

## COST SUMMARY WORK

Task description: Cost Summary of Reclamation Tasks

Site: Goldpark King No.2

Permit Action: New NOI

Permit/Job#: P2023004

### PROJECT IDENTIFICATION

Task#: 000

State: Colorado

Abbreviation: None

Date: 6/1/2023

County: Park

Filename: P004-000

User: ERR

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Backfill Treches	DOZER	1	4.51	\$518
002	Replace Topsoil	DOZER	1	0.69	\$79
003	Rip Overland Trails	RIPPER	1	2.12	\$249
004	Revegetate the Site	REVEGE	1	2.50	\$704
005	Mob/Demob Reclamation Equipment	MOBILIZE	1	4.72	\$1,829
<b><u>SUBTOTALS:</u></b>				<b>14.54</b>	<b>\$3,379</b>

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$68

Performance bond: 1.05

Total = \$35

Job superintendent: 0.00

Total = \$0

Profit: 10.00

Total = \$338

TOTAL O & P = \$442

CONTRACT AMOUNT (direct + O & P) = \$3,821

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$0

Total = \$0

Engineering work and/or contract/bid preparation: 0.00

Total = \$0

Reclamation management and/or administration: 5.00

\$191

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$633

**TOTAL BOND AMOUNT (direct + indirect) = \$4,012**

**BULLDOZER WORK**Task description: **Backfill Trenches**Site: **Goldpark King No.2**Permit Action: **New NOI**Permit/Job#: **P2023004****PROJECT IDENTIFICATION**Task #: **001**State: **Colorado**Abbreviation: **None**Date: **6/1/2023**County: **Park**Filename: **P004-001**User: **ERR**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D4K XL - 4P**Horsepower: **84**Blade Type: **Power Angle Tilt**Attachment: **3-shank ripper**Shift Basis: **1 per day**Data Source: **(CRG)****Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$39.33	NA
Operating Cost/Hour:	\$31.31	100
Ripper own. Cost/Hour:	\$2.94	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: **\$114.88**Total Fleet Cost/Hour: **\$114.88****MATERIAL QUANTITIES**Initial Volume: **634**Swell factor: **1.250**Loose volume: **793 LCY**Source of estimated volume: **Application: (2) 95 LF x 30' D trenches. Assume: 36" Bucket**Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **50 feet**Unadjusted hourly production: **300.0 LCY/hr**Materials consistency description: **Loose stockpile 1.2**Average push gradient: **5 %**Average site altitude: **9,550 feet**Material weight: **2,650 lbs/LCY**Weight description: **Decomposed rock - 25% Rock, 75% Earth****Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(A VG.)
Material consistency:	1.200	(CAT HB)
Dozing method:	1.000	(GEN.)

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	1.000	(DOZ-OC)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5855

Adjusted unit production: 175.65 LCY/hr

Adjusted fleet production: **175.65** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)  
 Unit cost: \$0.654/LCY

Total job time: **4.51** Hours  
 Total job cost: **\$518**

**BULLDOZER WORK**Task description: **Replace Topsoil**Site: **Goldpark King No.2**Permit Action: **New NOI**Permit/Job#: **P2023004****PROJECT IDENTIFICATION**Task #: **002**State: **Colorado**Abbreviation: **None**Date: **6/1/2023**County: **Park**Filename: **P004-002**User: **ERR**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D4K XL - 4P**Horsepower: **84**Blade Type: **Power Angle Tilt**Attachment: **3-shank ripper**Shift Basis: **1 per day**Data Source: **(CRG)****Cost Breakdown:**

		<b><u>Utilization %</u></b>
Ownership Cost/Hour:	<b><u>\$39.33</u></b>	<b><u>NA</u></b>
Operating Cost/Hour:	<b><u>\$31.31</u></b>	<b><u>100</u></b>
Ripper own. Cost/Hour:	<b><u>\$2.94</u></b>	<b><u>NA</u></b>
Ripper op. Cost/Hour:	<b><u>\$0.00</u></b>	<b><u>0</u></b>
Operator Cost/Hour:	<b><u>\$41.30</u></b>	<b><u>NA</u></b>

Total unit Cost/Hour: **\$114.88**Total Fleet Cost/Hour: **\$114.88****MATERIAL QUANTITIES**Initial Volume: **112**Swell factor: **1.429**Loose volume: **160 LCY**Source of estimated volume: **12" over approx. 1500 sqft per trench**Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **50 feet**Unadjusted hourly production: **300.0 LCY/hr**Materials consistency description: **Loose stockpile 1.2**Average push gradient: **5 %**Average site altitude: **9,550 feet**Material weight: **1,600 lbs/LCY**Weight description: **Top Soil****Job Condition Correction Factor**

		<b><u>Source</u></b>
Operator Skill:	<b><u>0.750</u></b>	<b><u>(A VG.)</u></b>
Material consistency:	<b><u>1.200</u></b>	<b><u>(CAT HB)</u></b>
Dozing method:	<b><u>1.000</u></b>	<b><u>(GEN.)</u></b>
Visibility:	<b><u>1.000</u></b>	<b><u>(A VG.)</u></b>

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

Net correction: 0.7760

Adjusted unit production: 232.80 LCY/hr

Adjusted fleet production: **232.8** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.493/LCY

Total job time: **0.69** Hours

Total job cost: **\$79**

## BULLDOZER RIPPING WORK

Task description: Rip Overland Trails

Site: Goldpark King No.2 Permit Action: New NOI Permit/Job#: P2023004

### PROJECT IDENTIFICATION

Task#: 003 State: Colorado Abbreviation: None  
Date: 6/1/2023 County: Park Filename: P004-003  
User: ERR

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat D4K XL - 4P Horsepower: 84  
Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day  
Data Source: (CRG)

#### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$39.33	NA
Operating Cost/Hour:	\$31.31	100
Ripper Ownership Cost/Hour:	\$2.94	NA
Ripper Operating Cost/Hour:	\$2.18	100
Operator Cost/Hour:	\$41.30	NA
Total Unit Cost/Hour:	\$117.06	
Total Fleet Cost/Hour:	<b>\$117.06</b>	

### MATERIAL QUANTITIES

Selected estimating method: Area

#### Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA  
Area: 1.00 acres Rip Depth (ft): 1.50 Volume: 2,420 BCY or CCY

Source of estimated quantity: Application: (2) 2900' x 15' overland access routes

### HOURLY PRODUCTION

#### Seismic:

Seismic Velocity: NA feet/second

#### Area:

Average Ripping Depth: 1.11 feet/pass  
Average Ripping Width: 5.08 feet/pass  
Average Ripping Length: 250.00 feet/pass  
Average Dozer Speed: 88.00 feet/minute  
Average Maneuver Time: 0.25 minutes/pass  
Production per unit area: 0.566 acres/hour

#### Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.566 Acres/hr  
Site Altitude: 9,550 feet  
Altitude Adj: 1.00 (CAT HB)  
Job Efficiency: 0.83 (1 shift/day)  
Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.47 Acres/hr  
Adjusted Hourly Fleet Production: 0.47 Acres/hr

### JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: 2.13 Hours

Unit cost: \$249.201 Per acre Total job cost: \$249

REVEGETATION WORKTask description: Revegetate the SiteSite: Goldpark King No.2Permit Action: New NOIPermit/Job#: P2023004PROJECT IDENTIFICATIONTask #: 004State: ColoradoAbbreviation: NoneDate: 6/1/2023County: ParkFilename: P004-004User: ERRAgency or organization name: DRMSFERTILIZINGMaterials

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

Application

Description	Cost/Acre
	\$
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$0.00</b>

TILLING

Description	Cost/Acre
Chisel plowing {DMG}	\$98.43
<b>Total Tilling Cost/Acre</b>	<b>\$98.43</b>

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost/Acre
Rye, Annual Tetraploid - Barmultra	6.00	26.17	\$9.90
Blue Grama - Native	2.50	40.81	\$34.31
Indian Ricegrass - Native	2.50	8.09	\$16.25
Switchgrass - Pathfinder	2.00	17.86	\$25.50
Mountain Brome - Bromar	3.50	5.62	\$13.30
Slender Wheatgrass - Native	5.50	20.08	\$25.44
Prairie Sandreed - Goshen	3.00	18.80	\$31.05
<b>Totals Seed Mix</b>	<b>25.00</b>	<b>137.43</b>	<b>\$155.75</b>

**Application**

Description	Cost/Acre
Broadcast seeding [DMG]	\$267.22
<b>Total Seed Application Cost/Acre</b>	<b>\$267.22</b>

**MULCHING and MISCELLANEOUS****Materials**

Description	Units / Acre	Unit	Cost/ Unit	Cost/Acre
			\$	\$
<b>Total Mulch Materials Cost/Acre</b>				<b>\$0.00</b>

**Application**

Description	Cost/Acre
	\$
<b>Total Mulch Application Cost/Acre</b>	<b>\$0.00</b>

**NURSERY STOCK PLANTING**

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

**JOB TIME AND COST**

No. of Acres: 1.08                      Cost/Acre: \$521.40  
 Estimated Failure Rate: 25%                      Cost/Acre\*: \$521.40  
 \*Selected Replanting Work Items: TILLING,SEEDING

Initial Job Cost: **\$563.11**  
 Reseeding Job Cost: **\$140.78**  
 Total Job Cost: **\$704**  
 Job Hours: **2.50**



**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: **Mob/Demob Reclamation Equipment**Site: **Goldpark King No.2**Permit Action: **New NOI**Permit/Job#: **P2023004****PROJECT IDENTIFICATION**Task #: **005**State: **Colorado**Abbreviation: **None**Date: **6/1/2023**County: **Park**Filename: **P004-005**User: **ERR**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:**

<b>Available Rig Capacities</b>	<b>0-25 Tons</b>	<b>26-50 Tons</b>	<b>51+ Tons</b>
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 D4K XL - 4P	10.32	\$42.27	\$68.22	1	\$110.49	\$68.22	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.25	\$68.22	1	\$74.47	\$68.22	\$250.00

Subtotals: **\$184.96** **\$136.44** **\$500.00****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:	<u>SILVERTHORNE</u>	
Total one-way travel distance:	<u>46.60</u>	miles
Average Travel Speed:	<u>50.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$1,784.05</u>
'* two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$45.30</u>
** one round trip, no haul rig:	

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.93</u>	<u>0.93</u>
Return Time (Hours):	<u>0.93</u>	<u>0.93</u>
Loading Time (Hours):	<u>0.25</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.25</u>	<u>NA</u>
Subtotals:	<u>2.36</u>	<u>1.86</u>

**JOB TIME AND COST**

Total job time:	<u>4.73</u>	Hours
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Total job cost:	<u>\$1,829</u>
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