



September 3, 2021

Mr. Derek Daniels
C & H Aggregate, LLC
43646 WCR 45
Ault, CO 80610

Re: North Weld Gravel, Permit No. M-1976-018, Amendment No. 1 - Revised Financial Warranty Amount

Dear Mr. Daniels,

On March 23, 2021 the Division of Reclamation, Mining and Safety notified C & H Aggregates, LLC that Amendment No. 1 was approved and that the financial warranty had been increased by \$415,108.00 for a total financial warranty liability of \$651,560.00. This letter supersedes the March 23, 2021 approval letter and provides the following revised financial warranty amount:

Bond Held: \$263,452.00

Change in Liability: \$207,458.00

Revised Liability: \$470,910.00

The increased financial warranty in the amount of \$207,458.00 is due immediately.

If you have any questions, you may contact me at (303)866-3567 ext. 8116.

Sincerely,

Michael A. Cunningham
Senior Environmental Protection Specialist

Enclosure: Revised Amendment No. 1 Bond Calculation



COST SUMMARY WORK

Task description: _____

Site: North Weld Gravel

Permit Action: Revision 01

Permit/Job#: M1976018

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 3/17/2021

County: Weld

Filename: M018-000

User: DC1

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Structure Demolition	DEMOLISH	1	0.00	\$3,930
002	Finish Grading Slopes to 3H:1V	DOZER	1	62.73	\$14,749
003	Rip 125 acres for topsoil	RIPPER	2	97.39	\$50,696
004	9 inches Topsoil over 125ac	SCRAPER1	1	144.20	\$151,002
005	Revegetating Disturbed Areas - Phase 1	REVEGE	1	150.00	\$149,851
006	Equipment Mobilization/Demobilization	MOBILIZE	1	7.77	\$11,644
<u>SUBTOTALS:</u>				462.09	\$381,872

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$7,714

Performance bond: 1.05

Total = \$4,010

Job superintendent: 225.28

Total = \$16,227

Profit: 10.00

Total = \$38,187

TOTAL O & P = \$66,138

CONTRACT AMOUNT (direct + O & P) = \$448,010

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$500

Total = \$500

Engineering work and/or contract/bid preparation: 0.00

Total = \$0

Reclamation management and/or administration: 5.00

\$22,400

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$89,038

TOTAL BOND AMOUNT (direct + indirect) = \$470,910

DEMOLITION WORK

Task description: Structure Demolition

Site: North Weld Gravel

Permit Action: Revision 01

Permit/Job#: M1976018

PROJECT IDENTIFICATION

Task #: 001

State: Colorado

Abbreviation: None

Date: 3/16/2021

County: Weld

Filename: M018-001

User: DC1

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 96.90 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Scale Foundation	30x2x8	Load/haul/dump demolished materials/debris into pit - Max. 1,000 ft. haul	4,800.00	CY	\$0.85	\$4,056.00

Job Hours: 0.00

Subtotal
(unadjusted): \$4,056.00

Total Cost
(adjusted for location): \$3,930.26

BULLDOZER WORKTask description: **Finish Grading Slopes to 3H:1V**Site: **North Weld Gravel**Permit Action: **Revision 01**Permit/Job#: **M1976018****PROJECT IDENTIFICATION**Task #: **002**State: **Colorado**Abbreviation: **None**Date: **9/2/2021**County: **Weld**Filename: **M018-002**User: **DC1**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D8T - 8SU**Horsepower: **310**Blade Type: **Semi-Universal**Attachment: **NA**Shift Basis: **1 per day**Data Source: **(CRG)****Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$97.46</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$97.63</u>	<u>100</u>
Ripper own.		
Cost/Hour:	<u>\$0.00</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$0.00</u>	<u>0</u>
Operator Cost/Hour:	<u>\$40.04</u>	<u>NA</u>

Total unit Cost/Hour: **\$235.13**Total Fleet Cost/Hour: **\$235.13****MATERIAL QUANTITIES**Initial Volume: **46,886**Swell factor: **1.230**Loose volume: **57,670 LCY**Source of estimated volume: **Division of Reclamation, Mining & Safety**Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **50 feet**Unadjusted hourly production: **1,400.0 LCY/hr**Materials consistency description: **Compacted fill or embankment 0.9**Average push gradient: **-5 %**Average site altitude: **6,200 feet**Material weight: **2,100 lbs/LCY**Weight description: **Earth - Loam****Job Condition Correction Factor**Operator Skill: **0.750****Source**
(AVG.)

Material consistency:	0.900	(CAT HB))
Dozing method:	1.200	(SLOT)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.095	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6567

Adjusted unit
production: 919.38 LCY/hr

Adjusted fleet
production: **919.38** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.256/LCY

Total job time: **62.73** Hours

Total job cost: **\$14,749**

BULLDOZER RIPPING WORK

Task description: Rip 125 acres for topsoil

Site: North Weld Gravel

Permit Action: Revision 01

Permit/Job#: M1976018

PROJECT IDENTIFICATION

Task #: 003

State: Colorado

Abbreviation: None

Date: 3/17/2021

County: Weld

Filename: M018-003

User: DC1

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:	\$97.46	NA
Operating Cost/Hour:	\$97.63	100
Ripper Ownership Cost/Hour:	\$15.19	NA
Ripper Operating Cost/Hour:	\$9.94	100
Operator Cost/Hour:	\$40.04	NA
Total Unit Cost/Hour:	\$260.26	
Total Fleet Cost/Hour:	\$520.51	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA

Bank Volume: NA

BCY NA

Area: 125.00 acres

Rip Depth (ft): 1.00

Volume: 201,667

BCY or CCY

Source of estimated quantity: Operator provided

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth:	<u>1.50</u>	feet/pass
Average Ripping Width:	<u>7.08</u>	feet/pass
Average Ripping Length:	<u>200.00</u>	feet/pass
Average Dozer Speed:	<u>88.00</u>	feet/minute
Average Maneuver Time:	<u>0.25</u>	minutes/pass
Production per unit area:	<u>0.773</u>	acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.773 Acres/hr

Site Altitude: 6,200 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: 1.28 Acres/hr

JOB TIME AND COST

Fleet size: 2 Grader(s) Total job time: 97.40 Hours

Unit cost: \$405.577 Per acre Total job cost: \$50,696

SCRAPER TEAM WORKTask description: 9 inches Topsoil over 125acSite: North Weld GravelPermit Action: Revision 01Permit/Job#: M1976018**PROJECT IDENTIFICATION**Task #: 004State: ColoradoAbbreviation: NoneDate: 3/17/2021County: WeldFilename: M018-004User: DC1Agency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 627G w/push-pull
-Dozer:	NA
Support Equipment -Load Area:	Cat D8T - 8SU
-Dump Area:	NA
Road Maintenance -Motor Grader:	NA
-Water Truck:	Water Tanker, 3,500 Gal.

Cost Breakdown:

	Scraper Work Team		Support Equipment		Maintenance Equipment	
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	NA	50	NA	NA	50
Ownership cost/hour:	\$188.81	NA	\$97.46	NA	NA	\$17.15
Operating cost/hour:	\$169.82	NA	\$48.82	NA	NA	\$14.60
%Utilization-ripper:	NA	NA	25	NA	NA	NA
Ripper own. cost/hour:	NA	NA	\$15.19	NA	NA	\$0.00
Ripper op. cost/hour:	NA	NA	\$2.49	NA	NA	\$0.00
Operator cost/hour:	\$47.07	NA	\$40.04	NA	NA	\$0.00
Unit Subtotals:	\$405.70	NA	\$203.99	NA	NA	\$31.75
Number of Units:	2	0	1	0	0	1
Group Subtotals:	Work:	\$811.40	Support:	\$203.99	Maint:	\$31.75

Total work team cost/hour: \$1,047.14**MATERIAL QUANTITIES**Initial volume: 151,250

CCY

Swell factor: 1.000Loose volume: 151,250

LCY

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

Material weight:	<u>1,600 lbs/LCY</u>	Struck Volume:	<u>15.70</u>	LCY
Material description:	<u>Top Soil</u>	Heaped Volume:	<u>22.00</u>	LCY
Rated Payload:	<u>52,800 pounds</u>	Average Volume:	<u>18.85</u>	LCY
Payload Capacity:	<u>33.00 LCY</u>	Adjusted Capacity:	<u>18.85</u>	LCY

Cycle Time:

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

Job Condition Correction:

Site Altitude: 6200 feet

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

Travel Time:Road Condition: Hard, smooth, stabilized, surfaced, watered, maintained 2.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	200.00	5.00	2.00	7.00	1568	0.19

Haul Time: 0.19 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	200.00	-5.00	2.00	-3.00	2938	0.10

Return Time: 0.10 minutesTotal Scraper team cycle time: 1.79 minutesAdjusted for job conditions: 1,048.86 LCY/HourSelected Number of Scrapers: 2 Scraper(s)Adjusted single scraper team (unit) hourly production: 1,048.86 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 1,048.86 LCY/HourUnadjusted unit production/hour: 1,263.69 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s) Total job time: 144.20 HoursUnit cost: \$0.998 /LCY Total job cost: \$151,002

REVEGETATION WORKTask description: **Revegetating Disturbed Areas - Phase 1**Site: **North Weld Gravel**Permit Action: **Revision 01**Permit/Job#: **M1976018****PROJECT IDENTIFICATION**Task #: **005**State: **Colorado**Abbreviation: **None**Date: **3/17/2021**County: **Weld**Filename: **M018-005**User: **DC1**Agency or organization name: **DRMS****FERTILIZING****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
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$114.56
Weed control spraying (MEANS 31 31 16.13 3100)	\$290.40
Total Tilling Cost/Acre	\$404.96

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Native	0.50	8.16	\$6.86
Sand Dropseed	0.20	23.88	\$1.95
Sideoats Grama - Vaughn	1.50	4.92	\$12.56
Crested Wheatgrass - Standard	3.00	13.77	\$12.45
Russian Wildrye - VNS	5.00	20.09	\$29.60
Western Wheatgrass - Native	4.00	10.10	\$24.00
Totals Seed Mix	14.20	80.92	\$87.43

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
Hay, delivered {MEANS 31 25 14.16 1200}	1.00	TON	\$307.02	\$307.02
Total Mulch Materials Cost/Acre				\$307.02

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$71.57
Total Mulch Application Cost/Acre	\$71.57

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: 125 Cost /Acre: \$1,102.98
 Estimated Failure Rate: 30% Cost /Acre*: \$319.43
 *Selected Replanting Work Items: SEEDING

Initial Job Cost: **\$137,872.50**
 Reseeding Job Cost: **\$11,978.63**
 Total Job Cost: **\$149,851**
 Job Hours: **150.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: Equipment Mobilization/DemobilizationSite: North Weld GravelPermit Action: Revision 01Permit/Job#: M1976018**PROJECT IDENTIFICATION**Task #: 006State: ColoradoAbbreviation: NoneDate: 3/17/2021County: WeldFilename: M018-006User: DC1Agency 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:	\$21.28	\$37.94	\$47.67
Operating Cost/Hour:	\$26.55	\$50.48	\$56.21
Operator Cost/Hour:	\$20.54	\$20.54	\$20.54
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$68.37	\$132.49	\$147.95

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	\$112.65	\$147.95	2	\$521.20	\$295.90	\$500.00
Cat 627G w/push-pull	43.48	\$188.81	\$132.49	2	\$642.60	\$264.98	\$500.00
Drill/Broadcast Seeder with Tractor	25.00	\$7.98	\$68.37	1	\$76.35	\$68.37	\$250.00

Subtotals: **\$1,240.15** **\$629.25** **\$1,250.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Water Tanker, 3,500 Gal.	\$46.35	1	\$46.35	\$46.35

Subtotals: **\$46.35** **\$46.35**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>GREELEY</u>	
Total one-way travel distance:	<u>20.00</u>	miles
Average Travel Speed:	<u>45.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$11,602.59</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$41.20</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.44</u>	<u>0.44</u>
Return Time (Hours):	<u>0.44</u>	<u>0.44</u>
Loading Time (Hours):	<u>1.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>1.50</u>	<u>NA</u>
Subtotals:	<u>3.89</u>	<u>0.89</u>

JOB TIME AND COST

Total job time:	<u>7.78</u>	Hours
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Total job cost:	<u>\$11,644</u>
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