



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

March 14, 2025

Kevin Peart  
Holcim - WCR, Inc.  
1687 Cole Blvd., Suite 300  
Golden, CO 80401

**Re: Daniels Sand Pit 2 - File No. M-1973-007-SG  
Holcim - WCR, Inc.  
Surety Increase (SI-1)  
Bond update related to TR11**

Dear Kevin Peart:

On March 14, 2025 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$1,411,315.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$372,815.00.

An updated bond is required prior to the final issuance of TR11.

On March 14, 2025, the Division ordered amendment of the current Financial Warranty or submittal of a new Financial Warranty reflecting the increase, within 60 days.

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, 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 if the amount of any increased Financial Warranty has not been provided by May 13, 2025.

Bond Held:	\$1,038,500.00
Prior Liability:	\$1,038,500.00
Change in Liability:	\$372,815.00
Revised Liability:	\$1,411,315.00
Prior Permit Acreage:	286.12



Change in Permit Acreage:	0.00
Revised Permit Acreage:	286.12
Prior Affected Acreage:	286.12
Change in Affected Acreage:	0.00
Revised Affected Acreage:	286.12

If you have any questions, please contact me by telephone at (720) 868-7757, or by email at [Hunter.ridley@state.co.us](mailto:Hunter.ridley@state.co.us).

Sincerely,



Hunter C. Ridley  
Environmental Protection Specialist

cc: Walt Wright

M-GR-04

## COST SUMMARY WORK

Task description: \_\_\_\_\_

Site: Daniels Sand Pit 2

Permit Action: TR11

Permit/Job#: M1973007SG

### PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 3/12/2025

County: El Paso

Filename: M007-000

User: HR1

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
E03	Forest/Shrub East Sediment Basin	REVEGE	1	80.00	\$9,499
E16	Backfill Reconstruction-S.side E. Sed basin	SCRAPER1	1	49.47	\$119,507
E17	Backfill Reconstruction-S.side New Sed basin	SCRAPER1	1	32.10	\$77,548
E18	Backfill Reconstruction-S. & SE sides of Sed basin	SCRAPER1	1	48.67	\$111,028
E19	Grade Embankment-W.side E. Sed basin (wash fines pond)	GRADER	1	5.09	\$1,404
P09	Replace TS on Pit Floor	SCRAPER1	1	77.87	\$182,665
P10	Seed Pit Floor	REVEGE	1	220.00	\$81,792
P11	Replace TS on Pit Slopes	SCRAPER1	1	123.52	\$289,757
P12	Seed Pit Slopes	REVEGE	1	200.00	\$91,185
W01	Backfill West Sediment Basin	TRUCK1	1	80.83	\$75,549
W02	Replace TS West Sediment Basin	TRUCK1	1	35.81	\$39,388
W3A	Seed West Sediment Basin	REVEGE	1	40.00	\$12,852
W3B	Forest/Shrub West Sediment Basin	REVEGE	1	40.00	\$4,176
Z99	Mob / Demob Equipment	MOBILIZE	1	1.44	\$9,469
<b><u>SUBTOTALS:</u></b>				<b>1034.8</b>	<b>\$1,105,819</b>

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$22,338

Performance bond: 1.05

Total = \$11,611

Job superintendent: 517.40

Total = \$41,014

Profit: 10.00

Total = \$110,582

TOTAL O & P = \$185,545

CONTRACT AMOUNT (direct + O & P) = \$1,291,364

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

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

Total = \$500

Engineering work and/or contract/bid preparation: 4.25

Total = \$54,883

Reclamation management and/or administration: 5.00

\$64,568

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$305,496

**TOTAL BOND AMOUNT (direct + indirect) = \$1,411,315**

**REVEGETATION WORK**Task description: Forest/Shrub East Sediment BasinSite: Daniels Sand Pit 2Permit Action: TR11Permit/Job#: M1973007SG**PROJECT IDENTIFICATION**Task #: E03State: ColoradoAbbreviation: NoneDate: 3/12/2025County: El PasoFilename: E03User: HR1Agency or organization name: DRMS**FERTILIZING****Materials**

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
	\$
<b>Total Tilling Cost/Acre</b>	<b>\$0.00</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
			\$
<b>Totals Seed Mix</b>	<b>0.00</b>	<b>0.00</b>	<b>\$0.00</b>

**Application**

Description	Cost /Acre
	\$

<b>Total Seed Application Cost/Acre</b>	<b>\$0.00</b>
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**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
Cottonwood, Narrowleaf	45	Small potted, 4.00 inch diameter (MEANS)	\$2.34	\$0.00	\$105.30
Willow, Sandbar	80	Tubling, 3 cu. in. container (MEANS)	\$1.34	\$0.00	\$107.20
<b>Totals Nursery Stock Cost / Acre</b>					<b>\$212.50</b>

**JOB TIME AND COST**

No. of Acres:	29.8	Cost /Acre:	\$212.50
Estimated Failure Rate:	50%	Cost /Acre*:	\$212.50
*Selected Replanting Work Items:	NURSERY		

Initial Job Cost:	<b>\$6,332.50</b>
Reseeding Job Cost:	<b>\$3,166.25</b>
Total Job Cost:	<b>\$9,499</b>
Job Hours:	<b>80.00</b>

**SCRAPER TEAM WORK**Task description: **Backfill Retruction-S.side E. Sed basin**Site: **Daniels Sand Pit 2**Permit Action: TR11Permit/Job#: M1973007SG**PROJECT IDENTIFICATION**Task #: E16State: ColoradoAbbreviation: NoneDate: 3/12/2025County: El PasoFilename: E16User: HR1Agency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 623G
-Dozer:	NA
Support Equipment -Load Area:	NA
-Dump Area:	Cat D8T - 8SU
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	NA	NA	100	NA	NA
Ownership cost/hour:	\$265.74	NA	NA	\$173.32	NA	NA
Operating cost/hour:	\$194.31	NA	NA	\$109.71	NA	NA
%Utilization-ripper:	NA	NA	NA	100	NA	NA
Ripper own. cost/hour:	NA	NA	NA	\$14.53	NA	NA
Ripper op. cost/hour:	NA	NA	NA	\$7.95	NA	NA
Operator cost/hour:	\$57.52	NA	NA	\$40.04	NA	NA
Unit Subtotals:	\$517.57	NA	NA	\$345.55	NA	NA
Number of Units:	4	0	0	1	0	0
Group Subtotals:	Work: \$2,070.28		Support: \$345.55		Maint:	\$0.00

Total work team cost/hour: **\$2,415.83****MATERIAL QUANTITIES**Initial volume: 29,973

CCY

Swell factor: 1.266Loose volume: **37,940**

LCY

Source of estimated volume: DRMS updated AM-03 Exhibit LSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Scraper Bowl (volume) Basis:

Material weight: 2,700 lbs/LCY  
 Material description: Sand and clay - Loose  
 Rated Payload: 55,200 pounds  
 Payload Capacity: 20.44 LCY

Struck Volume: 18.00 LCY  
 Heaped Volume: 23.00 LCY  
 Average Volume: 20.50 LCY  
 Adjusted Capacity: **20.44** LCY

Cycle Time:Scraper Loading Time: 0.90 MinutesManeuver and Spread Time: 0.70 MinutesJob Condition Correction:

Site Altitude: 5800 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: 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	2400.00	2.00	5.00	7.00	944	2.60

Haul Time: 2.60 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	2400.00	-2.00	5.00	3.00	2666	1.11

Return Time: 1.11 minutesTotal Scraper team cycle time: 5.31 minutesAdjusted for job conditions: 191.74 LCY/HourSelected Number of Scrapers: 4 Scraper(s)Adjusted single scraper team (unit) hourly production: 766.96 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 766.96 LCY/HourUnadjusted unit production/hour: 231.01 LCY/Hour

Optimal Number of Scrapers per push dozer: \_\_\_\_\_

**JOB TIME AND COST**Fleet size: 1 Team(s)Total job time: 49.47 HoursUnit cost: \$3.150 /LCYTotal job cost: \$119,507



**SCRAPER TEAM WORK**Task description: **Backfill Retruction-S.side New Sed basin**Site: **Daniels Sand Pit 2**Permit Action: TR11Permit/Job#: M1973007SG**PROJECT IDENTIFICATION**Task #: E17State: ColoradoAbbreviation: NoneDate: 3/12/2025County: El PasoFilename: E17User: HR1Agency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 623G
-Dozer:	NA
Support Equipment -Load Area:	NA
-Dump Area:	Cat D8T - 8SU
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	NA	NA	100	NA	NA
Ownership cost/hour:	\$265.74	NA	NA	\$173.32	NA	NA
Operating cost/hour:	\$194.31	NA	NA	\$109.71	NA	NA
%Utilization-ripper:	NA	NA	NA	100	NA	NA
Ripper own. cost/hour:	NA	NA	NA	\$14.53	NA	NA
Ripper op. cost/hour:	NA	NA	NA	\$7.95	NA	NA
Operator cost/hour:	\$57.52	NA	NA	\$40.04	NA	NA
Unit Subtotals:	\$517.57	NA	NA	\$345.55	NA	NA
Number of Units:	4	0	0	1	0	0
Group Subtotals:	Work: \$2,070.28		Support: \$345.55		Maint:	\$0.00

Total work team cost/hour: **\$2,415.83****MATERIAL QUANTITIES**Initial volume: 15,323

CCY

Swell factor: 1.266Loose volume: **19,396**

LCY

Source of estimated volume: DRMS updated AM-03 Exhibit LSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Scraper Bowl (volume) Basis:

Material weight: 2,700 lbs/LCY  
 Material description: Sand and clay - Loose  
 Rated Payload: 55,200 pounds  
 Payload Capacity: 20.44 LCY

Struck Volume: 18.00 LCY  
 Heaped Volume: 23.00 LCY  
 Average Volume: 20.50 LCY  
 Adjusted Capacity: **20.44** LCY

Cycle Time:Scraper Loading Time: 0.90 MinutesManeuver and Spread Time: 0.70 MinutesJob Condition Correction:

Site Altitude: 5800 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: 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	3400.00	2.00	5.00	7.00	944	3.66

Haul Time: 3.66 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	3400.00	-2.00	5.00	3.00	2666	1.48

Return Time: 1.48 minutesTotal Scraper team cycle time: 6.74 minutesAdjusted for job conditions: 151.06 LCY/HourSelected Number of Scrapers: 4 Scraper(s)Adjusted single scraper team (unit) hourly production: 604.23 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 604.23 LCY/HourUnadjusted unit production/hour: 182.00 LCY/Hour

Optimal Number of Scrapers per push dozer: \_\_\_\_\_

**JOB TIME AND COST**Fleet size: 1 Team(s)Total job time: 32.10 HoursUnit cost: \$3.998 /LCYTotal job cost: \$77,548

**SCRAPER TEAM WORK**Task description: **Backfill Retruction-S. & SE sides of Sed basin**Site: **Daniels Sand Pit 2**Permit Action: TR11Permit/Job#: M1973007SG**PROJECT IDENTIFICATION**Task #: E18State: ColoradoAbbreviation: NoneDate: 3/12/2025County: El PasoFilename: E18User: HR1Agency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 623G
-Dozer:	NA
Support Equipment -Load Area:	NA
-Dump Area:	Cat D6T LGP
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	NA	NA	100	NA	NA
Ownership cost/hour:	\$265.74	NA	NA	\$99.72	NA	NA
Operating cost/hour:	\$194.31	NA	NA	\$71.22	NA	NA
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	NA	\$0.00	NA	NA
Ripper op. cost/hour:	NA	NA	NA	\$0.00	NA	NA
Operator cost/hour:	\$57.52	NA	NA	\$40.04	NA	NA
Unit Subtotals:	\$517.57	NA	NA	\$210.98	NA	NA
Number of Units:	4	0	0	1	0	0
Group Subtotals:	Work: \$2,070.28		Support: \$210.98		Maint:	\$0.00

Total work team cost/hour: **\$2,281.26****MATERIAL QUANTITIES**Initial volume: 25,420

CCY

Swell factor: 1.266Loose volume: **32,177**

LCY

Source of estimated volume: DRMS updated AM-03 Exhibit LSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight: 2,700 lbs/LCY  
 Material description: Sand and clay - Loose  
 Rated Payload: 55,200 pounds  
 Payload Capacity: 20.44 LCY

Struck Volume: 18.00 LCY  
 Heaped Volume: 23.00 LCY  
 Average Volume: 20.50 LCY  
 Adjusted Capacity: **20.44** LCY

Cycle Time:Scraper Loading Time: 0.90 MinutesManeuver and Spread Time: 0.70 MinutesJob Condition Correction:

Site Altitude: 5800 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: 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	3000.00	2.00	5.00	7.00	944	3.23

Haul Time: 3.23 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	3000.00	-2.00	5.00	3.00	2666	1.33

Return Time: 1.33 minutesTotal Scraper team cycle time: 6.16 minutesAdjusted for job conditions: 165.28 LCY/HourSelected Number of Scrapers: 4 Scraper(s)Adjusted single scraper team (unit) hourly production: 661.13 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 661.13 LCY/HourUnadjusted unit production/hour: 199.13 LCY/Hour

Optimal Number of Scrapers per push dozer: \_\_\_\_\_

**JOB TIME AND COST**Fleet size: 1 Team(s)Total job time: 48.67 HoursUnit cost: \$3.451 /LCYTotal job cost: \$111,028

## MOTOR GRADER WORK

Task description: Grade Embankment-W.side E. Sed basin (wash fines pond)

Site: Daniels Sand Pit 2

Permit Action: TR11

Permit/Job#: M1973007SG

### PROJECT IDENTIFICATION

Task #: E19

State: Colorado

Abbreviation: None

Date: 3/12/2025

County: El Paso

Filename: E19

User: HR1

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: CAT 14M

Horsepower: 259

Ripper Attachment: \_\_\_\_\_

Shift Basis: 1 per day

Data Source: (CRG)

#### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$129.81	NA
Operating Cost/Hour:	\$89.13	100
Ripper Ownership Cost/Hour:	\$0.00	NA
Ripper Operating Cost/Hour:	\$0.00	
Operator Cost/Hour:	\$56.70	NA
Total Unit Cost/Hour:	\$275.64	
Total Fleet Cost/Hour:	<b>\$275.64</b>	

### MATERIAL QUANTITIES

Total Area to be graded or ripped: 10.00 acres

Source of estimated acreage: TR11 Dam Raise Study Grading Map Fig. 5 & Fig. 7

### HOURLY PRODUCTION

Average Grader Speed:	<u>1.50</u>	mph
Selected Application:	<u>Finish grading (0-2.5 mph) - 1.5</u>	
Selected Blade Angle:	<u>0</u>	degrees
Effective Blade Length:	<u>14.00</u>	feet
Width of blade overlap per pass:	<u>2.00</u>	feet
Net grading or ripping width per pass:	<u>12.00</u>	feet
Unadjusted Hourly Unit Production:	<u>2.1818</u>	acres/hour

#### Job Condition Correction Factors

Site Altitude: 5800 feet

		Source
Altitude Adj:	<u>1.00</u>	(CAT HB)
Job Efficiency:	<u>0.90</u>	(1sh/d, fav.)
Net Correction:	<u>0.9000</u>	multiplier

Adjusted Hourly Unit Production: 1.9636 acres/Hour

Adjusted Hourly Fleet Production: **1.9636** acres/Hour

### JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: **5.09** Hours

Unit cost: \$140.37 per acre Total job cost: **\$1,404**

**SCRAPER TEAM WORK**Task description: **Replace TS on Pit Floor**Site: **Daniels Sand Pit 2**Permit Action: TR11Permit/Job#: M1973007SG**PROJECT IDENTIFICATION**Task #: P09State: ColoradoAbbreviation: NoneDate: 3/12/2025County: El PasoFilename: P09User: HR1Agency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 623G
-Dozer:	NA
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance -Motor Grader:	CAT 14M
-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	NA	NA	NA	100	NA
Ownership cost/hour:	\$265.74	NA	NA	NA	\$129.81	NA
Operating cost/hour:	\$194.31	NA	NA	NA	\$89.13	NA
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	NA	NA	\$0.00	NA
Ripper op. cost/hour:	NA	NA	NA	NA	\$0.00	NA
Operator cost/hour:	\$57.52	NA	NA	NA	\$56.70	NA
Unit Subtotals:	\$517.57	NA	NA	NA	\$275.64	NA
Number of Units:	4	0	0	0	1	0
Group Subtotals:	Work: \$2,070.28		Support:	\$0.00	Maint:	\$275.64

Total work team cost/hour: **\$2,345.92****MATERIAL QUANTITIES**Initial volume: 59,209

CCY

Swell factor: 1.215Loose volume: **71,939**

LCY

Source of estimated volume: DRMS updated AM-03 Exhibit LSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight:	<u>1,600 lbs/LCY</u>	Struck Volume:	<u>18.00</u>	LCY
Material description:	<u>Top Soil</u>	Heaped Volume:	<u>23.00</u>	LCY
Rated Payload:	<u>55,200 pounds</u>	Average Volume:	<u>20.50</u>	LCY
Payload Capacity:	<u>34.50 LCY</u>	Adjusted Capacity:	<b><u>20.50</u></b>	LCY

Cycle Time:Scraper Loading Time: 0.90 MinutesManeuver and Spread Time: 0.70 MinutesJob Condition Correction:

Site Altitude: 5800 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: 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	2100.00	0.00	5.00	5.00	1292	1.70

Haul Time: 1.70 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	2100.00	0.00	5.00	5.00	2359	1.12

Return Time: 1.12 minutesTotal Scraper team cycle time: 4.42 minutesAdjusted for job conditions: 230.97 LCY/HourSelected Number of Scrapers: 4 Scraper(s)Adjusted single scraper team (unit) hourly production: 923.89 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 923.89 LCY/HourUnadjusted unit production/hour: 278.28 LCY/Hour

Optimal Number of Scrapers per push dozer: \_\_\_\_\_

**JOB TIME AND COST**Fleet size: 1 Team(s)Total job time: 77.87 HoursUnit cost: \$2.539 /LCYTotal job cost: \$182,665

**REVEGETATION WORK**Task description: Seed Pit FloorSite: Daniels Sand Pit 2Permit Action: TR11Permit/Job#: M1973007SG**PROJECT IDENTIFICATION**Task #: P10State: ColoradoAbbreviation: NoneDate: 3/12/2025County: El PasoFilename: P10User: HR1Agency or organization name: DRMS**FERTILIZING****Materials**

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
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
<b>Total Tilling Cost/Acre</b>	<b>\$117.61</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Switchgrass - Blackwell	2.00	17.86	\$26.44
Big Bluestem - Native	4.00	11.94	\$62.43
Sand Lovegrass - Bend	0.50	17.22	\$8.71
Blue Grama - Native	0.50	8.16	\$10.66
Sand Bluestem - Garden Co.	4.00	10.38	\$96.91
Pubescent Wheatgrass - Greenleaf	2.00	4.13	\$9.52
Tall Wheatgrass - Jose	3.00	5.44	\$17.24
Thickspike Wheatgrass - Critana	1.00	3.54	\$8.15
		78.66	<b>\$240.06</b>



<b>Totals Seed Mix</b>	17.00		
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**Application**

<b>Description</b>	<b>Cost /Acre</b>
Drill Seeding (DRMS Survey Cost)	\$236.64
<b>Total Seed Application Cost/Acre</b>	<b>\$236.64</b>

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

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

**Application**

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

**NURSERY STOCK PLANTING**

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

**JOB TIME AND COST**

No. of Acres: 110.1                      Cost /Acre: \$594.31  
 Estimated Failure Rate: 25%                      Cost /Acre\*: \$594.31  
 \*Selected Replanting Work Items: TILLING,SEEDING

Initial Job Cost: **\$65,433.53**  
 Reseeding Job Cost: **\$16,358.38**  
 Total Job Cost: **\$81,792**  
 Job Hours: **220.00**

**SCRAPER TEAM WORK**Task description: **Replace TS on Pit Slopes**Site: **Daniels Sand Pit 2**Permit Action: TR11Permit/Job#: M1973007SG**PROJECT IDENTIFICATION**Task #: P11State: ColoradoAbbreviation: NoneDate: 3/12/2025County: El PasoFilename: P11User: HR1Agency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 623G
-Dozer:	NA
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance -Motor Grader:	CAT 14M
-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	NA	NA	NA	100	NA
Ownership cost/hour:	\$265.74	NA	NA	NA	\$129.81	NA
Operating cost/hour:	\$194.31	NA	NA	NA	\$89.13	NA
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	NA	NA	\$0.00	NA
Ripper op. cost/hour:	NA	NA	NA	NA	\$0.00	NA
Operator cost/hour:	\$57.52	NA	NA	NA	\$56.70	NA
Unit Subtotals:	\$517.57	NA	NA	NA	\$275.64	NA
Number of Units:	4	0	0	0	1	0
Group Subtotals:	Work: \$2,070.28		Support:	\$0.00	Maint:	\$275.64

Total work team cost/hour: **\$2,345.92****MATERIAL QUANTITIES**Initial volume: 78,327

CCY

Swell factor: 1.215Loose volume: **95,167**

LCY

Source of estimated volume: DRMS updated AM-03 Exhibit LSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight:	<u>1,600 lbs/LCY</u>	Struck Volume:	<u>18.00</u>	LCY
Material description:	<u>Top Soil</u>	Heaped Volume:	<u>23.00</u>	LCY
Rated Payload:	<u>55,200 pounds</u>	Average Volume:	<u>20.50</u>	LCY
Payload Capacity:	<u>34.50 LCY</u>	Adjusted Capacity:	<b><u>20.50</u></b>	LCY

Cycle Time:Scraper Loading Time: 0.90 MinutesManeuver and Spread Time: 0.70 MinutesJob Condition Correction:

Site Altitude: 5800 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: 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	2100.00	3.00	5.00	8.00	822	2.58

Haul Time: 2.58 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	2100.00	0.00	5.00	5.00	2359	1.12

Return Time: 1.12 minutesTotal Scraper team cycle time: 5.30 minutesAdjusted for job conditions: 192.62 LCY/HourSelected Number of Scrapers: 4 Scraper(s)Adjusted single scraper team (unit) hourly production: 770.49 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 770.49 LCY/HourUnadjusted unit production/hour: 232.08 LCY/Hour

Optimal Number of Scrapers per push dozer: \_\_\_\_\_

**JOB TIME AND COST**Fleet size: 1 Team(s)Total job time: 123.52 HoursUnit cost: \$3.045 /LCYTotal job cost: \$289,757

**REVEGETATION WORK**Task description: Seed Pit SlopesSite: Daniels Sand Pit 2Permit Action: TR11Permit/Job#: M1973007SG**PROJECT IDENTIFICATION**Task #: P12State: ColoradoAbbreviation: NoneDate: 3/12/2025County: El PasoFilename: P12User: HR1Agency or organization name: DRMS**FERTILIZING****Materials**

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
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
<b>Total Tilling Cost/Acre</b>	<b>\$117.61</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Big Bluestem - Native	2.00	5.97	\$31.21
Sand Lovegrass - Bend	0.50	17.22	\$8.71
Blue Grama - Native	0.50	8.16	\$10.66
Little Bluestem - Native	1.00	5.97	\$15.39
Sideoats Grama - Butte	1.00	3.28	\$24.16
Sand Bluestem - Garden Co.	6.00	15.56	\$145.36
Pubescent Wheatgrass - Greenleaf	5.00	10.33	\$23.80
Thickspike Wheatgrass - Critana	5.00	17.68	\$40.74
Western Wheatgrass - Native	3.00	7.58	\$27.02
Prairie Sandreed - Goshen	2.00	12.53	\$34.05

<b>Totals Seed Mix</b>	26.00	104.28	<b>\$361.10</b>
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**Application**

Description	Cost /Acre
Broadcast seeding [DMG]	\$272.56
<b>Total Seed Application Cost/Acre</b>	<b>\$272.56</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:	97.1	Cost /Acre:	\$751.27
Estimated Failure Rate:	25%	Cost /Acre*:	\$751.27
*Selected Replanting Work Items:	TILLING,SEEDING		
Initial Job Cost:	\$72,948.32		
Reseeding Job Cost:	\$18,237.08		
Total Job Cost:	\$91,185		
Job Hours:	200.00		

**TRUCK/LOADER TEAM WORK**Task description: **Backfill West Sediment Basin**Site: **Daniels Sand Pit 2**Permit Action: **TR11**Permit/Job#: **M1973007SG****PROJECT IDENTIFICATION**Task #: **W01**State: **Colorado**Abbreviation: **None**Date: **3/12/2025**County: **El Paso**Filename: **W01**User: **HR1**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Shift basis: **1 per day**

Equipment Description	
Truck Loader Team -Truck:	Cat 740
-Loader:	CAT 980H
Support Equipment -Load Area:	NA
-Dump Area:	Cat D8T - 8SU
Road Maintenance -Motor Grader:	NA
-Water Truck:	NA

**Cost Breakdown:****Truck/Loader Team****Support Equipment****Maintenance Equipment**

	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	100	NA	NA
Ownership cost/hour:	\$108.25	\$69.00	NA	\$173.32	NA	NA
Operating cost/hour:	\$79.54	\$60.57	NA	\$109.71	NA	NA
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	\$0.00	NA	NA
Ripper op. cost/hour:	NA	\$0.00	NA	\$0.00	NA	NA
Operator cost/hour:	\$24.82	\$56.84	NA	\$40.04	NA	NA
Unit Subtotals:	\$212.61	\$186.41	NA	\$323.07	NA	NA
Number of Units:	2	1	0	1	0	0
Group Subtotals:	Work: \$611.63		Support: \$323.07		Maint: \$0.00	

Total work team cost/hour: **\$934.70****MATERIAL QUANTITIES**Initial volume: **45,496**

CCY

Swell factor: **1.000**Loose volume: **45,496**

LCY

Source of estimated volume: **AM-3, Exhibit L**Source of estimated swell factor: **Cat Handbook**Material Purchase Cost: **\$0.00**Total Cost: **\$0.00****HOURLY PRODUCTION****Truck Capacity:****Truck Payload (weight) Basis:**Material weight: **2,900**

Pounds/LCY

Description: **Sand and gravel - Dry**Rated Payload: **87,000**

Pounds

Payload Capacity: **30.00**

LCY

**Truck Bed (volume) Basis:**

Struck Volume:	24.20	LCY
Heaped Volume:	31.40	LCY
Average Volume:	27.80	LCY
Adjusted Volume:	30.00	LCY

Final Truck Volume Based on Number of Loader Passes: **29.25** LCY

**Loading Tool Capacity**

Bucket Size Class: NA

Rated Capacity:	7.500	LCY (heaped)
Bucket Fill Factor:	0.975	Sand and gravel (95% - 100%) 0.975
Adjusted Capacity:	<b>7.313</b>	LCY

**Job Condition Corrections:**

Site Altitude (ft.): 5800 feet

	<b>Truck</b>	<b>Loader</b>	<b>Source</b>
Altitude Adj:	0.960	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	<b>0.797</b>	<b>0.830</b>	

**Loading Tool Cycle Time:** Number of Loading Tool Passes Required to Fill Truck: 4 passes

**Excavators and Front Shovels:**

Machine Cycle Time vs. Job Condition Rating: NA  
 Selected Value within this Basic Rating: NA

Track Loaders – Material Description: \_\_\_\_\_

**Cycle Time Elements (min.):**

Load: NA      Maneuver: NA      Dump: 0.100

Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver): 0.550 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high and up 0.00	0.000	(Cat HB)
Truck Ownership:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Operation:	Constant operation -0.04	-0.040	(Cat HB)
Dump Target:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Net Cycle Time Adjustment:		-0.040	minutes
Adjusted Loader Cycle Time:		<b>0.510</b>	minutes
Net Load Time per Truck:		<b>1.630</b>	minutes

**Truck Cycle Time:**

Truck Exchange Time:	0.60	Minutes	Adjusted for site altitude:	0.625	Minutes
Truck Load Time:	1.630	Minutes	Adjusted for site altitude:	1.630	Minutes
Truck Maneuver and Dump Time:	1.00	Minutes	Adjusted for site altitude:	1.042	Minutes

**Truck Travel (Haul & Return) Time:**  
penetration 5.0

Road Condition: Rutted dirt, little maintenance, no water, 2" tire

## Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1500.00	0.00	5.00	5.00	1845	1.141

Haul Time: **1.141** minutes

## Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1500.00	0.00	5.00	5.00	3005	0.738

Return Time: **0.738** minutesTotal Truck Cycle Time: **5.176** minutes

## Loading Tool unit

Production 778.27 LCY/Hour      Adjusted for job efficiency: 645.96 LCY/Hour  
Truck Unit Production 339.09 LCY/Hour      Adjusted for job efficiency: 281.44 LCY/Hour

Optimal No. of Trucks: 2 Truck(s)      Selected Number of Trucks: 2 Truck(s)

Adjusted hourly truck team production: 562.88 LCY/Hour  
Adjusted single truck/loader team production: 562.88 LCY/Hour  
Adjusted multiple truck/loader team production: **562.88** LCY/Hour

**JOB TIME AND COST**

Fleet size: 1 Team(s)      Total job time: **80.83** Hours

Unit cost: \$1.661 /LCY      Total job cost: **\$75,549**



**TRUCK/LOADER TEAM WORK**Task description: **Replace TS West Sediment Basin**Site: **Daniels Sand Pit 2**Permit Action: **TR11**Permit/Job#: **M1973007SG****PROJECT IDENTIFICATION**Task #: **W02**State: **Colorado**Abbreviation: **None**Date: **3/12/2025**County: **El Paso**Filename: **W02**User: **HR1**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Shift basis: **1 per day**

Equipment Description	
Truck Loader Team -Truck:	Cat 740
-Loader:	CAT 980H
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance -Motor Grader:	CAT 14M
-Water Truck:	NA

**Cost Breakdown:****Truck/Loader Team****Support Equipment****Maintenance Equipment**

	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	NA	100	NA
Ownership cost/hour:	\$108.25	\$69.00	NA	NA	\$129.81	NA
Operating cost/hour:	\$79.54	\$60.57	NA	NA	\$89.13	NA
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	NA	\$0.00	NA
Ripper op. cost/hour:	NA	\$0.00	NA	NA	\$0.00	NA
Operator cost/hour:	\$24.82	\$56.84	NA	NA	\$56.70	NA
Unit Subtotals:	\$212.61	\$186.41	NA	NA	\$275.64	NA
Number of Units:	3	1	0	0	1	0
Group Subtotals:	Work: \$824.24		Support: \$0.00		Maint: \$275.64	

Total work team cost/hour: **\$1,099.88****MATERIAL QUANTITIES**Initial volume: **13,955**

CCY

Swell factor: **1.429**Loose volume: **19,936**

LCY

Source of estimated volume: **AM-3, Exhibits C-2 & L**Source of estimated swell factor: **Cat Handbook**Material Purchase Cost: **\$0.00**Total Cost: **\$0.00****HOURLY PRODUCTION****Truck Capacity:****Truck Payload (weight) Basis:**Material weight: **1,600**

Pounds/LCY

Description: **Top Soil**Rated Payload: **87,000**

Pounds

Payload Capacity: **54.38**

LCY

**Truck Bed (volume) Basis:**

Struck Volume:	24.20	LCY
Heaped Volume:	31.40	LCY
Average Volume:	27.80	LCY
Adjusted Volume:	31.40	LCY

Final Truck Volume Based on Number of Loader Passes: 29.25 LCY

**Loading Tool Capacity**

Bucket Size Class: NA

Rated Capacity:	7.500	LCY (heaped)
Bucket Fill Factor:	0.975	Sand and gravel (95% - 100%) 0.975
Adjusted Capacity:	<b>7.313</b>	LCY

**Job Condition Corrections:**

Site Altitude (ft.): 5800 feet

	<b>Truck</b>	<b>Loader</b>	<b>Source</b>
Altitude Adj:	0.960	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	<b>0.797</b>	<b>0.830</b>	

**Loading Tool Cycle Time:** Number of Loading Tool Passes Required to Fill Truck: 4 passes

**Excavators and Front Shovels:**

Machine Cycle Time vs. Job Condition Rating: NA  
 Selected Value within this Basic Rating: NA

Track Loaders – Material Description: \_\_\_\_\_

**Cycle Time Elements (min.):**

Load: NA Maneuver: NA Dump: 0.100

Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver): 0.550 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high and up 0.00	0.000	(Cat HB)
Truck Ownership:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Operation:	Constant operation -0.04	-0.040	(Cat HB)
Dump Target:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Net Cycle Time Adjustment:		-0.040	minutes
Adjusted Loader Cycle Time:		<b>0.510</b>	minutes
Net Load Time per Truck:		<b>1.630</b>	minutes

**Truck Cycle Time:**

Truck Exchange Time:	0.60	Minutes	Adjusted for site altitude:	0.625	Minutes
Truck Load Time:	1.630	Minutes	Adjusted for site altitude:	1.630	Minutes
Truck Maneuver and Dump Time:	1.00	Minutes	Adjusted for site altitude:	1.042	Minutes

Truck Travel (Haul & Return) Time:  
maintained 3.0

Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered,

## Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	5400.00	0.00	3.00	3.00	3005	2.589

Haul Time: **2.589** minutes

## Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	5400.00	0.00	3.00	3.00	3005	1.964

Return Time: **1.964** minutesTotal Truck Cycle Time: **7.850** minutes

## Loading Tool unit

Production 778.27 LCY/Hour      Adjusted for job efficiency: 645.96 LCY/Hour  
Truck Unit Production 223.58 LCY/Hour      Adjusted for job efficiency: 185.57 LCY/Hour

Optimal No. of Trucks: 3 Truck(s)      Selected Number of Trucks: 3 Truck(s)

Adjusted hourly truck team production: 556.71 LCY/Hour  
Adjusted single truck/loader team production: 556.71 LCY/Hour  
Adjusted multiple truck/loader team production: **556.71** LCY/Hour

**JOB TIME AND COST**Fleet size: 1 Team(s)      Total job time: **35.81** HoursUnit cost: \$1.976 /LCY      Total job cost: **\$39,388**

**REVEGETATION WORK**Task description: Seed West Sediment BasinSite: Daniels Sand Pit 2Permit Action: TR11Permit/Job#: M1973007SG**PROJECT IDENTIFICATION**Task #: W3AState: ColoradoAbbreviation: NoneDate: 3/12/2025County: El PasoFilename: W3AUser: HR1Agency or organization name: DRMS**FERTILIZING****Materials**

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
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
<b>Total Tilling Cost/Acre</b>	<b>\$117.61</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Switchgrass - Blackwell	2.00	17.86	\$26.44
Big Bluestem - Native	4.00	11.94	\$62.43
Sand Lovegrass - Bend	0.50	17.22	\$8.71
Blue Grama - Native	0.50	8.16	\$10.66
Sand Bluestem - Garden Co.	4.00	10.38	\$96.91
Pubescent Wheatgrass - Greenleaf	2.00	4.13	\$9.52
Tall Wheatgrass - Jose	3.00	5.44	\$17.24
Thickspike Wheatgrass - Critana	1.00	3.54	\$8.15
		78.66	<b>\$240.06</b>

<b>Totals Seed Mix</b>	17.00		
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**Application**

<b>Description</b>	<b>Cost /Acre</b>
Drill Seeding (DRMS Survey Cost)	\$236.64
<b>Total Seed Application Cost/Acre</b>	<b>\$236.64</b>

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

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

**Application**

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

**NURSERY STOCK PLANTING**

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

**JOB TIME AND COST**

No. of Acres: 17.3                      Cost /Acre: \$594.31  
 Estimated Failure Rate: 25%                      Cost /Acre\*: \$594.31  
 \*Selected Replanting Work Items: TILLING,SEEDING

Initial Job Cost: **\$10,281.56**  
 Reseeding Job Cost: **\$2,570.39**  
 Total Job Cost: **\$12,852**  
 Job Hours: **40.00**

**REVEGETATION WORK**Task description: Forest/Shrub West Sediment BasinSite: Daniels Sand Pit 2Permit Action: TR11Permit/Job#: M1973007SG**PROJECT IDENTIFICATION**Task #: W3BState: ColoradoAbbreviation: NoneDate: 3/12/2025County: El PasoFilename: W3BUser: HR1Agency or organization name: DRMS**FERTILIZING****Materials**

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
	\$
<b>Total Tilling Cost/Acre</b>	<b>\$0.00</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
			\$
<b>Totals Seed Mix</b>	0.00	0.00	<b>\$0.00</b>

**Application**

Description	Cost /Acre
	\$

<b>Total Seed Application Cost/Acre</b>	<b>\$0.00</b>
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**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
Cottonwood, Narrowleaf	45	Small potted, 4.00 inch diameter (MEANS)	\$2.34	\$0.00	\$105.30
Willow, Sandbar	80	Tubling, 3 cu. in. container (MEANS)	\$1.34	\$0.00	\$107.20
<b>Totals Nursery Stock Cost / Acre</b>					<b>\$212.50</b>

**JOB TIME AND COST**

No. of Acres: 13.1                      Cost /Acre: \$212.50  
 Estimated Failure Rate: 50%                      Cost /Acre\*: \$212.50  
 \*Selected Replanting Work Items: NURSERY

Initial Job Cost: **\$2,783.75**  
 Reseeding Job Cost: **\$1,391.88**  
 Total Job Cost: **\$4,176**  
 Job Hours: **40.00**

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: **Mob / Demob Equipment**Site: **Daniels Sand Pit 2**Permit Action: **TR11**Permit/Job#: **M1973007SG****PROJECT IDENTIFICATION**Task #: **Z99**State: **Colorado**Abbreviation: **None**Date: **3/12/2025**County: **El Paso**Filename: **Z99**User: **HR1**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:	\$10.44	\$22.18	\$23.94
Operating Cost/Hour:	\$26.48	\$54.55	\$55.65
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$59.44	\$122.78	\$125.64

**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	47.71	\$173.32	\$122.78	1	\$296.10	\$122.78	\$250.00
Cat 623G	41.35	\$265.74	\$122.78	4	\$1,554.08	\$491.12	\$1,000.00
Cat 740	36.49	\$108.25	\$122.78	3	\$693.09	\$368.34	\$750.00
CAT 14M	23.57	\$129.81	\$59.44	1	\$189.25	\$59.44	\$250.00
CAT 980H	33.12	\$69.00	\$122.78	1	\$191.78	\$122.78	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$41.02	\$59.44	1	\$100.46	\$59.44	\$250.00

Subtotals: **\$3,024.76** **\$1,223.90** **\$2,750.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
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Subtotals: **\$0.00** **\$0.00**



**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	<u>COLORADO SPRINGS</u>	
Total one-way travel distance:	<u>5.00</u>	miles
Average Travel Speed:	<u>45.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$9,468.91</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$0.00</u>
** one round trip, no haul rig:	

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.11</u>	<u>0.11</u>
Return Time (Hours):	<u>0.11</u>	<u>0.11</u>
Loading Time (Hours):	<u>0.25</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.25</u>	<u>NA</u>
Subtotals:	<u>0.72</u>	<u>0.22</u>

**JOB TIME AND COST**

Total job time:	<u>1.44</u>	Hours
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Total job cost:	<u>\$9,469</u>
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