



STATE OF
COLORADO

Simmons - DNR, Leigh <leigh.simmons@state.co.us>

M1998014, Gypsum Ranch Pit, SI-2

1 message

Simmons - DNR, Leigh <leigh.simmons@state.co.us>

Mon, May 15, 2023 at 10:30 AM

To: "Burkey, Jason K (CRH Americas Materials)" <jason.burkey@na.crh.com>, "Bartuska, Tyra L (United Companies)" <tyra.bartuska@unitedco.com>

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

Tyra, Jason,

The official notice for SI-2 is attached.

I see that you already emailed details of the increased bond last week and that a hard copy has been sent, so you're a step ahead!

Thanks,
Leigh

Leigh Simmons
Environmental Protection Specialist



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

P 303.866.3567 x 8121 | C 720.220.1180 | F 303.832.8106

1313 Sherman Street, Room 215, Denver, CO 80203

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M1998014_SI2Packet.pdf

1421K



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

May 15, 2023

Jason Burkey
Oldcastle SW Group, Inc. dba United Companies of Mesa County
2273 River Road
Grand Junction, CO 81502

Re: Gypsum Ranch Pit - File No. M-1998-014
Oldcastle SW Group, Inc. dba United Companies of Mesa County
Surety Increase (SI-2)
Surety Increase for 2023 unit costs

Dear Jason Burkey:

On May 15, 2023 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$1,101,545.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$543,626.51.

Please see the March 23, 2023 inspection report for details regarding why this surety increase is required.

The Division ordered amendment of the current Financial Warranty, or submittal of a new Financial Warranty reflecting the increase, within 60 days from the date of this letter (May 15, 2023).

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 after July 14, 2023, if the amount of any increased Financial Warranty has not been provided.

Bond Held:	\$557,918.49
Prior Liability:	\$557,918.49
Change in Liability:	\$543,626.51
Revised Liability:	\$1,101,545.00
Prior Permit Acreage:	155.57



Change in Permit Acreage:	0.00
Revised Permit Acreage:	155.57
Prior Affected Acreage:	133.50
Change in Affected Acreage:	0.00
Revised Affected Acreage:	133.50

If you have any questions, please contact me by telephone at (303) 866-3567 x 8121, or by email at Leigh.Simmons@state.co.us.

Sincerely,



Leigh D. Simmons
Environmental Protection Specialist

cc: Jason Burkey

M-GR-04

COST SUMMARY WORK

Task description: Update of Reclamation Cost Estimate

Site: Gypsum Ranch Pit

Permit Action: 2023 Inspection

Permit/Job#: M1998014

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 4/14/2023

County: Eagle

Filename: 000-014

User: LDS

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Demo/Disposal concrete batch plant and feeder bin	DEMOLISH	1	80.00	\$60,567
01b	Demo/disposal of site facilities	DEMOLISH	1	40.00	\$2,673
02a	Highwall slope reduction (Phase 1-4)	DOZER	2	174.12	\$91,861
02b	Transport backfill material	SCRAPER1	4	44.27	\$303,673
03a	Rip pit floor and access road	RIPPER	2	57.16	\$32,489
04a	Replace topsoil	SCRAPER1	4	15.57	\$106,807
05a	Distribute topsoil	DOZER	2	34.87	\$18,395
06a	Revegetate pit floor	REVEGE	1	80.00	\$202,720
06b	Revegetate slopes	REVEGE	1	40.00	\$31,795
07a	Mobilize/demobilize reclamation crew/equipment	MOBILIZE	1	3.14	\$7,385
<u>SUBTOTALS:</u>				569.13	\$858,365

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$17,339

Performance bond: 1.05

Total = \$9,013

Job superintendent: 284.57

Total = \$21,379

Profit: 10.00

Total = \$85,836

TOTAL O & P = \$133,568

CONTRACT AMOUNT (direct + O & P) = \$991,933

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

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

Total = \$500

Engineering work and/or contract/bid preparation: 6.00

Total = \$59,516

Reclamation management and/or administration: 5.00

\$49,597

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$243,180

TOTAL BOND AMOUNT (direct + indirect) = \$1,101,545

DEMOLITION WORK

Task description: Demo/Disposal concrete batch plant and feeder bin

Site: Gypsum Ranch Pit

Permit Action: 2023 Inspection

Permit/Job#: M1998014

PROJECT IDENTIFICATION

Task #: 01A

State: Colorado

Abbreviation: None

Date: 4/14/2023

County: Eagle

Filename: 014-01a

User: LDS

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 102.20 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Concrete batch plant	20' x 24' x 65'H	Plant (3S) demo./off-site disposal in approved landfill - Max. 15 mile haul	31,200.00	CF	\$0.77	\$24,024.00
Concrete batch plant stem wall	1.5'T x 4'H x 64'L	Demo. and on-site disposal in excavated pit, 12 in. thick - Max. 200 ft. push	384.00	SF	\$2.53	\$971.52
Concrete plant pad/wash area	20' x 24' (3)	Demo. and on-site disposal in excavated pit, 8 in. thick - Max. 200 ft. push	1,440.00	SF	\$1.61	\$2,321.28
Plant storage building	40' x 40' x 14'H	Bldg. (SN) demo./off-site disposal in approved landfill - Max. 15 mile haul	22,400.00	CF	\$0.36	\$8,153.60
Plant storage building stemwall	1'T x 6'H x 126'L	Demo. and on-site disposal in excavated pit, 12 in. thick - Max. 200 ft. push	756.00	SF	\$2.53	\$1,912.68
Conveyer	192.5'L	OBSOLETE-Conveyor, elevated, including supports - 5 ft. W x 6 ft. H housing	192.50	LF	\$44.51	\$8,567.98
Lower feeder bin walls and dividers	1752.65 cf., 14.5'H	Demo. and on-site disposal in excavated pit, 12 in. thick - Max. 200 ft. push	1,752.65	SF	\$2.53	\$4,434.20
Upper feeder bin walls and dividers	3.5'H x 115'L	Demo. and on-site disposal in excavated pit, 8 in. thick - Max. 200 ft. push	402.50	SF	\$1.68	\$676.20
Feeder bin pad	80' x 60' x 8"T	Demo. and on-site disposal in excavated pit, 8 in. thick - Max. 200 ft. push	4,800.00	SF	\$1.61	\$7,737.60
Fuel storage facility	3'H x 96'L x 8"T	Demo. and on-site disposal in excavated pit, 8 in. thick - Max. 200 ft. push	288.00	SF	\$1.61	\$464.26

Job Hours: 80.00

Subtotal
(unadjusted): \$59,263.32

Total Cost
(adjusted for location): \$60,567.11

DEMOLITION WORK

Task description: Demo/disposal of site facilities

Site: Gypsum Ranch Pit

Permit Action: 2023 Inspection

Permit/Job#: M1998014

PROJECT IDENTIFICATION

Task #: 01B

State: Colorado

Abbreviation: None

Date: 4/14/2023

County: Eagle

Filename: 014-01b

User: LDS

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 102.20 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Office Trailer	8' x 10' x 40'	Bldg. (SN) demo./off-site disposal in approved landfill - Max. 15 mile haul	3,200.00	CF	\$0.36	\$1,164.80
Scale	60' x 10'	Demo. and on-site disposal in excavated pit, 12 in. thick - Max. 200 ft. push	600.00	SF	\$2.42	\$1,450.80

Job Hours: 40.00

Subtotal
(unadjusted): \$2,615.60

Total Cost
(adjusted for location): \$2,673.14

BULLDOZER WORKTask description: **Highwall slope reduction (Phase 1-4)**Site: **Gypsum Ranch Pit** Permit Action: **2023 Inspection** Permit/Job#: **M1998014****PROJECT IDENTIFICATION**

Task #: **02A** State: **Colorado** Abbreviation: **None**
 Date: **4/14/2023** County: **Eagle** Filename: **014-02a**
 User: **LDS**

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:	\$124.85	NA
Operating Cost/Hour:	\$97.63	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: **\$263.78**
 Total Fleet Cost/Hour: **\$527.56**

MATERIAL QUANTITIES

Initial Volume: **219,907**
 Swell factor: **1.124**
 Loose volume: **247,088 LCY**

Source of estimated volume: **Observations made during Oct. 2010 inspection**
 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: **-20 %**
 Average site altitude: **6,400 feet**

Material weight: **2,900 lbs/LCY**Weight description: **Sand and gravel - Dry**

<u>Job Condition Correction Factor</u>	<u>Source</u>
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:	1.426	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5068

Adjusted unit production: 709.52 LCY/hr

Adjusted fleet production: **1419.04** LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)

Unit cost: \$0.372/LCY

Total job time: **174.12** Hours

Total job cost: **\$91,861**

SCRAPER TEAM WORKTask description: **Transport backfill material**Site: **Gypsum Ranch Pit**Permit Action: 2023 InspectionPermit/Job#: M1998014**PROJECT IDENTIFICATION**Task #: 02BState: ColoradoAbbreviation: NoneDate: 4/14/2023County: EagleFilename: 014-02bUser: LDSAgency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 657G
-Dozer:	Cat D8T - 8SU
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	100	NA	NA	NA	NA
Ownership cost/hour:	\$429.70	\$124.85	NA	NA	NA	NA
Operating cost/hour:	\$363.82	\$97.63	NA	NA	NA	NA
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	NA	NA	NA
Ripper op. cost/hour:	NA	\$0.00	NA	NA	NA	NA
Operator cost/hour:	\$30.90	\$41.30	NA	NA	NA	NA
Unit Subtotals:	\$824.42	\$263.78	NA	NA	NA	NA
Number of Units:	8	1	0	0	0	0
Group Subtotals:	Work: \$6,859.14		Support:	\$0.00	Maint:	\$0.00

Total work team cost/hour: **\$6,859.14****MATERIAL QUANTITIES**Initial volume: 219,907

CCY

Swell factor: 1.124Loose volume: **247,088**

LCY

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

Material weight: 2,900 lbs/LCY
 Material description: Sand and gravel - Dry
 Rated Payload: 104,000 pounds
 Payload Capacity: 35.86 LCY

Struck Volume: 32.00 LCY
 Heaped Volume: 44.00 LCY
 Average Volume: 38.00 LCY
 Adjusted Capacity: **35.86** LCY

Cycle Time:Scraper Loading Time: 1.00 MinutesManeuver and Spread Time: 0.60 MinutesJob Condition Correction:

Site Altitude: 6400 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, 2" tire penetration 5.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	0.00	5.00	5.00	2335	0.57

Haul Time: 0.57 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	0.00	5.00	5.00	2888	0.39

Return Time: 0.39 minutesTotal Scraper team cycle time: 2.56 minutesAdjusted for job conditions: 697.63 LCY/HourSelected Number of Scrapers: 2 Scraper(s)Adjusted single scraper team (unit) hourly production: 1,395.26 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 5,581.03 LCY/HourUnadjusted unit production/hour: 840.52 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 4 Team(s)Total job time: 44.27 HoursUnit cost: \$1.229 /LCYTotal job cost: \$303,673

BULLDOZER RIPPING WORK

Task description: Rip pit floor and access road

Site: Gypsum Ranch Pit Permit Action: 2023 Inspection Permit/Job#: M1998014

PROJECT IDENTIFICATION

Task #: 03A State: Colorado Abbreviation: None
Date: 4/14/2023 County: Eagle Filename: 014-03a
User: LDS

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:	\$124.85	NA
Operating Cost/Hour:	\$97.63	100
Ripper Ownership Cost/Hour:	\$13.10	NA
Ripper Operating Cost/Hour:	\$7.30	100
Operator Cost/Hour:	\$41.30	NA
Total Unit Cost/Hour:	\$284.18	
Total Fleet Cost/Hour:	\$568.36	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 78.00 acres Rip Depth (ft): 1.00 Volume: 125,840 BCY or CCY

Source of estimated quantity: Annual report

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth: 2.56 feet/pass
Average Ripping Width: 7.08 feet/pass
Average Ripping Length: 500.00 feet/pass
Average Dozer Speed: 88.00 feet/minute
Average Maneuver Time: 0.25 minutes/pass
Production per unit area: 0.822 acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.822 Acres/hr
Site Altitude: 6,400 feet
Altitude Adj: 1.00 (CAT HB)
Job Efficiency: 0.83 (1 shift/day)
Net Correction: 0.83 multiplier
Adjusted Hourly Unit Production: 0.68 Acres/hr
Adjusted Hourly Fleet Production: **1.36** Acres/hr

JOB TIME AND COST

Fleet size: 2 Grader(s) Total job time: **57.16** Hours

Unit cost: \$416.521 Per acre Total job cost: **\$32,489**

SCRAPER TEAM WORKTask description: **Replace topsoil**Site: **Gypsum Ranch Pit**Permit Action: 2023 InspectionPermit/Job#: M1998014**PROJECT IDENTIFICATION**Task #: 04AState: ColoradoAbbreviation: NoneDate: 4/14/2023County: EagleFilename: 014-04aUser: LDSAgency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 657G
-Dozer:	Cat D8T - 8SU
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	100	NA	NA	NA	NA
Ownership cost/hour:	\$429.70	\$124.85	NA	NA	NA	NA
Operating cost/hour:	\$363.82	\$97.63	NA	NA	NA	NA
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	NA	NA	NA
Ripper op. cost/hour:	NA	\$0.00	NA	NA	NA	NA
Operator cost/hour:	\$30.90	\$41.30	NA	NA	NA	NA
Unit Subtotals:	\$824.42	\$263.78	NA	NA	NA	NA
Number of Units:	8	1	0	0	0	0
Group Subtotals:	Work: \$6,859.14		Support:	\$0.00	Maint:	\$0.00

Total work team cost/hour: **\$6,859.14****MATERIAL QUANTITIES**Initial volume: 83,893

CCY

Swell factor: 1.000Loose volume: **83,893**

LCY

Source of estimated volume: 78 ac. at 8" depthSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight: 1,600 lbs/LCY
 Material description: Top Soil
 Rated Payload: 104,000 pounds
 Payload Capacity: 65.00 LCY

Struck Volume: 32.00 LCY
 Heaped Volume: 44.00 LCY
 Average Volume: 38.00 LCY
 Adjusted Capacity: **38.00** LCY

Cycle Time:Scraper Loading Time: 1.00 MinutesManeuver and Spread Time: 0.60 MinutesJob Condition Correction:

Site Altitude: 6400 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, 2" tire penetration 5.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1000.00	0.00	5.00	5.00	2335	0.65

Haul Time: 0.65 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1000.00	0.00	5.00	5.00	2888	0.56

Return Time: 0.56 minutesTotal Scraper team cycle time: 2.81 minutesAdjusted for job conditions: 673.45 LCY/HourSelected Number of Scrapers: 2 Scraper(s)Adjusted single scraper team (unit) hourly production: 1,346.90 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 5,387.62 LCY/HourUnadjusted unit production/hour: 811.39 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 4 Team(s)Total job time: 15.57 HoursUnit cost: \$1.273 /LCYTotal job cost: \$106,807

BULLDOZER WORKTask description: Distribute topsoilSite: Gypsum Ranch Pit Permit Action: 2023 Inspection Permit/Job#: M1998014**PROJECT IDENTIFICATION**

Task #: 05A State: Colorado Abbreviation: None
 Date: 4/14/2023 County: Eagle Filename: 014-05a
 User: LDS

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>\$124.85</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>\$41.30</u>	<u>NA</u>

Total unit Cost/Hour: \$263.78
 Total Fleet Cost/Hour: **\$527.56**

MATERIAL QUANTITIES

Initial Volume: 83,893
 Swell factor: 1.000
 Loose volume: **83,893 LCY**

Source of estimated volume: 78 ac. at 8" depth
 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: Loose stockpile 1.2

Average push gradient: 0 %
 Average site altitude: 6,400 feet

Material weight: 1,600 lbs/LCYWeight description: Top Soil

<u>Job Condition Correction Factor</u>	<u>Source</u>
Operator Skill: <u>0.750</u>	<u>(AVG.)</u>
Material consistency: <u>1.200</u>	<u>(CAT HB)</u>
Dozing method: <u>1.000</u>	<u>(GEN.)</u>
Visibility: <u>1.000</u>	<u>(AVG.)</u>

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:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8593

Adjusted unit production: 1,203.02 LCY/hr

Adjusted fleet production: **2406.04** LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)

Unit cost: \$0.219/LCY

Total job time: **34.87** Hours

Total job cost: **\$18,395**

REVEGETATION WORKTask description: Revegetate pit floorSite: Gypsum Ranch PitPermit Action: 2023 InspectionPermit/Job#: M1998014**PROJECT IDENTIFICATION**Task #: 06AState: ColoradoAbbreviation: NoneDate: 4/14/2023County: EagleFilename: 014-06aUser: LDSAgency 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
Chisel plowing {DMG}	\$98.43
Weed control spraying (MEANS 31 31 16.13 3100)	\$290.40
Total Tilling Cost/Acre	\$388.83

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Meadow Brome - Regar	10.00	9.18	\$39.75
Orchardgrass - Potomac	4.00	49.59	\$17.06
Alfalfa - Ladak (inoculated)	3.00	14.46	\$7.65
Red Clover - Medium	2.00	12.40	\$26.65
Ryegrass, Perennial - Zero Nui	4.00	22.68	\$7.20
Timothy - Climax	1.00	28.70	\$1.60
Totals Seed Mix	24.00	137.01	\$99.91

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 - Curtail @ 4.0 pt/ac	1.00	ACRE	\$7.94	\$7.94
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
Total Mulch Materials Cost/Acre				\$850.66

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$73.00
Weed spray, truck, non-aquatic area, nox. [DMG]	\$62.72
Total Mulch Application Cost/Acre	\$135.72

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: 95 Cost /Acre: \$1,707.12
 Estimated Failure Rate: 25% Cost /Acre*: \$1,707.12
 *Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: **\$162,176.40**
 Reseeding Job Cost: **\$40,544.10**
 Total Job Cost: **\$202,720**
 Job Hours: **80.00**

REVEGETATION WORKTask description: Revegetate slopesSite: Gypsum Ranch PitPermit Action: 2023 InspectionPermit/Job#: M1998014**PROJECT IDENTIFICATION**Task #: 06BState: ColoradoAbbreviation: NoneDate: 4/14/2023County: EagleFilename: 014-06bUser: LDSAgency 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
Chisel plowing {DMG}	\$98.43
Weed control spraying (MEANS 31 31 16.13 3100)	\$290.40
Total Tilling Cost/Acre	\$388.83

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Arrowleaf Balsamroot	0.25	0.31	\$17.55
Bitterbrush, Antelope	0.13	0.04	\$2.44
Indian Ricegrass - Native	1.00	3.24	\$6.50
Creeping Red Fescue - Cindy	2.00	25.25	\$3.80
Bottlebrush Squirreltail	1.00	4.41	\$16.23
Sandberg Bluegrass - VNS	2.00	42.47	\$16.80
Idaho Fescue	2.00	25.25	\$18.95
Holly or Oregon Grape	0.25	0.31	\$43.88
Lupine, Silver	0.25	0.15	\$17.49

Slender Wheatgrass - Native	4.00	14.60	\$18.50
Rabbitbrush, Rubber	0.13	1.86	\$8.04
Western Wheatgrass - Native	4.00	10.10	\$24.00
Needlegrass, Green - Lodorm	2.00	8.31	\$23.55
Rose, Wood's	0.25	0.00	\$5.13
Sage, Fringed	0.06	5.22	\$2.56
Sagebrush, Mountain or Big	0.13	6.60	\$2.47
Prairie Junegrass	1.00	53.15	\$26.00
Globemallow, Scarlet (or copper)	0.25	2.83	\$33.88
Sulphur Flower (or Buckwheat)	0.25	0.52	\$32.25
Yarrow, Western	0.01	0.76	\$0.52
Totals Seed Mix	20.95	205.39	\$320.53

Application

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

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$7.94	\$7.94
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
Total Mulch Materials Cost/Acre				\$850.66

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$73.00
Weed spray, truck, non-aquatic area, nox. [DMG]	\$62.72
Total Mulch Application Cost/Acre	\$135.72

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:	15	Cost /Acre:	\$1,695.74
Estimated Failure Rate:	25%	Cost /Acre*:	\$1,695.74
*Selected Replanting Work Items:	TILLING,SEEDING,MULCHING		
Initial Job Cost:	\$25,436.10		
Reseeding Job Cost:	\$6,359.03		

Total Job Cost:	\$31,795
Job Hours:	40.00

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: Mobilize/demobilize reclamation crew/equipmentSite: Gypsum Ranch PitPermit Action: 2023 InspectionPermit/Job#: M1998014**PROJECT IDENTIFICATION**Task #: 07AState: ColoradoAbbreviation: NoneDate: 4/14/2023County: EagleFilename: M014-07aUser: LDSAgency 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:	\$15.25	\$23.06	\$37.58
Operating Cost/Hour:	\$25.26	\$30.83	\$51.41
Operator Cost/Hour:	\$27.71	\$27.71	\$27.71
Helper Cost/Hour:	\$0.00	\$20.22	\$20.22
Total Unit Cost/Hour:	\$68.22	\$101.82	\$136.92

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	\$137.95	\$136.92	2	\$549.74	\$273.84	\$500.00
Cat 657G	78.88	\$429.70	\$136.92	2	\$1,133.24	\$273.84	\$500.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.25	\$68.22	1	\$74.47	\$68.22	\$250.00

Subtotals: **\$1,757.45** **\$615.90** **\$1,250.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 1 T. Crew	\$24.30	1	\$24.30	\$24.30

Subtotals: **\$24.30** **\$24.30**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: EAGLE
 Total one-way travel distance: 10.00 miles
 Average Travel Speed: 35.00 mph

Total Non-Roadable Mob/Demob Cost * \$7,371.10
 * two round trips with haul rig:
 Total Roadable Mob/Demob Cost ** \$13.89
 ** one round trip, no haul rig:

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.29</u>	<u>0.29</u>
Return Time (Hours):	<u>0.29</u>	<u>0.29</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>1.57</u>	<u>0.57</u>

JOB TIME AND COST

Total job time: 3.14 Hours

Total job cost: \$7,385