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

April 22, 2024

Martin Azcarraga
M.A. Concrete Construction, Inc.
2323 River Road
Grand Junction, CO 81505

Re: Cole Gravel Pit - File No. M-2004-020
M.A. Concrete Construction, Inc.
Surety Increase (SI-2)
Surety increase based on1-24-2024 inspection

Dear Martin Azcarraga:

On April 22, 2024 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to $711,743.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of $311,883.00.

Updates for inflation and current site conditions. Proposed SI-2 sent 2-14-2024 with no comments/objections.

Please see the January 24, 2024 inspection report for details regarding why this surety increase is required.

On April 22, 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 (8148), 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 June 21, 2024.

Bond Held:	$399,860.00
Prior Liability:	$399,860.00
Change in Liability:	$311,883.00

Revised Liability:	$711,743.00
Prior Permit Acreage:	264.63
Change in Permit Acreage:	0.00
Revised Permit Acreage:	264.63
Prior Affected Acreage:	199.70
Change in Affected Acreage:	0.00
Revised Affected Acreage:	199.70

If you have any questions, please contact me by telephone at (303) 866-3567 x 8183, or by email at Amy.yeldell@state.co.us.

Sincerely,

Amy C. Yeldell
Environmental Protection Specialist

M-GR-04

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

February 12, 2024

Andy Azacarraga
M.A. Concrete Construction, Inc.
2323 River Road
Grand Junction, CO 81505

RE: Cole Pit, Permit No. M-2004-020, Proposed bond calculation SI-2

Dear Mr. Azacarraga:

This reclamation cost update was based on site conditions observed at the January 24, 2024 site inspection. The last bond update was conducted in 2018 in conjunction with SI-1. It is Division policy to periodically update its costs to ensure that the Financial Warranty adequately, reflects the actual current cost of fulfilling the requirements of the approved reclamation plan.

Below is a table summarizing input values that have been used. This table does not account for price changes resulting from inflation or other RS Means cost changes. Bond calculations are based on a combination of field observations and worst case scenario based on the approved reclamation permit.

Task	Form Used	Justification
01a	Demo	Remove Scale house and scale 10' x 10' x 10' on side disposal, 200 'push
02a	Dozer	Regrade highwalls, cut/fill = 14,986 BCY @ 70'Push 10'H x 1000LF @ 1H:1V to a 3H: 1V = 926 CCY 15'H x 2000LF @ Vert to 3H: 1V = 6,248 BCY 15'H x 900 LF @ Vert to 3H: 1V = 2,812 BCY Misc pile grading in Phase 1 = 5,000 CCY
03a	Truck	Apply Overburden 68 ac @ 6" min = 54,853 CCY 100 ac affected – 8 ac reclaimed – 24 ac prev. topsoiled = 68 ac 600 LF Load/Carry and Avg 50'push to spread

03b	Ripper	Decompact Pit floor/stockpile areas ~ 56 ac
04a	Truck	Topsoil affected lands 68 ac @ 6" = 54,853 CCY 100 ac affected – 8 ac reclaimed – 24 ac prev. topsoiled = 68 ac 600 LF Load/Carry and Avg 50'push to spread
05a	Reveg	Reveg Mix B – Slopes 12 ac
05b	Reveg	Reveg Mix A - Pit Floor 80 ac
05c	Reveg	Reveg Mix A – 8ac previously reclaimed
10a	Mob	Initial Mobilization – Updated Fleet used 3 x D8 Dozer 1 x 972 Loader 3 Dump Truck, 12 C.Y Drill seeder and Power Mulcher
10b	Mob	Secondary Mobilization

Please provide feedback on the Divisions calculation by April 12, 2024. If the Division does not receive a response by **Friday, April 12, 2024** then the Division will issue a Notice of Surety Increase SI-2 at the proposed amount of $311,882 for a total bond amount of **$711,742** to be held.

Please feel free to contact me with any further questions.

Sincerely,

Amy Yeldell

Amy Yeldell
Environmental Protection Specialist

Ec: Travis Marshall, Senior EPS, Grand Junction DRMS

COST SUMMARY WORK

Task description: **Post inspection update**

Site: **Cole Gravel Pit** Permit Action: 1-24 Permit/Job#: M2004020

PROJECT IDENTIFICATION

Task #: ACY State: Colorado Abbreviation: None
Date: 2/9/2024 County: Mesa Filename: M020-ACY
User: ACY

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Demo	DEMOLISH	1	2.00	$194
02a	Regrade all slopes to 3H: 1V or less	DOZER	3	17.09	$22,629
03a	Apply overburden to affected lands	TRUCK1	1	106.11	$86,512
03b	Decompact pit floor	RIPPER	3	29.08	$39,000
04a	Apply topsoil to affected lands	TRUCK1	1	106.11	$90,330
05a	Revegetation Mix B - 12 ac of slope area	REVEGE	1	20.00	$35,953
05b	Revegetation of Mix A - 80 acres on pit floor	REVEGE	1	130.00	$253,337
05c	Revegetation of Mix A - 8 ac previsouly reclaimed	REVEGE	1	12.00	$24,792
10a	Initial mobilization	MOBILIZE	1	3.06	$8,919
10b	Secondary mobilization	MOBILIZE	1	3.06	$1,772
		SUBTOTALS:		**428.51**	**$563,438**

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	$11,381
Performance bond:	1.05	Total =	$5,916
Job superintendent:	214.26	Total =	$13,944
Profit:	10.00	Total =	$56,344
		TOTAL O & P =	$87,585
		CONTRACT AMOUNT (direct + O & P) =	$651,023

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	$500	Total =	$500
Engineering work and/or contract/bid preparation:	4.25	Total =	$27,668
Reclamation management and/or administration:	5.00		$32,551
CONTINGENCY:	0.00	Total =	$0
		TOTAL INDIRECT COST =	$148,305
		TOTAL BOND AMOUNT (direct + indirect) =	**$711,743**

DEMOLITION WORK

Task description: **Demo**

Site: **Cole Gravel Pit** Permit Action: 1-24 Permit/Job#: M2004020

PROJECT IDENTIFICATION

Task #: 01A State: Colorado Abbreviation: None
Date: 2/9/2024 County: Mesa Filename: M020-01a
User: ACY

Agency or organization name: DRMS

UNIT COSTS **Location adjustment: 89.80 %**

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Scale house	10x10x10	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 200 ft. push	1,000.00	CF	$0.22	$216.40

Job Hours: **2.00** **Subtotal (unadjusted)**: **$216.40** **Total Cost (adjusted for location)**: **$194.33**

BULLDOZER WORK

Task description: **CTaskDescription**

Site: **CSite** Permit Action: CJobAction Permit/Job#: CPermitID

PROJECT IDENTIFICATION

Task #: TTT State: CState Abbreviation: CAbbreviation
Date: mmddyyyy County: CCounty Filename: CFilename
User: UUU

Agency or organization name: CAgencyName

HOURLY EQUIPMENT COST

Basic Machine: Cat D8T - 8SU
Horsepower: 310
Blade Type: Semi-Universal
Attachment: 3-shank ripper
Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	$241.38	NA
Operating Cost/Hour:	$143.92	100
Ripper own. Cost/Hour:	$14.11	NA
Ripper op. Cost/Hour:	$1.86	25
Operator Cost/Hour:	$40.04	NA

Total unit Cost/Hour: $441.31
Total Fleet Cost/Hour: **$1,323.92**

MATERIAL QUANTITIES

Initial Volume: 14,986
Swell factor: 1.330
Loose volume: **19,931** LCY

Source of estimated volume: Reduce all slopes to 3H:1V or less
Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 70 feet
Unadjusted hourly production: 1,093.7 LCY/hr

Materials consistency description: Compacted fill or embankment 0.9

Average push gradient: 0 %
Average site altitude: 5,150 feet

Material weight: 2,900 lbs/LCY

Weight description: Decomposed rock - 50% Rock, 50% Earth

Job Condition Correction Factor		Source
Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(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:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3554

Adjusted unit production: 388.70 LCY/hr
Adjusted fleet production: **1166.1** LCY/hr

JOB TIME AND COST

Fleet size: 3 Dozer(s)
Unit cost: $1.135/LCY

Total job time: **17.09** Hours
Total job cost: **$22,629**

TRUCK/LOADER TEAM WORK

Task description: **Apply overburden to affected lands**

Site: **Cole Gravel Pit** Permit Action: 1-24 Permit/Job#: M2004020

PROJECT IDENTIFICATION

Task #: 03A State: Colorado Abbreviation: None
Date: 2/12/2024 County: Mesa Filename: M020-03a
User: ACY

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Shift basis: 1 per day

	Equipment Description
Truck Loader Team -Truck:	Generic 12-18 cy, 6x4
-Loader:	CAT 972H
Support Equipment -Load Area:	NA
-Dump Area:	Cat D8T - 8SU
Road Maintenance –Motor Grader:	NA
-Water Truck:	NA

Cost Breakdown:

	Truck/Loader Team		Support Equipment		Maintenance Equipment	
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	25	NA	NA
Ownership cost/hour:	$26.39	$57.78	NA	$241.38	NA	NA
Operating cost/hour:	$64.76	$56.23	NA	$35.98	NA	NA
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	$0.00	NA	$0.00	NA	NA
Ripper op. cost/hour:	NA	$0.00	NA	$0.00	NA	NA
Operator cost/hour:	$24.82	$35.97	NA	$40.04	NA	NA
Unit Subtotals:	$115.97	$149.98	NA	$317.40	NA	NA
Number of Units:	3	1	0	1	0	0
Group Subtotals:	Work:	$497.89	Support:	$317.40	Maint:	$0.00

Total work team cost/hour: **$815.29**

MATERIAL QUANTITIES

Initial volume: 54,853 CCY Swell factor: 1.125
Loose volume: **61,710** LCY

Source of estimated volume: 68 ac @ 6”
Source of estimated swell factor: Cat Handbook
Material Purchase Cost: $0.00
Total Cost: $0.00

HOURLY PRODUCTION

Truck Capacity:

Truck Payload (weight) Basis:

Material weight: 2,550 Pounds/LCY
Description: Earth - Dry packed
Rated Payload: 50,300 Pounds
Payload Capacity: 19.73 LCY

Truck Bed (volume) Basis:

Struck Volume:	12.00	LCY
Heaped Volume:	18.00	LCY
Average Volume:	15.00	LCY
Adjusted Volume:	18.00	LCY

Final Truck Volume Based on Number of Loader Passes: **12.32** LCY

Loading Tool Capacity

Bucket Size Class: NA

Rated Capacity:	5.600	LCY (heaped)
Bucket Fill Factor:	1.100	Other - rock/dirt mixtures (100-120%) 1.100
Adjusted Capacity:	**6.160**	LCY

Job Condition Corrections: Site Altitude (ft.): 5150 feet

	Truck	Loader	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	**0.830**	**0.830**	

Loading Tool Cycle Time: Number of Loading Tool Passes Required to Fill Truck: 2 passes

Excavators and Front Shovels:

Machine Cycle Time vs. Job Condition Rating: NA
Selected Value within this Basic Rating: NA

Track Loaders – Material Description:

Cycle Time Elements (min.):

Load: NA Maneuver: NA Dump: 0.100

Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver): 0.525 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Material 3/4" to 6" diameter 0.00	0.000	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high or less 0.01	0.010	(Cat HB)
Truck Ownership:	Common ownership of trucks and loaders -0.04	-0.040	(Cat HB)
Operation:	Constant operation -0.04	-0.040	(Cat HB)
Dump Target:	Nominal target 0.00	0.000	(Cat HB)
	Net Cycle Time Adjustment:	-0.070	minutes
	Adjusted Loader Cycle Time:	**0.455**	minutes
	Net Load Time per Truck:	**0.555**	minutes

Truck Cycle Time:

Truck Exchange Time:	0.50	Minutes	Adjusted for site altitude:	0.500	Minutes
Truck Load Time:	0.555	Minutes	Adjusted for site altitude:	0.555	Minutes
Truck Maneuver and Dump Time:	0.90	Minutes	Adjusted for site altitude:	0.900	Minutes

Truck Travel (Haul & Return) Time: Road Condition: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	600.00	1.00	8.00	9.00	1249	0.515

Haul Time: **0.515** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	600.00	-1.00	8.00	7.00	2555	0.266

Return Time: **0.266** minutes
Total Truck Cycle Time: **2.736** minutes

Loading Tool unit Production 700.66 LCY/Hour Adjusted for job efficiency: 581.55 LCY/Hour

Truck Unit Production 270.18 LCY/Hour Adjusted for job efficiency: 224.25 LCY/Hour

Optimal No. of Trucks: 3 Truck(s) Selected Number of Trucks: 3 Truck(s)

Adjusted hourly truck team production: 672.74 LCY/Hour
Adjusted single truck/loader team production: 581.55 LCY/Hour
Adjusted multiple truck/loader team production: **581.55** LCY/Hour

JOB TIME AND COST

Fleet size: 1 Team(s) Total job time: **106.11** Hours

Unit cost: $1.402 /LCY Total job cost: **$86,512**

BULLDOZER RIPPING WORK

Task description: **Decompact pit floor**

Site: **Cole Gravel Pit** Permit Action: 1-24 Permit/Job#: M2004020

PROJECT IDENTIFICATION

Task #: 03B State: Colorado Abbreviation: None
Date: 2/12/2024 County: Mesa Filename: M020-03b
User: ACY

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D8T - 8SU Horsepower: 310
Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	$241.38	NA
Operating Cost/Hour:	$143.92	100
Ripper Ownership Cost/Hour:	$14.11	NA
Ripper Operating Cost/Hour:	$7.45	100
Operator Cost/Hour:	$40.04	NA
Total Unit Cost/Hour:	$446.90	

Total Fleet Cost/Hour: **$1,340.69**

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 56.00 acres Rip Depth (ft): 2.00 Volume: 180,693 BCY or CCY

Source of estimated quantity: Staff estimates

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth:	2.00	feet/pass
Average Ripping Width:	7.08	feet/pass
Average Ripping Length:	200.00	feet/pass
Average Dozer Speed:	88.00	feet/minute
Average Maneuver Time:	0.25	minutes/pass
Production per unit area:	0.773	acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.773 Acres/hr

Site Altitude:	5,150	feet
Altitude Adj:	1.00	(CAT HB)
Job Efficiency:	0.83	(1 shift/day)
Net Correction:	0.83	multiplier

Adjusted Hourly Unit Production: 0.64 Acres/hr
Adjusted Hourly Fleet Production: **1.93** Acres/hr

JOB TIME AND COST

Fleet size: 3 Grader(s) Total job time: **29.09** Hours

Unit cost: $696.428 Per acre Total job cost: **$39,000**

TRUCK/LOADER TEAM WORK

Task description: **Apply topsoil to affected lands**

Site: **Cole Gravel Pit** Permit Action: 1-24 Permit/Job#: M2004020

PROJECT IDENTIFICATION

Task #: 04A State: Colorado Abbreviation: None
Date: 2/9/2024 County: Mesa Filename: M020-04a
User: ACY

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Shift basis: 1 per day

	Equipment Description
Truck Loader Team -Truck:	Generic 12-18 cy, 6x4
-Loader:	CAT 972H
Support Equipment -Load Area:	NA
-Dump Area:	Cat D8T - 8SU
Road Maintenance –Motor Grader:	NA
-Water Truck:	NA

Cost Breakdown:

	Truck/Loader Team		Support Equipment		Maintenance Equipment	
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	50	NA	NA
Ownership cost/hour:	$26.39	$57.78	NA	$241.38	NA	NA
Operating cost/hour:	$64.76	$56.23	NA	$71.96	NA	NA
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	$0.00	NA	$0.00	NA	NA
Ripper op. cost/hour:	NA	$0.00	NA	$0.00	NA	NA
Operator cost/hour:	$24.82	$35.97	NA	$40.04	NA	NA
Unit Subtotals:	$115.97	$149.98	NA	$353.38	NA	NA
Number of Units:	3	1	0	1	0	0
Group Subtotals:	Work:	$497.89	Support:	$353.38	Maint:	$0.00

Total work team cost/hour: **$851.27**

MATERIAL QUANTITIES

Initial volume: 54,853 CCY Swell factor: 1.125
Loose volume: **61,710** LCY

Source of estimated volume: 68 ac @ 6”
Source of estimated swell factor: Cat Handbook
Material Purchase Cost: $0.00
Total Cost: $0.00

HOURLY PRODUCTION

Truck Capacity:

Truck Payload (weight) Basis:

Material weight: 2,550 Pounds/LCY
Description: Earth - Dry packed
Rated Payload: 50,300 Pounds
Payload Capacity: 19.73 LCY

Truck Bed (volume) Basis:

Struck Volume:	12.00	LCY
Heaped Volume:	18.00	LCY
Average Volume:	15.00	LCY
Adjusted Volume:	18.00	LCY

Final Truck Volume Based on Number of Loader Passes: **12.32** LCY

Loading Tool Capacity

Bucket Size Class: NA

Rated Capacity:	5.600	LCY (heaped)
Bucket Fill Factor:	1.100	Other - rock/dirt mixtures (100-120%) 1.100
Adjusted Capacity:	**6.160**	LCY

Job Condition Corrections: Site Altitude (ft.): 5150 feet

	Truck	Loader	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	**0.830**	**0.830**	

Loading Tool Cycle Time: Number of Loading Tool Passes Required to Fill Truck: 2 passes

Excavators and Front Shovels:

Machine Cycle Time vs. Job Condition Rating: NA
Selected Value within this Basic Rating: NA

Track Loaders – Material Description:

Cycle Time Elements (min.):

Load: NA Maneuver: NA Dump: 0.100

Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver): 0.525 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Material 3/4" to 6" diameter 0.00	0.000	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high or less 0.01	0.010	(Cat HB)
Truck Ownership:	Common ownership of trucks and loaders -0.04	-0.040	(Cat HB)
Operation:	Constant operation -0.04	-0.040	(Cat HB)
Dump Target:	Nominal target 0.00	0.000	(Cat HB)
	Net Cycle Time Adjustment:	-0.070	minutes
	Adjusted Loader Cycle Time:	**0.455**	minutes
	Net Load Time per Truck:	**0.555**	minutes

Truck Cycle Time:

Truck Exchange Time:	0.50	Minutes	Adjusted for site altitude:	0.500	Minutes
Truck Load Time:	0.555	Minutes	Adjusted for site altitude:	0.555	Minutes
Truck Maneuver and Dump Time:	0.90	Minutes	Adjusted for site altitude:	0.900	Minutes

Truck Travel (Haul & Return) Time: Road Condition: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	600.00	1.00	8.00	9.00	1249	0.515

Haul Time: **0.515** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	600.00	-1.00	8.00	7.00	2555	0.266

Return Time: **0.266** minutes
Total Truck Cycle Time: **2.736** minutes

Loading Tool unit Production 700.66 LCY/Hour Adjusted for job efficiency: 581.55 LCY/Hour

Truck Unit Production 270.18 LCY/Hour Adjusted for job efficiency: 224.25 LCY/Hour

Optimal No. of Trucks: 3 Truck(s) Selected Number of Trucks: 3 Truck(s)

Adjusted hourly truck team production: 672.74 LCY/Hour
Adjusted single truck/loader team production: 581.55 LCY/Hour
Adjusted multiple truck/loader team production: **581.55** LCY/Hour

JOB TIME AND COST

Fleet size: 1 Team(s) Total job time: **106.11** Hours

Unit cost: $1.464 /LCY Total job cost: **$90,330**

REVEGETATION WORK

Task description: **Revegetation Mix B - 12 ac of slope area**

Site: **Cole Gravel Pit** Permit Action: 1-24 Permit/Job#: M2004020

PROJECT IDENTIFICATION

Task #: 05A State: Colorado Abbreviation: None
Date: 2/9/2024 County: Mesa Filename: M020-05a
User: ACY

Agency or organization name: DRMS

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Ammonium sulfate, 21-0-0 with 24% S	5.00	pound	$0.53	$2.65
Richlawn 3-6-3 w/ mycorrihiza humates (Pounds)	500.00	pound	$0.46	$227.80
			Total Fertilizer Materials Cost/Acre	**$230.45**

Application

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	$41.82
Total Fertilizer Application Cost/Acre	**$41.82**

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	$112.82
Total Tilling Cost/Acre	**$112.82**

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Arrowleaf Balsamroot	0.25	0.31	$17.55
Indian Ricegrass - Paloma	3.00	9.71	$33.38
Galleta	2.00	7.30	$44.70
Rabbitbrush, Rubber	0.12	1.79	$7.72
Sage, Fringed	0.06	5.01	$2.46
Sagebrush, Mountain or Big	0.12	6.34	$2.37
Saltbush, Four Wing	2.00	2.75	$25.00
Globemallow, Scarlet (or copper)	0.50	5.66	$67.75
Timothy - Climax	2.00	57.39	$3.20

Yarrow, Western	0.12	7.30	$5.02
Totals Seed Mix	10.17	103.56	**$209.14**

Application

Description	**Cost /Acre**
Drill Seeding (DRMS Survey Cost)	$232.00
Total Seed Application Cost/Acre	**$232.00**

MULCHING and MISCELLANEOUS

Materials

Description	**Units / Acre**	**Unit**	**Cost / Unit**	**Cost /Acre**
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	$4.01	$4.01
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	$429.79	$859.57
Total Mulch Materials Cost/Acre				**$863.58**

Application

Description	**Cost /Acre**
Crimping, with tractor {DMG survey data}	$74.46
Power mulcher (MEANS 32 91 13.16 0350)	$147.67
Weed spray, truck, non-aquatic area, nox. [DMG]	$62.72
Total Mulch Application Cost/Acre	**$284.85**

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: 12 Cost /Acre: $1,974.66
Estimated Failure Rate: 60% Cost /Acre*: $1,702.39
*Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: **$23,695.92**
Reseeding Job Cost: **$12,257.21**
Total Job Cost: **$35,953**
Job Hours: **20.00**

REVEGETATION WORK

Task description: **Revegetation of Mix A - 80 acres on pit floor**

Site: **Cole Gravel Pit** Permit Action: 1-24 Permit/Job#: M2004020

PROJECT IDENTIFICATION

Task #: 05B State: Colorado Abbreviation: None
Date: 2/9/2024 County: Mesa Filename: M020-05b
User: ACY

Agency or organization name: DRMS

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Ammonium sulfate, 21-0-0 with 24% S	5.00	pound	$0.53	$2.65
Richlawn 3-6-3 w/ mycorrihiza humates (Pounds)	500.00	pound	$0.46	$227.80
			Total Fertilizer Materials Cost/Acre	**$230.45**

Application

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	$41.82
Total Fertilizer Application Cost/Acre	**$41.82**

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	$112.82
Total Tilling Cost/Acre	**$112.82**

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	1.00	3.24	$11.13
Galleta	2.00	7.30	$44.70
Milk Vetch, Cicer - Monarch	20.00	66.57	$164.00
Saltbush, Four Wing	2.00	2.75	$25.00
Globemallow, Scarlet (or copper)	0.50	5.66	$67.75
Timothy - Climax	2.00	57.39	$3.20
Totals Seed Mix	27.50	142.92	**$315.78**

Application

Description	Cost /Acre
Drill Seeding (DRMS Survey Cost)	$232.00
Total Seed Application Cost/Acre	**$232.00**

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	$4.01	$4.01
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	$429.79	$859.57
Total Mulch Materials Cost/Acre				**$863.58**

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	$74.46
Power mulcher (MEANS 32 91 13.16 0350)	$147.67
Weed spray, truck, non-aquatic area, nox. [DMG]	$62.72
Total Mulch Application Cost/Acre	**$284.85**

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: 80 Cost /Acre: $2,081.30
Estimated Failure Rate: 60% Cost /Acre*: $1,809.03
*Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: **$166,504.00**
Reseeding Job Cost: **$86,833.44**
Total Job Cost: **$253,337**
Job Hours: **130.00**

REVEGETATION WORK

Task description: **Revegetation of Mix A - 8 ac previsouly reclaimed**

Site: **Cole Gravel Pit** Permit Action: 1-24 Permit/Job#: M2004020

PROJECT IDENTIFICATION

Task #: 05C State: Colorado Abbreviation: None
Date: 2/9/2024 County: Mesa Filename: M020-05c
User: ACY

Agency or organization name: DRMS

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Ammonium sulfate, 21-0-0 with 24% S	5.00	pound	$0.53	$2.65
Richlawn 3-6-3 w/ mycorrihiza humates (Pounds)	500.00	pound	$0.46	$227.80
			Total Fertilizer Materials Cost/Acre	**$230.45**

Application

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	$41.82
Total Fertilizer Application Cost/Acre	**$41.82**

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	$112.82
Total Tilling Cost/Acre	**$112.82**

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	1.00	3.24	$11.13
Galleta	2.00	7.30	$44.70
Milk Vetch, Cicer - Monarch	20.00	66.57	$164.00
Saltbush, Four Wing	2.00	2.75	$25.00
Globemallow, Scarlet (or copper)	0.50	5.66	$67.75
Timothy - Climax	2.00	57.39	$3.20
Totals Seed Mix	27.50	142.92	**$315.78**

Application

Description	Cost /Acre
Drill Seeding (DRMS Survey Cost)	$232.00
Total Seed Application Cost/Acre	**$232.00**

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	$4.01	$4.01
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	$429.79	$859.57
Total Mulch Materials Cost/Acre				**$863.58**

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	$74.46
Power mulcher (MEANS 32 91 13.16 0350)	$147.67
Weed spray, truck, non-aquatic area, nox. [DMG]	$62.72
Total Mulch Application Cost/Acre	**$284.85**

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: 8 Cost /Acre: $2,081.30
Estimated Failure Rate: 60% Cost /Acre*: $1,696.21
*Selected Replanting Work Items: SEEDING,MULCHING

Initial Job Cost: **$16,650.40**
Reseeding Job Cost: **$8,141.81**
Total Job Cost: **$24,792**
Job Hours: **12.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: **Initial mobilization**

Site: **Cole Gravel Pit** Permit Action: 1-24 Permit/Job#: M2004020

PROJECT IDENTIFICATION

Task #: 10A State: Colorado Abbreviation: None
Date: 2/9/2024 County: Mesa Filename: M020-10a
User: ACY

Agency or organization name: DRMS

EQUIPMENT TRANSPORT RIG COST

Shift basis: 1 per day
Cost Data Source: CRG Data

Truck 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:	$20.26	$36.04	$47.05
Operating Cost/Hour:	$39.51	$76.08	$82.85
Operator Cost/Hour:	$22.52	$22.52	$22.52
Helper Cost/Hour:	$0.00	$23.53	$23.53
Total Unit Cost/Hour:	$82.29	$158.17	$175.95

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 D8T - 8SU	53.08	$255.49	$175.95	3	$1,294.32	$527.85	$500.00
CAT 972H	28.00	$57.78	$158.17	1	$215.95	$158.17	$750.00
Drill/Broadcast Seeder with Tractor	25.00	$6.73	$82.29	2	$178.04	$164.58	$250.00
Power Mulcher (Bowie LD-90)	6.00	$25.94	$82.29	1	$108.23	$82.29	$250.00
Subtotals:					**$1,796.54**	**$932.89**	**$1,750.00**

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Generic 12-18 cy, 6x4	$115.97	3	$347.91	$347.91
Flatbed Truck, 6x4, 45K GVW	$89.38	1	$89.38	$89.38
Light Duty Pickup, 4x4, 1 T. Crew	$128.47	2	$256.94	$256.94
Subtotals:			**$694.23**	**$694.23**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	GRAND JUNCTION	
Total one-way travel distance:	12.00	miles
Average Travel Speed:	45.00	mph

Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	$8,548.78
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	$370.26

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.27	0.27
Return Time (Hours):	0.27	0.27
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.53	0.53

JOB TIME AND COST

Total job time:	**3.07**	Hours
Total job cost:	**$8,919**	

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: **Secondary mobilization**

Site: **Cole Gravel Pit** Permit Action: 1-24 Permit/Job#: M2004020

PROJECT IDENTIFICATION

Task #: 10B State: Colorado Abbreviation: None
Date: 2/12/2024 County: Mesa Filename: M020-10b
User: ACY

Agency or organization name: DRMS

EQUIPMENT TRANSPORT RIG COST

Shift basis: 1 per day
Cost Data Source: CRG Data

Truck 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:	$20.26	$36.04	$47.05
Operating Cost/Hour:	$39.51	$76.08	$82.85
Operator Cost/Hour:	$22.52	$22.52	$22.52
Helper Cost/Hour:	$0.00	$23.53	$23.53
Total Unit Cost/Hour:	$82.29	$158.17	$175.95

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
Drill/Broadcast Seeder with Tractor	25.00	$6.73	$82.29	1	$89.02	$82.29	$250.00
Power Mulcher (Bowie LD-90)	6.00	$25.94	$82.29	1	$108.23	$82.29	$250.00
Subtotals:					**$197.25**	**$164.58**	**$500.00**

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Flatbed Truck, 6x4, 45K GVW	$89.38	1	$89.38	$89.38
Light Duty Pickup, 4x4, 1 T. Crew	$128.47	2	$256.94	$256.94
Subtotals:			**$346.32**	**$346.32**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	GRAND JUNCTION	
Total one-way travel distance:	12.00	miles
Average Travel Speed:	45.00	mph

Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	$1,587.48
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	$184.70

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.27	0.27
Return Time (Hours):	0.27	0.27
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.53	0.53

JOB TIME AND COST

Total job time:	**3.07**	Hours
Total job cost:	**$1,772**	