

COST SUMMARY WORK

Task description: _____

Site: Rincon Materials

Permit Action: New permit

Permit/Job#: M2020018

PROJECT IDENTIFICATION

Task #: 001

State: Colorado

Abbreviation: None

Date: 6/11/2020

County: Eagle

Filename: M018-001

User: SJM

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
002	backfill mining face	DOZER	2	118.79	\$54,016
003	toposil disturbed areas	DOZER	2	15.34	\$7,296
004	rip pit floor	RIPPER	1	30.54	\$7,635
005	reveg	REVEGE	1	0.00	\$74,858
006	removal of various equipemnt	DEMOLISH	1	0.00	\$1,304
<u>SUBTOTALS:</u>				164.67	\$145,109

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 0.00
Performance bond: 0.00
Job superintendent: 0.00
Profit: 10.00

Total = \$0
Total = \$0
Total = \$0
Total = \$14,511

TOTAL O & P = \$14,511

CONTRACT AMOUNT (direct + O & P) = \$159,620

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$0
Engineering work and/or contract/bid preparation: 0.00
Reclamation management and/or administration: 0.00

Total = \$0
Total = \$0
Total = \$0

CONTINGENCY: 3.00

Total = \$4,353

TOTAL INDIRECT COST = \$18,864

TOTAL BOND AMOUNT (direct + indirect) = \$163,973

COST SUMMARY WORK

Task description: Direct

Site: Rincon Materials

Permit Action: New permit

Permit/Job#: M2020018

PROJECT IDENTIFICATION

Task #: 001

State: Colorado

Abbreviation: None

Date: 6/11/2020

County: Eagle

Filename: M018-001

User: SJM

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<u>SUBTOTALS:</u>				164.67	\$145,109

BULLDOZER WORKTask description: Backfill mining faceSite: Rincon MaterialsPermit Action: New permitPermit/Job#: M2020018**PROJECT IDENTIFICATION**Task #: 002State: ColoradoAbbreviation: NoneDate: 6/11/2020County: EagleFilename: M018-002User: SJMAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: NAShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$103.86</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$82.26</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>\$41.24</u>	<u>NA</u>
Total unit Cost/Hour:	<u>\$227.36</u>	
Total Fleet Cost/Hour:	<u>\$454.72</u>	

MATERIAL QUANTITIESInitial Volume: 55,555Swell factor: 1.000Loose volume: 55,555 LCYSource of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell
factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 55 feetUnadjusted hourly
production: 1,323.4 LCY/hrMaterials consistency description: Loose stockpile 1.2Average push
gradient: 30 %Average site altitude: 6,180 feetMaterial weight: 2,550 lbs/LCYWeight description: Earth - Dry packed**Job Condition Correction Factor****Source**

Operator Skill:	0.750	(AVG.)
Material consistency:	1.200	(CAT HB)
Dozing method:	1.100	(50% SL)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.298	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.1767

Adjusted unit
production: 233.84 LCY/hr
Adjusted fleet
production: 467.68 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)
Unit cost: \$0.972/LCY

Total job time: 118.79 Hours
Total job cost: \$54,016

BULLDOZER WORKTask description: Toposil disturbed areasSite: Rincon MaterialsPermit Action: New permitPermit/Job#: M2020018**PROJECT IDENTIFICATION**Task #: 003State: ColoradoAbbreviation: NoneDate: 6/11/2020County: EagleFilename: M018-003User: SJMAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$103.86</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$82.26</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$10.43</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$0.00</u>	<u>0</u>
Operator Cost/Hour:	<u>\$41.24</u>	<u>NA</u>

Total unit Cost/Hour: \$237.79Total Fleet Cost/Hour: \$475.57**MATERIAL QUANTITIES**Initial Volume: 12,100Swell factor: 1.000Loose volume: 12,100 LCYSource of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell
factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 50 feetUnadjusted hourly
production: 1,400.0 LCY/hrMaterials consistency description: Loose stockpile 1.2Average push
gradient: 30 %Average site altitude: 6,180 feetMaterial weight: 1,600 lbs/LCYWeight description: Top SoilJob Condition Correction FactorSource

Operator Skill:	0.750	(AVG.)
Material consistency:	1.200	(CAT HB)
Dozing method:	1.100	(50% SL)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(SSD-AC)
Push gradient:	0.298	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.2817

Adjusted unit
production: 394.38 LCY/hr

Adjusted fleet
production: 788.76 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)

Unit cost: \$0.603/LCY

Total job time: 15.34 Hours

Total job cost: \$7,296

BULLDOZER RIPPING WORK

Task description: Rip pit floor

Site: Rincon Materials

Permit Action: New permit

Permit/Job#: M2020018

PROJECT IDENTIFICATION

Task #: 004

State: Colorado

Abbreviation: None

Date: 6/11/2020

County: Eagle

Filename: M018-004

User: SJM

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D8T - 8SU

Horsepower: 310

Ripper Attachment: 1-Shank Ripper

Shift Basis: 1 per day

Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$103.86	NA
Operating Cost/Hour:	\$82.26	100
Ripper Ownership Cost/Hour:	\$13.90	NA
Ripper Operating Cost/Hour:	\$8.74	100
Operator Cost/Hour:	\$41.24	NA
Total Unit Cost/Hour:	\$249.99	
Total Fleet Cost/Hour:	\$249.99	

MATERIAL QUANTITIES

Selected estimating method: Seismic

Alternate Methods:

Seismic: 43,560 CCY Bank Volume: 43,560 BCY Midrange
Area: NA acres Rip Depth (ft): NA Volume: NA BCY or CCY

Source of estimated quantity: New permit

HOURLY PRODUCTION

Seismic:

Seismic Velocity: 10 feet/second

Area:

Average Ripping Depth:	<u>NA</u>	feet/pass
Average Ripping Width:	<u>NA</u>	feet/pass
Average Ripping Length:	<u>NA</u>	feet/pass
Average Dozer Speed:	<u>NA</u>	feet/minute
Average Maneuver Time:	<u>NA</u>	minutes/pass
Production per unit area:	<u>NA</u>	acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production: 1,718.40 Cu. yds./hr

Site Altitude: 6,180 feet

Altitude Adj: 1.00 (CAT HB)

Job Efficiency: 0.83 (1 shift/day)

Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 1,426.27 Cu. yds./hr

Adjusted Hourly Fleet Production: 1,426.27 Cu. yds./hr

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: 30.54 Hours

Unit cost: \$0.175 Per cu. yd. Total job cost: \$7,635

REVEGETATION WORKTask description: RevegSite: Rincon MaterialsPermit Action: New permitPermit/Job#: M2020018**PROJECT IDENTIFICATION**Task #: 005State: ColoradoAbbreviation: NoneDate: 6/23/2020County: EagleFilename: M018-005User: SJMAgency 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
	\$
Total Tilling Cost/Acre	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Native	3.00	9.71	\$19.50
Bottlebrush Squirreltail	0.50	2.20	\$8.11
Smooth Brome - Lincoln	1.50	4.99	\$4.99
Russian Wildrye - VNS	1.50	6.03	\$8.88
Burnett, Small (or Little) - Delar	2.00	2.53	\$5.00
Galleta	3.00	10.95	\$67.05
Slender Wheatgrass - Native	3.00	10.95	\$13.88
Rabbitbrush, Rubber	0.50	7.45	\$32.15
Daisy, Englemann's	1.00	4.94	\$127.40

Western Wheatgrass - Native	1.00	2.53	\$6.00
Needlegrass, Green - Lodorm	1.00	4.16	\$11.78
Saltbush, Four Wing	1.00	1.38	\$12.50
Globemallow, Scarlet (or copper)	0.50	5.66	\$67.75
Saltbush, Shadscale	0.50	0.75	\$5.00
Winter Fat	0.50	1.27	\$10.25
Sulphur Flower (or Buckwheat)	2.00	4.13	\$258.00
Pubescent Wheatgrass - Topar	2.00	4.13	\$6.60
Totals Seed Mix	24.50	83.75	\$664.83

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
Straw, delivered {MEANS 31 25 14.16 1200}	200.00	BALE	\$11.80	\$2,360.00
Total Mulch Materials Cost/Acre				\$2,360.00

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$70.17
Total Mulch Application Cost/Acre	\$70.17

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:	\$3,327.00
Estimated Failure Rate:	50%	Cost /Acre*:	\$3,327.00
*Selected Replanting Work Items:	SEEDING,MULCHING		
Initial Job Cost:	\$49,905.00		
Reseeding Job Cost:	\$24,952.50		
Total Job Cost:	\$74,858		
Job Hours:	0.00		

DEMOLITION WORK

Task description: Removal of various equipemnt

Site: Rincon Materials

Permit Action: New permit

Permit/Job#: M2020018

PROJECT IDENTIFICATION

Task #: 006

State: Colorado

Abbreviation: None

Date: 6/23/2020

County: Eagle

Filename: M018-006

User: SJM

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 86.60 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
scalehouse	100x50	Cat 627G w/push-pull	2.00	EA	\$307.07	\$614.14
fuel tank removal	50x20	CAT 953D	1.00	EA	\$131.88	\$131.88
foundation	100x50	Cat 627G w/push-pull	2.00	EA	\$307.07	\$614.14
office	100x50	CAT 908H	2.00	EA	\$72.63	\$145.26

Job Hours: 0.00

Subtotal
(unadjusted): \$1,505.42

Total Cost
(adjusted for
location): \$1,303.69