COST SUMMARY WORK

e: Rivervie	w Resource	Per	mit Action:	SO2 Bond Estimate	Permit/Job	o#: M1999098
PROJECT	IDENTIFIC	<u>CATION</u>				
Task #:	201	State:	Colorado		Abbreviation:	None
Date:	2/19/2023	County:	Weld		Filename:	M098-201
User:	PSH					

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
202	Backfill Lake Sections Cell 3, 37.3 Ace, 25' Depth	SITEMAINT ENANCE	1	0.00	\$6,017,732
203	Backfill Wetland Sections Cell 1,3 and 5, 28.6 Ac, 10' Depth	SITEMAINT ENANCE	1	0.00	\$1,729,492
204	Cell 4 Slurry Wall Installation	SITEMAINT ENANCE	1	0.00	\$2,014,200
206	Revegetation and Weed Control - 150 Acres	REVEGE	1	0.00	\$255,126
207	Mob / Demob	MOBILIZE	1	5.14	\$17,498
		SUBTO	TALS:	5.14	\$10,034,048

INDIRECT COSTS

OVERHEAD AND PROFIT:

2.02 Liability insurance: Total = \$202,688 Performance bond: 1.05 Total = \$105,358 Job superintendent: Total = 2.57 \$193 Total = Profit: 10.00 \$1,003,405 TOTAL O & P =\$1,311,643

CONTRACT AMOUNT (direct + O & P) = $\frac{$1,311,045}{$11,345,691}$

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

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

Engineering work and/or contract/bid preparation: Reclamation management and/or administration: 0.00 Total = \$0

\$0

CONTINGENCY: 0.00 Total = \$0

TOTAL INDIRECT COST = \$1,312,143

TOTAL BOND AMOUNT (direct + indirect) = \$11,346,191

\$11,300,000.00 (Rounded)

SITE MAINTENANCE

Site: R	iverview Resource		Permit Action:	SO2 Bond Estimate	Permit	Job#:	M1999098
OJECT	IDENTIFICATIO	<u> </u>					
Task #:	202	State:	Colorado	A	Abbreviation:	None	
Date:	2/19/2023	County:	Weld		Filename:	M098	3-202
User:	PSH						

UNIT COSTS

Maintenance Item	Hours per Year	Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Import Backfill	3000.00	USER PROVIDED	1,504,433.00	1	\$4.00	\$6,017,732.00
Material		ITEM				

Job Hours: 0.00 Total Cost: \$6,017,732.00

SITE MAINTENANCE

Site: R	iverview Resource		Permit Action:	SO2 Bond Estimate	Permit	/Job#:	M1999098
OJECT	I IDENTIFICATIO	<u> </u>					
Γask #:	203	State:	Colorado	Al	obreviation:	None	
Date:	2/19/2023	County:	Weld		Filename:	M098	3-203
User:	PSH	•			•		

UNIT COSTS

Maintenance Item	Hours per Year	Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Import Backfill Material	2400.00	USER PROVIDED ITEM	432,373.00	1	\$4.00	\$1,729,492.00

Job Hours: 0.00 Total Cost: \$1,729,492.00

SITE MAINTENANCE

Tas	sk description:	Cell 4 Slurr	y Wall Installat	tion			
Site: R	iverview Resource		Permit Action:	SO2 Bond Estimate	Permit	/Job#:	M1999098
PROJECT	TIDENTIFICATION	<u>N</u>					
Task #:	204	State:	Colorado		Abbreviation:	None	:
Date:	2/19/2023	County:	Weld		Filename:	M098	3-204
User:	PSH				•		
	Agency or organiza	tion name:	DRMS				

UNIT COSTS

Maintenance Item	Hours per Year	Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Slurry Wall Install - \$373 per LF	1500.00	USER PROVIDED ITEM	5,400.00	1	\$373.00	\$2,014,200.00

Job Hours: 0.00 Total Cost: \$2,014,200.00

SCRAPER TEAM WORK

Task description:	Topsoil - 150	Acres, 6" Dep	th			
Site: Riverview Resou	irce	Permit Action:	S02 Bond Est	imate P	ermit/Job#: M	1999098
PROJECT IDENT	<u> TIFICATION</u>					
Task #: $\frac{205}{\text{Date:}}$ User: $\frac{2/19/2}{\text{PSH}}$	State 2023 County				viation: None M098	-205
Agency or o	organization name:	DRMS				
HOURLY EQUIP	MENT_		COSTS	Shift basis: 1 per	day	
			ent Description			
• •	-Scra -Do rt Equipment -Load A -Dump A intenance –Motor Gra	zer: NA rea: Cat D8' rea: CAT 14	T - 8SU			
Cost Breakdown:	-Water Tru Scraper Work T	1	Support Equi	inment	Maintenan	ce Equipment
Cost Di canao vin	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	NA	100	100	NA	NA
Ownership cost/hour:	\$179.93	NA	\$124.85	\$114.80	NA	NA
Operating cost/hour:	\$231.04	NA	\$97.63	\$79.39	NA	NA
%Utilization-ripper:	NA	NA	50	NA	NA	NA
Ripper own. cost/hour:	NA	NA	\$13.10	\$0.00	NA	NA
Ripper op. cost/hour:	NA	NA	\$3.65	\$0.00	NA	NA
Operator cost/hour:	\$47.07	NA	\$40.04	\$46.87	NA	NA
Unit Subtotals:	\$458.04	NA	\$279.27	\$241.06	NA	NA
Number of Units:	3	0	1	1	0	0
Group Subtotals:	Work:	\$1,374.12	Support:	\$520.33	Maint:	\$0.00
Total work team cost/		_				
MATERIAL QUA						
Initial volume: Loose volume:		CCY LCY	Swell fact	tor: <u>1.000</u>		
	rce of estimated volun of estimated swell fact					
HOURLY PRODU	<u>UCTION</u>					
			Scraper B	Bowl (volume) Ba	sis:	
Material weight: Material description:	1,600 lbs/LCY Top Soil			Volume: 15.70 Volume: 22.00		LCY
Rated Payload: Payload Capacity:	52,800 pounds 33.00 LCY		Average Adjusted (Volume: 18.85	I	LCY LCY

Site Altitude: 4700 feet

C	vcle	Time	•
·	y CIC	1 11111	•

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

<u>Job Condition Correction:</u>

	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: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	2000.00	5.00	3.00	8.00	1381	1.49

Haul Time: **1.49** minutes

800.05

LCY/Hour

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	2000.00	-5.00	3.00	-2.00	2938	0.73

Return Time: 0.73 minutes Total Scraper team cycle time: 3.52 minutes Adjusted for job conditions: 266.68 LCY/Hour Selected Number of Scrapers: 3 Scraper(s) Adjusted single scraper team (unit) hourly production: LCY/Hour 800.05 Adjusted multiple scraper team (fleet) hourly production:

Unadjusted unit production/hour: 321.31 LCY/Hour Optimal Number of Scrapers per push dozer:

JOB TIME AND COST

Fleet size:	1	Team(s)	Total job time:	151.24	Hours
Unit cost:	\$2.368	/LCY	Total job cost:	\$286,516	

REVEGETATION WORK

Revegetation and Weed Control - 150 Acres

Site: Ri	verview Resource	Permit Action:	SO2 Bond Estimate	Permit/Job#:	M1999098

PROJECT IDENTIFICATION

Task #:206State:ColoradoAbbreviation:NoneDate:2/19/2023County:WeldFilename:M098-206

User: PSH

Agency or organization name: DRMS

FERTILIZING

Task description:

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
0-20-20, 4-8-12, 10-10-10	200.00	pound	\$0.23	\$46.00
			Total Fertilizer Materials	
			Cost/Acre	\$46.00

Application

Description		Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)		\$39.64
	Total Fertilizer Application Cost/Acre	\$39.64

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.18
Total Tilling Cost/Acre	\$117.18

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Hachita	2.95	48.15	\$47.13
Indiangrass - Cheyenne	0.70	2.13	\$7.91
Big Bluestem - Native	0.70	2.09	\$8.27
Buffalograss - Cody	0.59	0.57	\$5.64
Switchgrass - Pathfinder	0.70	6.25	\$8.93
Sand Dropseed	0.23	27.46	\$2.24
Little Bluestem - Native	0.59	3.52	\$8.00
Sideoats Grama - Butte	2.36	7.75	\$21.24
Western Wheatgrass - Arriba	2.36	5.96	\$15.34
Needlegrass, Green - Lodorm	0.47	1.95	\$5.53
Spike Muhly	0.11	4.04	\$1.07

\$0.00

	Totals Seed Mix	11.76	109.87	\$131.31
Application				
Description				Cost /Acre
				\$

Total Seed Application Cost/Acre

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Hay, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
Total Mulch Materials Cost/Acre				\$842.72

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$73.00
Weed spray, truck, non-aquatic area, nox. [DMG]		\$62.72
Weed spray, truck, non-aquatic areas, ann. [DMG]		\$22.81
Total	Mulch Application Cost/Acre	\$158.53

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
	\$0.00				

JOB TIME AND COST

 No. of Acres:
 150
 Cost /Acre:
 \$1,335.38

 Estimated Failure Rate:
 30%
 Cost /Acre*:
 \$1,218.20

*Selected Replanting Work Items: FERTILIZING,SEEDING,MULCHING

Initial Job Cost: \$200,307.00

Reseeding Job Cost: \$54,819.00

Total Job Cost: Job Hours: \$0.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Mo	ob / Demob			
e: Riverview Resource	Permi	t Action: SO2 Bo	ond Estimate Permit/J	ob#: <u>M1999098</u>
PROJECT IDENTIFICATI	<u>ION</u>			
Task #: 207 Date: 2/19/2023 User: PSH		Colorado Veld	Abbreviation: Filename:	
Agency or organizatio	n name: DRM	S		
EQUIPMENT TRANSPOR	T RIG COST			
			Shift basis: Cost Data Source:	1 per day CRG Data
Truck Tractor Desc	cription: GENI	ERIC ON-HIGHW	AY TRUCK TRACTOR, 6X4 400 HP (2ND HALF, 2006)	, DIESEL POWERED,
Truck Trailer Desc	cription: (NG GOOSENECK, DROP DE AAILER (25T, 50T, AND 1007	
Cost Breakdown:				
Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons	
Ownership Cost/Hour:	\$15.25	\$23.06	\$37.58	

\$30.83

\$27.71

\$20.22

\$101.82

\$51.41

\$27.71

\$20.22

\$136.92

NON ROADABLE EQUIPMENT:

Total Unit Cost/Hour:

Operating Cost/Hour:

Operator Cost/Hour:

Helper Cost/Hour:

\$25.26

\$27.71

\$0.00

\$68.22

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/uni t	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 627G	41.80	\$179.93	\$101.82	6	\$1,690.50	\$610.92	\$1,500.00
CAT 14M	23.57	\$114.80	\$68.22	2	\$366.04	\$136.44	\$500.00

Subtotals: \$2,606.28 \$1,021.20 \$2,500.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet

Subtotals: \$0.00 \$0.00

EQUIPMENT HAUL DISTANCE and Time

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

> Total Non-Roadable Mob/Demob Cost * \$17,497.97 "* two round trips with haul rig: Total Roadable Mob/Demob Cost ** \$0.00 ** one round trip, no haul rig:

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.29	0.29
Return Time (Hours):	0.29	0.29
Loading Time (Hours):	1.00	NA
Unloading Time (Hours):	1.00	NA
Subtotals:	2.57	0.57

JOB TIME AND COST

Total job time:	5.14	Hours
Total job cost:	\$17,498	