROJECT IDENTIFICATION**Task #: 009State: ColoradoAbbreviation: NoneDate: 9/23/2024County: WeldFilename: M2005059User: NCGAgency or organization name: DRMS**EQUIPMENT TRANSPORT RIG COST**Shift basis: 1 per dayCost Data Source: CRG DataTruck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,
400 HP (2ND HALF, 2006)Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT
TRAILER (25T, 50T, AND 100T)**Cost Breakdown:**

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$10.44	\$22.18	\$23.94
Operating Cost/Hour:	\$26.48	\$54.55	\$55.65
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$59.44	\$122.78	\$125.64

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat 627G w/push-pull	43.48	\$234.09	\$122.78	2	\$713.74	\$245.56	\$500.00
Cat D8T - 8SU	47.71	\$173.32	\$122.78	2	\$592.20	\$245.56	\$500.00

Subtotals: **\$1,305.94** **\$491.12** **\$1,000.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Water Tanker, 2,500 Gal.	\$34.10	1	\$34.10	\$34.10

Subtotals: **\$34.10** **\$34.10**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	LONGMONT	
Total one-way travel distance:	8.00	miles
Average Travel Speed:	40.00	mph

Total Non-Roadable Mob/Demob Cost *	\$13,166.34
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	\$13.64
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.20	0.20
Return Time (Hours):	0.20	0.20
Loading Time (Hours):	2.00	NA
Unloading Time (Hours):	2.00	NA
Subtotals:	4.40	0.40

JOB TIME AND COST

Total job time:	8.80	Hours
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Total job cost:	\$13,180
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PUMPING WORK

Task description: Dewater pit - 1000 ac ft

Site: Nelson Mining Resource

Permit Action: 2024 Inspection

Permit/Job#: M2005059

PROJECT IDENTIFICATION

Task #: 010

State: Colorado

Abbreviation: None

Date: 9/23/2024

County: Weld

Filename: M2005059

User: NCG

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

	Description	Quantity
Make and Model:	Centrifugal pump - 90M, 6 in.	1
Attachment 1:	Suction hose - 6 in. diam., 25 ft.	1
Attachment 2:	Discharge hose - 6 in. D., 25 ft.	2
Labor Unit 1:	Mechanic or Welder	0
Horsepower:	<u>65</u>	
Shift Basis:	<u>3 per day</u>	
Weight:	<u>1.05</u>	
	(US Tons)	

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$15.58</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$22.05</u>	<u>100</u>
Operator Cost/Hour:	<u>\$0.00</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$37.63</u>	
Total Fleet Cost/Hour:	<u>\$37.63</u>	

PUMPING QUANTITIES

Initial Pond Volume:	<u>1,000.00</u>		Conversion factor:	<u>325850.5800</u>
Final Pond Volume:	<u>325,850,580.00</u>	gallons		
Total Pond Inflow Surface Area:	<u>142,000</u>	Sq. ft.	Unit inflow rate in gph/sq. ft.:	<u>0.1758</u>
Total Pond Inflow Volume per Hour:	<u>24,963.60</u>	gallons		

Source of estimated volume: Operator/DRMS

PUMPING TIME

Maximum Pump Capacity:	<u>90,000</u>	gph/pump
Estimated Suction Head:	<u>20</u>	feet
Estimated Discharge Head:	<u>10</u>	feet
Total Head:	<u>30</u>	feet
CPB Pump Capacity:	<u>63,000</u>	gph/pump
Site Altitude:	<u>4,900</u>	feet
Adjusted Pumping Capacity:	<u>63,000</u>	gph
Initial Unadjusted Pumping Time:	<u>5,172.23</u>	hours
Inflow during Initial Pumping:	<u>129,117,516</u>	gallons
Net Unadjusted Pumping Time:	<u>7,221.72</u>	Hours
Altitude Adjustment Factor:	<u>0.9700</u>	(3% rule)
Pump Efficiency Factor:	<u>0.9167</u>	(55 min./hr.)
Total Adjusted Pumping Time:	<u>6,421.54</u>	hours

JOB TIME AND COST

Total job time: 6,421.54 Hours

Unit cost: \$0.000531 /Gallon

Total job cost: \$241,643

REVEGETATION WORKTask description: RevegetateSite: Nelson Mining ResourcePermit Action: 2024 InspectionPermit/Job#: M2005059PROJECT IDENTIFICATIONTask #: 008State: ColoradoAbbreviation: NoneDate: 9/23/2024County: WeldFilename: M2005059User: NCGAgency or organization name: DRMSFERTILIZING**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials Cost/Acre	\$0.00

Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

TILLING

Description	Cost /Acre
Chisel plowing {DMG}	\$102.41
Total Tilling Cost/Acre	\$102.41

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alfalfa - Common	5.00	24.10	\$19.96
Switchgrass - Nebraska 28	6.00	53.58	\$66.78
Sideoats Grama - Vaughn	7.00	22.98	\$172.14
Thickspike Wheatgrass - Critana	10.00	35.35	\$81.48
Totals Seed Mix	28.00	136.02	\$340.35

Application

Description	Cost /Acre
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Drill Seeding (DRMS Survey Cost)	\$236.64
Total Seed Application Cost/Acre	\$236.64

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$492.78	\$985.56
Total Mulch Materials Cost/Acre				\$985.56

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$85.37
Total Mulch Application Cost/Acre	\$85.37

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
Totals Nursery Stock Cost / Acre					\$0.00

JOB TIME AND COST

No. of Acres: 13 Cost /Acre: \$1,750.33
 Estimated Failure Rate: 20% Cost /Acre*: \$1,647.92
 *Selected Replanting Work Items: SEEDING,MULCHING

Initial Job Cost: \$22,754.29
 Reseeding Job Cost: \$4,284.59
 Total Job Cost: \$27,039
 Job Hours: 8.00