

Lennberg - DNR, Patrick <patrick.lennberg@state.co.us>

M-1999-006 - Kurtz Sand, Gravel and Reservoir Project (P115) Financial Warranty Update Estimate

Lennberg - DNR, Patrick <patrick.lennberg@state.co.us>

Thu, Jul 3, 2025 at 5:43 AM

To: Peter Christensen <Peter.Christensen@respec.com> Cc: Garrett Varra <gvarra@raptormaterialsllc.com>, Jenna Lohmann <Jenna.Lohmann@respec.com>, Andy Geisler <ageisler@raptormaterialsllc.com>

Good Morning,

Please use this email as acknowledgement of receipt of the required documents for the Financial Warranty problem citation as well as notification of abatement of the problem.

I will get a copy of the materials into the permit file and follow up as needed.

If no additional follow up is needed the Division will issue a Surety Increase and Raptor will have 60 days from that date to post the additional warranty needed.

Please let me know if you have any questions.

Thank you, Patrick [Quoted text hidden]

Patrick Lennberg Environmental Protection Specialist



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

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Kurtz Resource Recovery & Land Development

Raptor Materials 112C Permit M 1999-006 Reclamation Cost Estimate Update

July 02, 2025

This submission is in response to a corrective action from a permit inspection conducted May 09, 2025. The specific action concerns the inadequacy of the current Financial Warranty. A formal update to Exhibit L has not been completed but will be pending determination the enclosed information is satisfactory to bring the Financial Warranty to be more current with the current status of the permit. Raptor Materials (Raptor) believes all information necessary to calculate the costs of reclamation is included in this submission.

Overview

The Kurtz (P115) permit, #M-1999-006, is currently serving primarily as a central processing facility for sand and gravel extracted primarily from the adjacent Raptor Materials, Parcel 122 – Bearson Resource Development Project (DRMS Permit #M-2015-033) and intended in the future to process material from an adjacent property currently being permitted (Cogburn Sand, Gravel, and Reservoir Project, (DRMS Permit #M-2025-016). In addition, some material remains to be extracted and processed from the Kurtz permit area.

The permit has 4 separate areas identified as Tracts A, B, C, and D labelled on the enclosed map updated for this submission from the most recent Annual Report filing.

Tract A is an extraction area where a minor amount of material remains to be extracted. An amendment will be submitted prior to August 31, 2025 also satisfying a corrective action in the most recent inspection report. This amendment will propose permitting the Tract A excavation as a lined water storage reservoir. Much (~70%) of the Tract A excavation has been regraded and lined with this post mining land use in mind.

Tract B currently contains the dry processing plant with the wet processing plant currently situated in the northwest corner of Tract A. Material from the Bearson permit is delivered to this area via a conveyor belt. Product stockpiles, including a large sand pile (approximately 200,000 cubic yards (CY) as of the last survey on June 11, 2025 exist in various locations within Tract B. Minor excavation is ongoing in Tract B and these excavations are proposed to be backfilled to no longer expose ground water as part of final reclamation.

Tract C contains an excavation currently being backfilled to no longer expose groundwater and this activity is proposed to continue.

Tract D has minor excavations remaining to be backfilled to no longer expose groundwater. This area is currently in active use as part of the construction of a water pipeline by the City of Thorton.

As extraction activities are currently minimal and reclamation activities are ongoing in Tracts C and D, Raptor proposes the worst case scenario for reclamation in the event of default is the current state of the operation. A general approach to reclamation of the operation left in its current state assumes:

- Tract A excavation will fill with water and require dewatering to complete grading and liner construction. A significant amount of fill material has been stored in the Tract A excavation and this will be used in backfilling excavations in Tracts B, C, and D to ensure groundwater is no longer exposed. Existing ponds in Tract A will be backfilled unless they can be shown to satisfy the State Engineer requirements for lined storage.
- 2. The large sand pile in Tract B will be pushed using tracked dozers into adjacent existing excavations. Additional fill material to ensure groundwater is no longer exposed will be sourced from Tract A.
- 3. The exposed groundwater in Tracts C and D will be eliminated through backfilling of those areas.
- 4. Topsoil is currently being stored on the adjacent Bearson property (DRMS Permit #M-2015-033) and will be conveyed using the existing conveyor to Tract B from where it will be distributed to all areas of the Kurtz permit to a depth of six inches.
- 5. The conveyor will be removed and while likely to have salvage value greater than the cost of recovery, a cost has been included in the estimate for removal.
- 6. The processing plant is all portable equipment and is conservatively assumed to be salvaged with no residual value.
- 7. Other items including truck scales, concrete pads and small structures will be removed.

Estimates of the work required to complete the above reclamation of the Kurtz operation include material properties, material quantities, material transport distances. Equipment productivity and fleet requirements are generally based on Cat Handbook and in some cases supported by previous DRMS methodology. The physical quantities and equipment requirements support cost estimates using rates either from recent DRMS reclamation cost estimates prepared in CIRCES, or other sources as noted.

The enclosed map provides a site wide overview of key elements. The following sections provide more detail on specific elements of the estimate which are then documented in the attached costing sheets patterned on CIRCES output.

Tract A: Dewater



Pond Volume at static GW elevation (4793'): 5,018,171 CY (surface subtract in CAD)

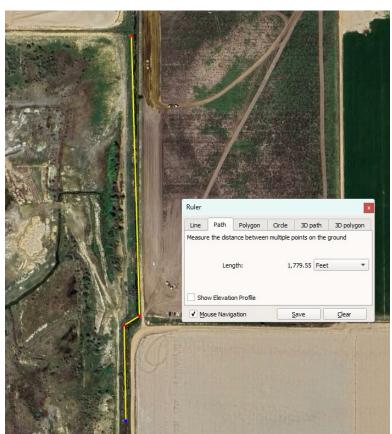
Tract A

Tract A: re-grade and re-line – west wall



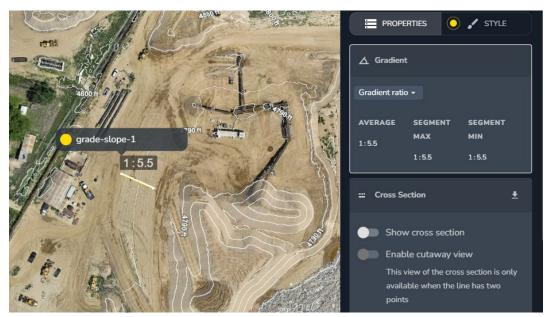
NOTE: Actual distance measured on CAD drawing as 715 feet

Tract A: re-grade and re-line – east wall

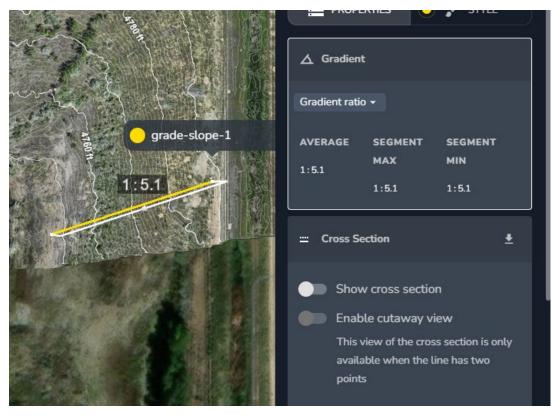


NOTE: Actual distance measured on CAD drawing as 1,820 feet

Tract A: slope - west wall existing slope



Tract A: slope - east wall existing slope



Tract A: Stored fill material



Updated topographic survey of this area of the pit has been ordered. The area stored fill material is approximately 714,000 sq. feet, with the west side estimated to be 30 feet deep grading down to zero feet on the pit floor on the east side. A conservative volume estimate from this geometry is 395,000 LCY of material.

Tract A: Liner and fill source material



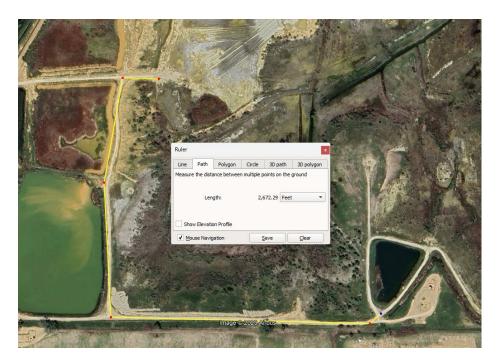
Shale, claystone and clay material are found as bedrock below the extracted sand and gravel. This material has proven to be suitable in several previously constructed reservoirs by Raptor and predecessor Varra. More than adequate material exists that can be ripped and transported for constructing compacted liner surfaces, or as borrow material to fill other excavations.

Tract A: Liner Material Haul Distance

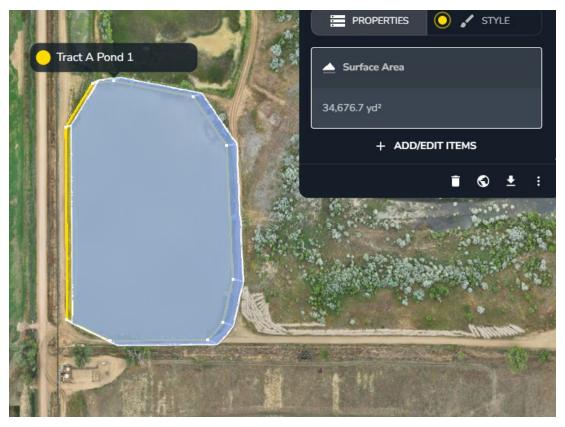


Tract A: Ponds Backfill Haul Distances

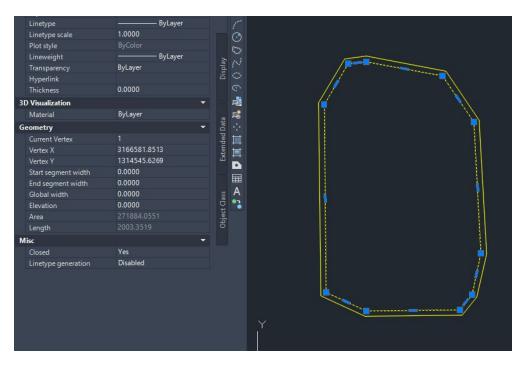




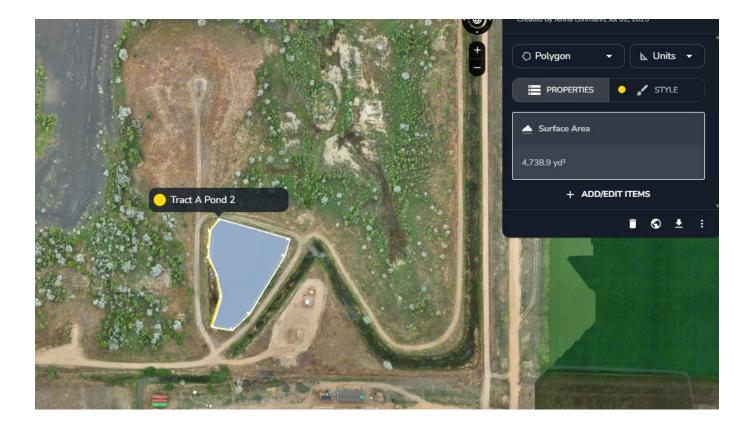
Tract A: Ponds to Backfill



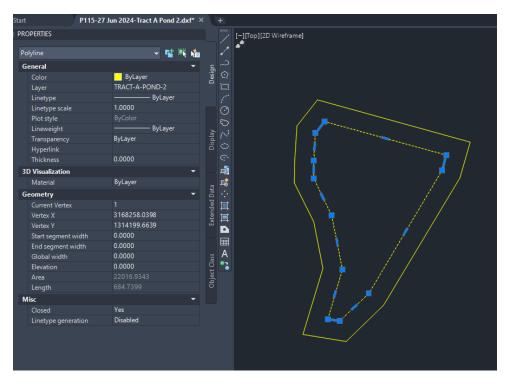
Offset Pond surface at 3:1 slope:



Pond depth is approximately 5'. Assume 3:1 slopes. Backfill to 2' Above WSEL. B1 = 34676.7SY; B2 = (271884 SF / 9) = 30209.3 SY; H = (5+2) = 7' = 2.33 yd Backfill Vol [CY] = ½ x [B1(34676.7 SY)+B2(30209.3 SY)]*H(2.33yd) = 75,700.3 CY



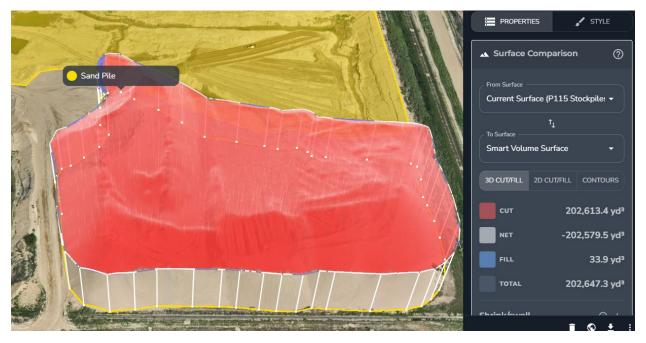
Offset Pond surface at 3:1 slope:



Pond depth is approximately 8'. Assume 3:1 slopes. Backfill to 2' Above WSEL. B1 = 4738.9SY; B2 = (22016 SF / 9) = 2446.3 SY; H = (8+2) = 10' = 3.33 ydBackfill Vol [CY] = $\frac{1}{2} \times [B1(4738.9 \text{ SY})+B2(2446.3 \text{ SY})]^*H(3.33\text{ yd}) = \frac{11,963.4 \text{ CY}}{11,963.4 \text{ CY}}$

Tract B

Tract B: Sand Pile Volume



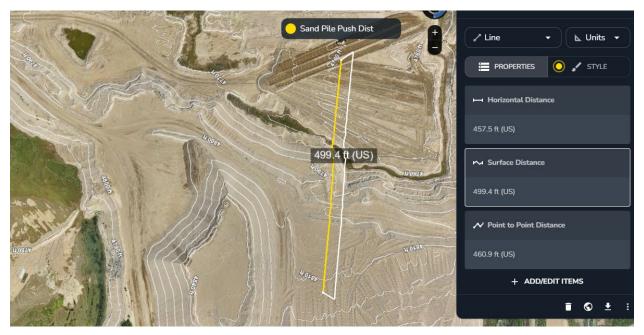
This volume was the current volume of sand stored above grade as of a topographic survey of the stockpile areas on June 11, 2025. This material would be pushed into the adjacent excavation immediately to the north.



Tract B: Receiving Pit Capacity for Sand Pile

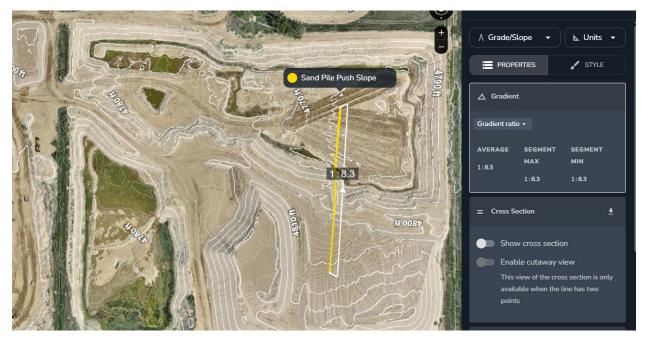
The required backfill volume for the Tract B excavation will be partially filled by pushed material from the sand stockpile. The sand will partially fill the excavation and an additional 129,611 LCY of fill material will be hauled from available fill or borrowed fill in Tract A.

Tract B: Sand Pile Push Distance



Average push distance from approximate centroid of stockpiled sand to excavation.

Tract B: Sand Pile Push Gradient



Average push gradient from approximate centroid of stockpiled sand to excavation measured at -1V:8.3H or -12%.

Tract B: Pond to Backfill

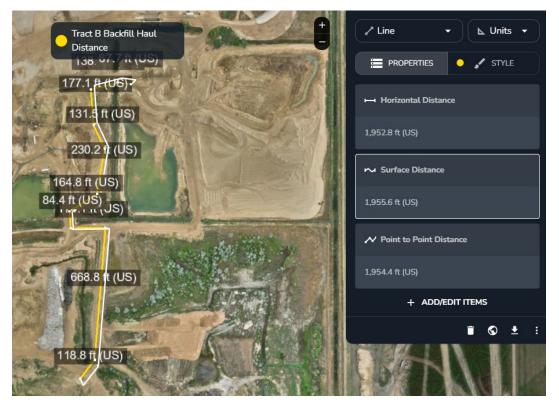


Offset Pond surface at 3:1 slope:

Polyline	👻 📑 🍂 🐔	1	2
General	•	E	
Color	ByLayer	Design	
Layer			
Linetype	ByLayer		
Linetype scale	1.0000		\odot
Plot style	ByColor		ő
Lineweight	ByLayer		
Transparency	ByLayer		
Hyperlink			୍
Thickness	0.0000		
3D Visualization	•		г <mark>а</mark> й
Material	ByLayer		.∎\$
Geometry	•	Extended Data	
Current Vertex		led	×
Vertex X	3167426.8610	tend	Ī
Vertex Y	1316589.6555	E.	₽
Start segment width	0.0000		
End segment width	0.0000		■
Global width	0.0000	ass	A •
Elevation	0.0000	Ę	•
Area		Object Class	
Length		0	
Misc	-		
Closed	No		
Linetype generation	Disabled		

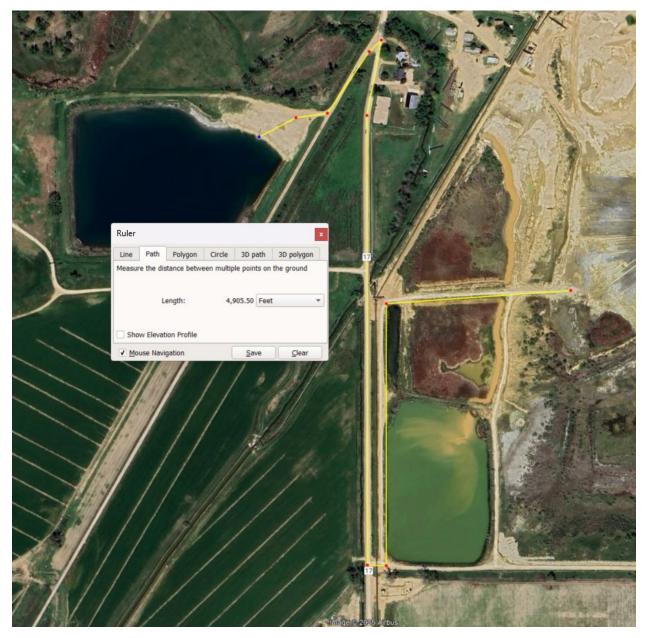
Pond depth is approximately 14'. Assume 3:1 slopes. Backfill to 2' Above WSEL. B1 = 6232.6SY; B2 = (21208 SF / 9) = 2356.5 SY; H = (14+2) = 16' = 5.33 ydBackfill Vol [CY] = $\frac{1}{2} \times [B1(6323.6 \text{ SY})+B2(2356.5 \text{ SY})]*H(5.33yd) = \frac{23,132.5 \text{ CY}}{23,132.5 \text{ CY}}$

Tract B: Backfill Haul Distance



Tract C

Tract C: Backfill Haul Distance

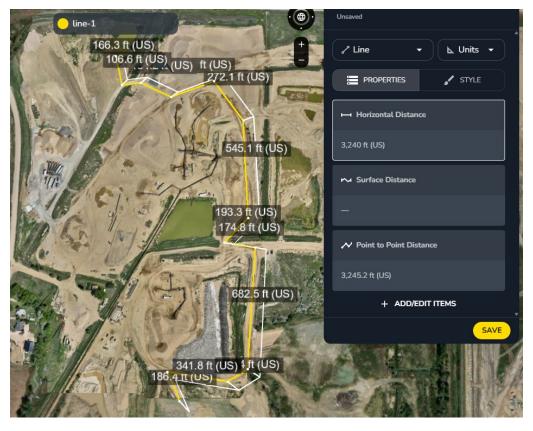


Tract D

Tract D: Being Backfilled

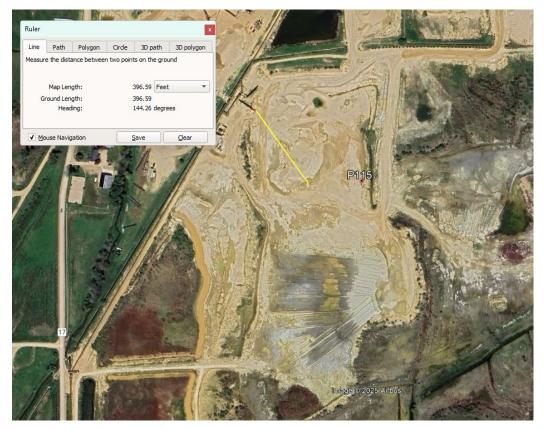


Tract D: Backfill Haul Distance



Topsoil Haul Distance

Tract A – Topsoil Haul Distance



Tract B – Topsoil Haul Distance



Tract C – Topsoil Haul Distance





Tract D – Topsoil Haul Distance

Structures to be Removed

Scale house and scale:



Quonset hut materials storage and fuel tank



Culverts at south edge of pond in Tract C



COST SUMMARY WORK

Task description Site:

2025 Financial Warranty Update M1999-006 - Kurtz Sand, Gravel and Reservoir Project (P115)

Permit Action:

Task	Description	Form Used	Fleet Size	Task Hours	Cost
<u>01a</u>	Tract A: Dewater Pond - initial pumping	PUMPING	2	691	\$426,422
<u>01b</u>	Tract A: Dewater Pond - continual pumping	PUMPING	1	126	\$12,367
<u>01c</u>	Tract A: Grade slope under liner	DOZER	2	79	\$54,070
<u>01d</u>	Tract A: Rip source material for liner	DOZER	2	15	\$10,639
<u>01e</u>	Tract A: Haul liner and backfill material from Tract A source	TRUCK	3	258	\$131,906
<u>01f</u>	Tract A: Mix material for liner	DOZER	2	50	\$33,881
<u>01g</u>	Tract A: Compact liner	COMPACT	1	66	\$16,762
<u>02a</u>	Tract B: Push sand stockpile into pit	DOZER	2	274	\$211,774
<u>02b</u>	Tract B: Haul backfill materials from Tract A source to pit and pond	TRUCK	4	260	\$162,485
<u>03a</u>	Tract C: Haul backfill material from Tract A source to Pond	TRUCK	6	679	\$584,644
<u>04a</u>	Tract D: Haul backfill material from Tract A source	TRUCK	5	24	\$17,674
<u>05a</u>	Haul topsoil to all disturbed areas	TRUCK	3	176	\$111,190
<u>05b</u>	Seed all disturbed areas		-	-	\$313,006
<u>06a</u>	Demo and remove concrete and conveyor	DEMOLISH	-	-	\$324,612
<u>07a</u>	Mobilization and Demob.	MOBILIZE	1	2	\$11,154
			SUBTOTALS:	1415	\$1,983,797.43

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02		Total =	\$40,073
Performance bond:	1.05		Total =	\$20,830
Job superintendent:	707.75	\$79.27	Total =	\$56,103
Profit:	10.00		Total =	\$198,380
		-	TOTAL O & P =	\$315,386
	CONTRA	CT AMOUNT (direct + O & P)=	\$2,299,183

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty	500.00	
Engineering work	4.25	
Reclamation	5.00	
CONTINGENCY:	3.00	

Total =	\$500
Total =	\$97715
	\$114,959
Total =	\$59,514

TOTAL INDIRECT COST =	\$588,074
TOTAL BOND AMOUNT (direct + indirect) =	\$2,571,871

Yellow cells are where data is input

Green cells is the data output with the completed formula

Cells in red indicate cells that were not necessary for completion of the cost estimate

Return to Summary Task description:	<u>Dewater Tract A</u>	<u>. pit - initial pumping</u>			
Site:	Kurtz Sand, Gravel and <u>Reservoir Project</u>	Permit Action:	2025 Financial Warranty Update	Permit/Job#:	<u>M1999006</u>

PROJECT IDENTIFICATION

Task #: <u>01A</u>	State:	Colorado
Date: 6/23/2025	County:	Weld
User: <u>JEL</u>		

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

	Description	Quantity
Make and Model:	Submersible pump - 460v, 8 in.	8
Attachment 1:	Suction hose - 6 in. diam., 25 ft.	8
Attachment 2:	Discharge hose - 6 in. D., 25 ft.	8
Labor Unit 1:	Pump operator	2

Horsepower: 95 Shift Basis: 1 per day Weight: 0.70 (US Tons)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$49.45	NA
Operating Cost/Hour:	\$20.60	100
Operator Cost/Hour:	\$28.23	NA
Total Unit Cost/Hour:	\$70.05	per pump
Total Fleet Cost/Hour:	\$616.86	plus two operators

PUMPING QUANTITIES

Initial Pond Volume:	1,013,540,070		Conversion factor:	1.0000
Final Pond Volume:	1,013,540,070	gallons		
Total Pond Inflow Surface Area:	C) Sq. ft.	Unit inflow rate in gph/sq. ft.:	0.0000
Total Pond Inflow Volume per Hour:	0.00) gallons		

Source of estimated volume: Volume extraction from June 2024 Propeller Surface

 Tract A Pond at Static GW Elevation (4793') [yd3]:
 5,018,171

 Tract A Pond at Static GW Elevation (4793') [gal]:
 1,013,540,070

PUMPING TIME

Maximum Pump Capacity:	170,000	gph/pump
Estimated Suction Head:	0	feet
Estimated Discharge Head:	15	feet
Total Head:	15	feet
CPB Pump Capacity:	168,000	gph/pump
Site Altitude:	4,800	feet
Adjusted Pumping Capacity:	1,344,000	gph
Initial Unadjusted Pumping	754.12	hours
Inflow during Initial Pumping:	0	gallons
Net Unadjusted Pumping Time:	754.12	Hours
Altitude Adjustment Factor:	1.0000	(3% rule)
Pump Efficiency Factor:	0.9167	(55 min./hr.)
Total Adjusted Pumping Time:	691.28	hours

JOB TIME AND COST

Unit cost:

\$0.000421 /Gallon

Total job time:	691.28	Hours
Total job cost:	\$426,422	

Return to Summary

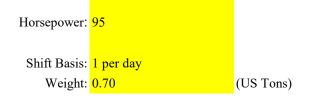
Task description:	Dewater Tract A pit - continual pumping			
Site:	Kurtz Sand, Gravel and Reservoir Project	2025 Financial Warranty Update	Permit/Job#:	<u>M1999006</u>

PROJECT IDENTIFICATION

Task #: <u>01B</u>	State:	Colorado
Date: 6/23/2025	County:	Weld
User: <u>JEL</u>		
Agency or organization name: DRMS		

HOURLY EQUIPMENT COST

	Description	Quantity
Make and Model:	Submersible pump - 460v, 8 in.	1
Attachment 1:	Suction hose - 6 in. diam., 25 ft.	1
Attachment 2:	Discharge hose - 6 in. D., 25 ft.	1
Labor Unit 1:	Pump operator	1



Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$49.45	NA
Operating Cost/Hour:	\$20.60	100
Operator Cost/Hour:	\$28.23	NA
Total Unit Cost/Hour:	\$70.05	per pump
Total Fleet Cost/Hour:	\$98.28	plus one operator

PUMPING QUANTITIES

Initial Pond Volume:	23,062,846		Conversion factor:	1.0000
Final Pond Volume: Total Pond Inflow Surface	23,062,846	gallons	Unit inflow rate in	
Area:	0	Sq. ft.	gph/sq. ft.:	0.0000
Total Pond Inflow Volume per Hour:	r	0.00 gallons		

Location	Inflow (mgd)*	<u>Pond/Pit perimeter</u> (ft)	<u>Avg pond</u> perimeter exposed (ft)	Pctg of Tot Inflow	Inflow over 25 days (gal)	Inflow (gal/hr)
P125 Pit B P115 Tract A	2.1 3.8	,	5,290 2,535	88.71 23.74		80,212 38,438

Avg pond

*Inflow rate calculated proportionately based on dewatering estimate at adjacent cell P125 Pit B, estimated in the AWES P125 Dewatering Memo (10/28/2024).

AWES Dewatering Memo inflow rate. P115 Pond A inflow rate proportional to average length of exposed pond perimeter. Assumes no dewatering in adjacent cells. Source of estimated volume:

PUMPING TIME

Maximum Pump Capacity:	170,000	gph/pump
Estimated Suction Head:	0	feet
Estimated Discharge Head:	15	feet
Total Head:	15	feet
CPB Pump Capacity:	168,000	gph/pump
Site Altitude:	4,800	feet
Adjusted Pumping Capacity:	168,000	gph
Initial Unadjusted Pumping	137.28	hours
Inflow during Initial Pumping:	0	gallons
Net Unadjusted Pumping Time:	137.28	Hours
Altitude Adjustment Factor:	1.0000	(3% rule)
Pump Efficiency Factor:	0.9167	(55 min./hr.)
Total Adjusted Pumping Time:	125.84	hours

JOB TIME AND COST

Unit cost:

\$0.000536 /Gallon

Total job time:	125.84	Hours
Total job cost:	\$12,367	

Total Dewatering Cost:

438,789.55

Return to Summary

BULLDOZER WORK

Task description:

Grade slope under liner

Kurtz Sand, Gravel and Reservoir Project Site:

Permit Action:

2025 Financial Warranty Update

Permit/Job#: <u>M1999006</u>

PROJECT IDENTIFICATION

Task #: 01C	State:	Colorado
	Date:	6/24/2025
	User	JEL
Agency or organization name: DRMS	County:	Weld

HOURLY EQUIPMENT COST

Basic Machine:	<u>Cat D8T - 8SU</u>
Horsepower:	310
Blade Type:	Semi-Universal
Attachment:	<u>1-shank ripper</u>
Shift Basis:	<u>1 per day</u>
Data Source:	<u>(CRG)</u>

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$173.32	NA
Operating Cost/Hour:	\$109.71	100
Ripper own. Cost/Hour:	\$14.53	NA
Ripper op. Cost/Hour:	\$3.98	50
Operator Cost/Hour:	\$40.04	NA
Total unit Cost/Hour:	\$341.58	
Total Fleet Cost/Hour:	\$683.16	

MATERIAL QUANTITIES

Initial Volume:	110,500	CY
Swell factor:	1.120	
Loose volume:	123,760	LCY
Source of estimated volume:	Propeller flight 6/11/25. Assume walls will be regraded to 3:1.	
Exterior perimter length		
Interior perimeter length		
Linear Feet		LF
Length		ft
Depth		ft
Source of estimated swell factor:	Wisconsin DOT	https:/

East wall length (ft):	1820
East wall height (ft):	40
West wall length (ft):	715
West wall height (ft):	10
Approx EX Wall Slopes (H:V):	5:1
East wall vol. to regrade (CY):	107852
West wall vol. to regrade (CY):	2648
Total vol. to regrade (CY):	110500

HOURLY PRODUCTION

Average push distance:	<u>50 feet</u>	
Unadjusted hourly production:	1,400.00	LCY/hr
Materials consistency description:	Partly consolidated wall slope	
Average push gradient:	20%	
Average site altitude:	<u>4,800</u>	
Material weight:	<u>2900 lbs/LCY</u>	
Weight description:	Dry sand and gravel	

Job Condition Correction F actor

Source

0.750	(AVG.)
0.800	(CAT HB)
1.000	(GEN.)
1.000	(AVG.)
0.830	(1 SHIFT/DAY)
0.900	(SSD-FC)
1.400	(CAT HB)
1.000	(CAT HB)
0.890	(CAT HB)
1.000	(PAT)
0.5585	
	0.800 1.000 1.000 0.830 0.900 1.400 1.000 0.890 1.000

Adjusted unit production:	781.84	LCY/hr
Adjusted fleet production:	1563.68	LCY/hr

JOB TIME AND COST

Fleet size:	2	Dozer(s)
Unit cost:	\$0.437	/LCY
Total job time:	79.15	Hours
Total job cost:	\$54,070	

estimated from CAT HB (June 2022) p. 16-10: Bulldozers - Estimating Production Off-the-Job

Return to Summary BULLDOZER RIPPING WORK

Task description: Rip liner and backfill material source area in Tract A

Site:	Kurtz Sand, Gravel and F	Reservoir Project		Permit Action:	2025 Financial Warranty Update	Permit/Job#:
PROJECT IDEN	FIFICATION					
Task #: 01D	State:	Colorado				
Date: 7/01/2025	County:	Weld				
User: <u>JEL</u>						
Agency or organization r	ame: DRMS					
HOURLY EQUI	MENT COST					
Basic Machine:	<u>Cat D8T - 8SU</u>		Horsepower	: 310		
Ripper Attachment:	3-Shank Ripper		Shift Basis	: <u>1 per day</u>		
			Data Source	:: <u>(CRG)</u>		
Cost Breakdown:						
	Utilization %					
Ownership Cost/Hour:	\$173.32 NA					Total backfill/liner material
Operating Cost/Hour:	\$109.71 100					Tract A
Ripper Ownership Cost/Hour:	<mark>\$14.53</mark> NA	_				Tract B
Ripper Operating Cost/Hour:	<mark>\$7.95</mark> 100					Tract C
Operator Cost/Hour:	<mark>\$40.04</mark> NA					Tract D
Total Unit Cost/Hour:	\$345.55					TOTAL:
Total Fleet Cost/Hour:	\$691.10					
			Selected estimating method	: <u>Area</u>		Available Fill
MATERIAL QUANT	TIES					Tract A - existing fill stocks
Alternate Methods:						Tract A - liner regrade
						TOTAL:
Seismic: <u>NA</u>		Bank Volume:	<u>NA</u>	BCY	NA	
Area: 19.13	acres	Rip Depth (ft):	2.56	Volume:	78,992 CY	Fill Required
		Ē	Exhibit C-2			Swell factor:

Source of estimated quantity: See Individual Tract TRUCK|LOADER sheets

M1999006

ial needed

126,621 LCY
135,844 LCY
317,211 LCY
12,485 LCY
592,161 LCY
(excludes sand pile)

ks

Excavation Fill Required

HOURLY PRODUCTION

Seismic:

Seismic Velocity: <u>NA</u> feet/second

Area:

Average Ripping Depth: 2.56 feet/pass 7.08 feet/pass Average Ripping Width: Average Ripping Length: 150.00 feet/pass 88.00 feet/minute Average Dozer Speed: minutes/pass Average Maneuver Time: 0.25 0.748 acres/hour Production per unit area: 3,091 CY/hr

No of lifts:

1

Job Condition Correction Factors

Unadjusted Hourly Unit Production:	0.748	CY/hr
Site Altitude:	4,680	feet
Altitude Adj:	1.00	(CAT HB)
Job Efficiency:	0.83	(1 shift/day)
Net Correction:	0.83	multiplier
Adjusted Hourly Unit	0.621	acres/hour
Production:		
Adjusted Hourly Fleet	1.24	/1
Production:	1.24	acres/hr

JOB TIME AND COST

Fleet size: Unit cost:

2 Dozers \$556.28 Per acre

Total job time:	15.39	Hours
Total job cost:	\$10,639	

Return to Summary						
TRUCK/LOADER TEAM	<u>1 WORK</u>					
Task description:	Haul shale/clay to Tract	A unlined walls to construct liner				
Site:	Kurtz Sand, Gravel a	nd Reservoir Project Permit Action:		2025 Financial Warranty Update		
				Permit/Job#:	M1999006	
PROJECT IDENTIFICAT	<u>'ION</u>					
Task #:	01E	State:	Colorado)		
Date:	6/24/2025	County:	Weld	l		Tract A I
User:	JEL					Tract A I
Agency or organization name:	DRMS					Tract A I
						Tract A
HOURLY EQUIPMENT O	COST	Shift basis: <u>1 per c</u>	lay			Tract A V
Equipment Description						Tract A
Truck Loader Team -Truck:	Generic 12-18 cy, 6x4					Total Slo
-Loader:	CAT 966H high lift					Liner De
Support Equipment -Load Area:	NA					Liner Vo
-Dump Area:	NA					4'x 4' Ke
Road Maintenance – Motor Grader:	NA					Total Lir
-Water Truck:	Water Tanker, 3,500 Gal.					

Cost Breakdown: Truc	ck/Loader Team Support Equipment		Maintenance Equipment			
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine	100	75	NA	NA	25	25
Ownership cost/hour	\$27.14	\$57.78	NA	NA	\$52.82	\$11.65
Operating cost/hour	\$62.81	\$34.69	NA	NA	\$10.94	\$5.61
%Utilization-riper	NA	\$0.00	NA	NA	NA	NA
Ripper own. cost/hour	NA	\$0.00	NA	NA	\$0.00	\$0.00
Ripper op. cost/hour	NA	\$0.00	NA	NA	\$0.00	\$0.00
Operator cost/hour	\$24.82	\$56.64	NA	NA	\$56.70	\$0.00
Unit Subtotals	\$114.77	\$149.11	NA	NA	NA	\$17.26
Number of Units	3	1	0	0	0	1
Group Subtotals	Work:	\$493.42	Support:	\$0.00	Maint:	\$17.26
Total work team cost/hour:	\$510.68					

MATERIAL QUANTITIES

Initial volume:	126,621	CCY
Loose volume:	126,621	LCY

Swell factor:

1.000

1820
40
126
715
10
32
252824
4
37455
1502
38958
75700
11963.4
87664

Source of estimated volume:	Propeller flight 6/11/25. Assume walls will be regraded to 3:1. No liner was discussed in the orginal permit documents. A liner depth of 4 ft with a 4'x4' keyway from the P125 site (in process of permitting) was used.	
Source of estimated swell factor:	Wisconsin DOT - avg of clay (1.3) and shale (1.025)	https://wisconsindot.gov/documents2/research/0092-22-05-final-report.pdf
Material Purchase Cost: Total Cost:	\$0.00 \$0.00	

HOURLY PRODUCTION

Truck Capacity:							
Truck Payload (weight) Basis:							
Material weight:	2,450	Pounds/LCY					
Description:	Clay and Shale						
Rated Payload:	50,300	Pounds					
Payload Capacity:	20.53	LCY					

Truck Bed (volume) Basis:

Struck Volume:	12.00	LCY	
Heaped Volume:	18.00	LCY	
Average Volume:	15.00	LCY	
Adjusted Volume:	18.00	LCY	
	Final Truck Volume Based on Number of Loader Passes:	15.75	LCY

Loading Tool Capacity

Bucket Size Class NA

Rated Capacity:	5.000	LCY (heaped)	
Bucket Fill Factor:	1.050	Other - moist loam (100-110%) 1.050	
Adjusted Capacity:	5.250	LCY	

Job Condition Corrections:

Site Altitude (ft.): 4,800

	Truck	Loader	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Loading Tool Cycle Time:		Number of LoadingTool	Passes Required to Fill Truck:	3	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.):						
	NA Maneuver:	NA	Dump:	0.100		
Wheel and Track Loa	ders - Unadjusted Basic Loader Cycle Time (load, d	ump, maneuver):	0.500	minutes		
Cycle Time Factors		Factor (min.)	Source		<u>Material Destir Haul Di</u>	i <u>st (ft)</u> Hau
Material:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)		Liner	1240
Stockpile:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)		Pond 1	836
Truck Ownership:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)		Pond 2	2672
Operation:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)			
Dump Target:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)		Total weighted haul dis	st (ft):
	Net Cycle Time Adjustment:	0.000	minutes			

0.500

1.100

minutes

minutes

Truck Cycle Time:

Truck Exchange Time:	0.50	Minutes
Truck Load Time:	1.100	Minutes
Truck Maneuver and Dump Time:	() 9()	Minutes

1240

Adjusted for site altitude:	0.500	Minutes
Adjusted for site altitude:	1.100	Minutes
Adjusted for site altitude:	0.900	Minutes

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (tom)	Travel Time (min)
1	1238.00	0.00	3.00	3.00	1460	0.848
				Haul Time:	0.848	minutes

Adjusted Loader Cycle Time:

Net Load Time per Truck:

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1238.00	0.00	3.00	3.00	1604	0.772
				Return Time:	0.772	minutes
				Total Truck Cycle Time:	4.120	minutes

aul Dist weighted by Hauled Vol (ft)

382 500 252

1134

Loading Tool unit Production	590.63	LCY/Hour
Truck Unit Production	229.39	LCY/Hour
Optimal No. of Trucks:	2.6	Truck(s)

Adjusted for job efficiency:	490.22	LCY/Hour
Adjusted for job efficiency:	190.39	LCY/Hour
Selected Number of Trucks:	3.0	Truck(s)

\$131,906

Adjusted hourly truck team production: Adjusted single truck/loader team production: Adjusted multiple truck/loader team production

490.22 LCY/Hour 490.22 LCY/Hour	s
490.22 LCY/Hour	

Total job cost:

JOB TIME AND COST

Fleet size: Unit cost:

1	Team(s)
\$1.042	/LCY

BULLDOZER WORK

Task description:

Mix material for liner

Kurtz Sand, Gravel and Reservoir Project Site:

2025 Financial Warranty Update Permit Action:

PROJECT IDENTIFICATION

Task #: 01F

State: Colorado Date: User

6/24/2025 JEL

Weld

County

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine:	<u>Cat D8T - 8SU</u>
Horsepower:	310
Blade Type:	<u>Semi-Universal</u>
Attachment:	<u>3-shank ripper</u>
Shift Basis:	<u>1 per day</u>
Data Source:	<u>(CRG)</u>

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$173.32	NA
Operating Cost/Hour:	\$109.71	100
Ripper own. Cost/Hour:	\$14.53	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$40.04	NA
Total unit Cost/Hour:	\$337.60	
Total Fleet Cost/Hour:	\$675.20	

MATERIAL QUANTITIES

		-
Initial Volume:	63,311	CY
Swell factor:	1.163	
Loose volume:	73,599	LCY
	Assumed half volume of liner material (Task 02B)	
Area		ac
Depth		ft
Source of estimated swell factor:	Wisconsin DOT - avg of clay (1.3) and shale (1.025)	https:/

ps://wisconsindot.gov/documents2/research/0092-22-05-final-report.pdf

Permit/Job#: <u>M1999006</u>

HOURLY PRODUCTION

Average push distance:	<u>50</u>	
Unadjusted hourly production:	1,400.00	LCY/hr
Materials consistency description:	Clay and Shale	
Average push gradient:	<mark>0%</mark>	
Average site altitude:	<u>4,800</u>	
Material weight:	2,450 lbs/LCY	
Weight description:	Avg of clay and shale	

Job Condition Correction F

actor

		Source
Operator Skill:	0.750	
Material consistency:	1.100	(AVG.)
Dozing method:	1.000	(CAT HB)
Visibility:	1.000	(GEN.)
Job efficiency:	0.830	(AVG.)
Spoil pile:	0.900	(1 SHIFT/DAY)
Push gradient:	1.000	(SSD-FC)
Altitude:	1.000	(CAT HB)
Material Weight:	0.850	(CAT HB)
Blade type:	1.000	(CAT HB)
Net correction:	0.5238	(PAT)

Adjusted unit production:	733.37 LCY/hi		
Adjusted fleet production:	1466.73	LCY/hr	

JOB TIME AND COST

Fleet size:	2	Dozers
Unit cost:	\$0.460	/LCY
Total job time:	50.18	Hours
Total job cost:	\$33,881	

COMPACTION WORK

Task de	scription:	Comp	oact liner						
Site:		Kurtz San	id, Gravel and R	eservoir Project			Permit Action:	2025 Financial Warranty Update	Permit/Job#:
PROJEC	<u>f identif</u>	TICATION							
Task #:	01G		State:	Colorado					
Date:	6/24/2025		County:	Weld					
User:	JEL								
Ager	ncy or organiz	zation name:	DRMS						
<u>]</u>	HOURLY H	EQUIPMENT	COST						
Basic N	Machine:	<u>CAT 815F</u>			Horsepower:	240			
Compac	tor Type:	<u>Soil - ta</u>	mping foot		Shift Basis:	<u>1 per day</u>			
					Data Source:	(CRG)			
Cost Breake	down:								
					Utilization %				
		Ownershi	p Cost/Hour:	\$107.16	NA				
		Operating	g Cost/Hour:	\$117.19	100				
		Operator	Cost/Hour:	\$31.50	NA				
		Total Uni	it Cost/Hour:	\$255.85					
		Total Flee	et Cost/Hour:	\$255.85	Ī				

MATERIAL QUANTITIES

Loose volume:	126,621	LCY	Shrinkage factor:	0.910
Compacted volume:	115,225	CCY		
Source of estimated volume:		Same as hauled	d quantity (Task 01B)	
Source of estimated shrinkage factor:		Cat Handbo	ok	

HOURLY PRODUCTION

Compacted width per pass (W):	6.50	feet
Average Compactor Speed (S):	8.00	mph
Compacted thickness of each lift (L):	10.00	inches
Conversion Constant (C):	16.3	(5,280ft./12in./ 27cu.ft.)
Required number of machine passes (P):	4	passes
Unadjusted Hourly Unit Production:	2,119.00	CCY/hour
		Site Altitude:

4,

4,800 ft

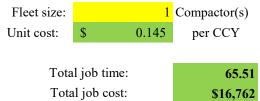
M1999006

Job Condition Correction Factors

Source		
Altitude Adj:	1.00	(CAT HB)
Job Efficiency:	0.83	(1 shift/day)
Net Correction:	0.8300	multiplier

Adjusted Hourly Unit Production:	1,758.77	CCY/Hour
Adjusted Hourly Fleet Production:	1,758.77	CCY/Hour

JOB TIME AND COST



BULLDOZER WORK

Task description: Tract B: Push sand pile into adjacent pit

Site:	Kurtz Sand, Gravel and Reservoir Project	Permit Action:	2025 Financial Warranty Update

PROJECT IDENTIFICATION

Task #: 02A

State: Colorado Date: 6/24/2025

User

JEL

;

County

Weld

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine:	<u>Cat D10T</u>
Horsepower:	310
Blade Type:	Semi-Universal
Attachment:	2-shank ripper
Shift Basis:	<u>1 per day</u>
Data Source:	<u>(CRG)</u>

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$174.79	NA
Operating Cost/Hour:	\$136.68	100
Ripper own. Cost/Hour:	\$22.93	NA
Ripper op. Cost/Hour:	\$12.04	5
Operator Cost/Hour:	\$40.04	NA
Total unit Cost/Hour:	\$386.48	
Total Fleet Cost/Hour:	\$772.97	

MATERIAL QUANTITIES

Initial Volume:	202,613	CY
Swell factor:	1.000	
Loose volume:	202,613	СY
Source of estimated volume:	measurement	
Source of estimated swell factor:	Wisconsin DOT	ļ

https://wisconsindot.gov/documents2/research/0092-22-05-final-report.pdf

Sand Pile Vol (LCY):202,613Receiving Pit Capacity (CY):332,224

Permit/Job#: <u>M1999006</u>

HOURLY PRODUCTION

Average push distance:	<u>500</u>	
Unadjusted hourly production:	400	LCY/hr
Materials consistency description:	Sand stockpile	
Average push gradient:	12%	
Average site altitude:	<u>4,800</u>	
Material weight:	<u>2,600 lbs/LCY</u>	
Weight description:	Sand	

Job Condition Correction F actor

Source

Ref Cat HB-49, 19-55

Operator Skill:	0.750	(AVG.)
Material consistency:	1.200	(CAT HB)
Dozing method:	1.100	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.900	(SSD-FC)
Push gradient:	1.250	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.000	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.9244	

Adjusted unit production:	369.77	LCY/hr
Adjusted fleet production:	739.53	LCY/hr

JOB TIME AND COST

Fleet size:	2	Dozer(s)
Unit cost:	\$1.045	/LCY
Total job time:	273.98	Hours
Total job cost:	\$211,774	

Return to Summary TRUCK/LOADER TEAM	I WORK							
Task description:	Haul backfill material to	Tract B pit and pond						
Site:	Kurtz Sand, Gravel an	ad Reservoir Project	Permit Action:		2025 Financial Warranty Update			
					Permit/Job#:	M1999006		
PROJECT IDENTIFICAT	TION							
Task #	: <u>02B</u>	State	:	Colorado)			
Date	: 7/02/2025	Count	/:	Weld	l			
User	: <u>JEL</u>							
Agency or organization name:	DRMS							
HOURLY EQUIPMENT	COST	S	hift basis: <u>1 per da</u>	IV				
Equipment Description	<u> </u>		<u> </u>					
Truck Loader Team -Truck	: Generic 12-18 cy, 6x4							
-Loader	: CAT 966H high lift							
Support Equipment -Load	¹ NA							Tract B Pond
Area								Hact D Pollu
-Dump Area								Tract B Rema
Road Maintenance – Motor	NΔ							
Grader								
-Water Truck	: Water Tanker, 3,500 Gal.						Vol to fill Tract B pit r	lot filled by sand pil
Cost Brookdown True	vk/Loader Team	Support Equipment	Mair	ntenance F	auinment			

Cost Breakdown: Truc	k/Loader Team	Support Equipment	Maintenance Ec	luipment		
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	75	NA	NA	NA	25
Ownership cost/hour:	\$27.14	\$57.78	NA	NA	\$52.82	\$11.65
Operating cost/hour:	\$62.81	\$34.69	NA	NA	\$10.94	\$5.61
%Utilization-riper:	NA	\$0.00	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Operator cost/hour:	\$24.82	\$56.64	NA	NA	\$56.70	\$0.00
Unit Subtotals:	\$114.77	\$149.11	NA	NA	NA	\$17.26
Number of Units:	4	1	0	0	0	1
Group Subtotals:	Work:	\$608.19	Support:	\$0.00	Maint:	\$17.26
Total work team cost/hour:	\$625.45					

Pond to be Backfilled [CY]:	6,233
Remaining Pit to be Backfilled [CY]:	129,611

ile and pond [yd3]:

135,844

MATERIAL QUANTITIES

Initial volume:	135,844	CY
Loose volume:	135,844	LCY
		1
Source of estimated volume:	Propeller volume measurement (6/11/25 flight)	
Source of estimated swell factor:	Wisconsin DOT	
Material Purchase Cost:	\$0.00	
Total Cost:	\$0.00	

https://wisconsindot.gov/documents2/research/0092-22-05-final-report.pdf

1.000

Swell factor:

HOURLY PRODUCTION

Truck Capacity:

Truck Payload (weight) Basis:

Material weight:	2,900	Pounds/LCY
Description:	Dry sand and gravel	
Rated Payload:	50,300	Pounds
Payload Capacity:	17.34	LCY

Truck Bed (volume) Basis:

Struck Volume:	12.00	LCY	
Heaped Volume:	18.00	LCY	
Average Volume:	15.00	LCY	
Adjusted Volume:	18.00	LCY	
	Final Truck Volume Based on Number of	15.75	LCY

Loading Tool Capacity

Bucket Size Class NA

Rated Cap	acity:	5.000	LCY (heaped)	
Bucket Fill F	actor:	1.050	Other - moist loam (100-	110%) 1.050
Adjusted Cap	acity:	5.250	LCY	

Job Condition Corrections:

Site Altitude (ft.): 4680

	Truck	Loader	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Loading Tool Cycle Time:

Number of Loading Tool Passes Required to Fill Truck: 3

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 Lo	aders - Unadjusted Basic Loa	ader Cycle Time (loa	d, dump, maneuver):	0.500	minutes

Cycle Time Factors		Factor (min.)	Source
Material:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Stockpile:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Truck Ownership:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Operation:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Dump Target:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
	Net Cycle Time Adjustment:	0.000	minutes
	Adjusted Loader Cycle Time:	0.500	minutes
	Net Load Time per Truck:	1.500	minutes

Truck Cycle Time:

Truck Exchange Time:	0.50	Minutes
Truck Load Time:	1.500	Minutes
Truck Maneuver and Dump Time:	() 9()	Minutes

Adjusted for site altitude:	0.500	Minutes
Adjusted for site altitude:	1.100	Minutes
Adjusted for site altitude:	0.900	Minutes

Haul Route: Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1956.00	0.00	3.00	3.00	1398	1.400
		•		Haul Time:	1.400	minutes
Return Route:		-				Troval Time

	Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
	1	1956.00	0.00	3.00	3.00	1499	1.305
_					Return Time:	1.305	minutes

Loading Tool unit Production	630.00	LCY/Hour
Truck Unit Production	168.61	LCY/Hour
Optimal No. of Trucks:	3.7	Truck(s)

Adjusted for job efficiency:	522.90	LCY/Hour
Adjusted for job efficiency:	139.95	LCY/Hour
Selected Number of Trucks:	4	Truck(s)

5.605

minutes

Total Truck Cycle Time:

		Adjusted hourly truck team production: Adjusted single truck/loader team production: Adjusted multiple truck/loader team production	522.90 522.90 522.90	LCY/Hour LCY/Hour LCY/Hour	
JOB TIME AND COST		5 1 1			
Fleet size:	1	Team(s)	Total job time:	259.79	Hours
Unit cost:	\$1.196	/LCY	Total job cost:	\$162,485	

TRUCK/LOADER TEAM WORK

Support Equipment -Load

Road Maintenance - Motor

NA

CAT 120M

-Water Truck: Water Tanker, 3,500 Gal.

Area: -Dump Area: NA

Grader:

Task description:	Haul backfill material to	Tract C Pond				
Site:	Kurtz Sand, Gravel an	nd Reservoir Project	Permit Action:		2025 Financial Warranty Update	
					Permit/Job#:	<u>M1999006</u>
PROJECT IDENTIFICAT	ION					
Task #:	<u>03A</u>	State:		Colorado		
Date:	6/23/2025	County:		Weld		
User:	JEL					
Agency or organization name:	DRMS					
HOURLY EQUIPMENT (<u>COST</u>	Sh	ift basis: <u>1 per da</u>	Y		
Equipment Description						
Truck Loader Team -Truck:	Generic 12-18 cy, 6x4					
-Loader:	CAT 966H high lift					

Cost Breakdown:	Гruck/Loader Team		Support Equipment	Maintenance Eq	luipment		
	Truck		Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-mac	nine:	100	75	NA	NA	25	25
Ownership cost/l	iour:	\$27.14	\$57.78	NA	NA	\$52.82	\$11.65
Operating cost/l	iour:	\$62.81	\$34.69	NA	NA	\$10.94	\$5.61
%Utilization-r	iper:	NA	\$0.00	NA	NA	NA	NA
Ripper own. cost/l	iour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Ripper op. cost/l	iour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Operator cost/l	iour:	\$24.82	\$56.64	NA	NA	\$56.70	\$0.00
Unit Subto	otals:	\$114.77	\$149.11	NA	NA	\$120.46	\$17.26
Number of U	nits:	5	1	0	0	1	1
Group Subto	otals:	Work:	\$722.96	Support:	\$0.00	Maint:	\$137.72
Total work team cost/hour:		\$860.68					

Vol to fill Tract C Pond to 2' above WSEL [yd3]:

317,211

MATERIAL QUANTITIES

Initial volume:	317,211	CY
Loose volume:	317,211	LCY
		I
Source of estimated volume:	See POND BACKFILL CALCS_v1 from Brian Ewert	
Source of estimated swell factor:	Cat Handbook	
Material Purchase Cost:	\$0.00	
Total Cost:	\$0.00	

HOURLY PRODUCTION

<u>Truck Capacity:</u>

Truck Payload (weight) Basis:		
Material weight:	1,600	Pounds/LCY
Description:	Top Soil	
Rated Payload:	50,300	Pounds
Payload Capacity:	31.44	LCY

Truck Bed (volume) Basis:

Struck Volume:	12.00	LCY	
Heaped Volume:	18.00	LCY	
Average Volume:	15.00	LCY	
Adjusted Volume:	18.00	LCY	
	Final Truck Volume Based on Number of	15.75	LCY

Loading Tool Capacity

Bucket Size Class NA

Rated Capacity:	5.000	LCY (heaped)
Bucket Fill Factor:	1.050	Other - moist loam (100-110%) 1.050
Adjusted Capacity:	5.250	LCY

Job Condition Corrections:

Site Altitude (ft.): 4680

	Truck	Loader	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Loading Tool Cycle Time:

Number of Loading Tool Passes Required to Fill Truck: 3

Swell factor:

1.000

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:

d:		NA		Maneuver:		NA	Dump	: 0.100
	Wheel and Track Loa	aders - Una	djusted Basic Lo	bader Cycle Tim	e (load, d	ump, maneuver):	0.500) minutes

Cycle Time Factors		Factor (min.)	Source
Material:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Stockpile:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Truck Ownership:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Operation:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Dump Target:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
	Net Cycle Time Adjustment:	0.000	minutes
	Adjusted Loader Cycle Time:	0.500	minutes
	Net Load Time per Truck:	1.500	minutes

Truck Cycle Time:

Truck Exchange Time:	0.50	Minutes
Truck Load Time:	1.500	Minutes
Truck Maneuver and Dump Time:	(),9()	Minutes

Adjusted for site altitude:	0.500	Minutes
Adjusted for site altitude:	1.100	Minutes
Adjusted for site altitude:	0.900	Minutes

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (tnm)	Travel Time (min)
1	4906.00	0.00	3.00	3.00	1754	2.796
				Haul Time:	2.796	minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	4906.00	0.00	3.00	3.00	1816	2.702
				Return Time:	2.702	minutes
				Total Truck Cycle Time:	8.398	minutes

Loading Tool unit Production	630.00	LCY/Hour
Truck Unit Production	112.53	LCY/Hour
Optimal No. of Trucks:	5.6	Truck(s)

Adjusted for job efficiency:	522.90	LCY/Hour
Adjusted for job efficiency:	93.40	LCY/Hour
Selected Number of Trucks:	5	Truck(s)

\$584,644

Adjusted hourly truck team production: Adjusted single truck/loader team production: Adjusted multiple truck/loader team production

466.98 466.98	LCY/Hour LCY/Hour	
466.98	LCY/Hour	
Total job time:	679.28	Hours

Total job cost:

JOB TIME AND COST

Fleet size: Unit cost:

1	Team(s)
\$1.843	/LCY

Return to Summary						
TRUCK/LOADER TEAM	<u>1 WORK</u>					
Task description:	Haul backfill material to Tract D expose	ed groun	dwater_			
Site:	Kurtz Sand, Gravel and Reservoir P	roject	Permit Action:		2025 Financial Warranty Update	
					Permit/Job#:	M1999006
PROJECT IDENTIFICAT	TION					
Task #:	: <u>04A</u>	State		Colorado		
Date:	: 6/25/2025	County		Weld		
User:	: <u>JEL</u>					
Agency or organization name:	DRMS					

HOURLY EQUIPMENT COST

Equipment Description

z qanpinene z esempion	
Truck Loader Team -Truck:	Generic 12-18 cy, 6x4
-Loader:	CAT 966H high lift
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance – Motor Grader:	NA
	Water Tanker, 3,500 Gal.

Cost Breakdown: Truck/Loader Team Support Equipment Maintenance Equipment Loader Dump Area Motor Grader Water Truck Load Area Truck %Utilization-machine: 100 75 NA NA NA 25 Ownership cost/hour: \$27.14 \$57.78 NA NA \$52.82 \$11.65 \$5.61 Operating cost/hour: \$62.81 \$34.69 NA NA \$10.94 NA %Utilization-riper: NA \$0.00 NA NA NA NA \$0.00 NA NA \$0.00 \$0.00 Ripper own. cost/hour: NA \$0.00 NA NA \$0.00 \$0.00 Ripper op. cost/hour: \$56.64 NA NA \$56.70 \$0.00 \$24.82 Operator cost/hour: \$114.77 \$149.11 NA NA NA \$17.26 Unit Subtotals: Number of Units: 5 0 0 \$722.96 Support: \$0.00 Group Subtotals: Work: Maint: \$17.26 Total work team cost/hour: \$740.22

Shift basis: 1 per day

Vol to fill Tract D exposed GW area [yd3]:

12,485

MATERIAL QUANTITIES

Initial volume:	12,485	CY
Loose volume:	12,485	LCY
	er volume ement (6/11/25	
Source of estimated swell Wiscons	sin DOT	
Material Purchase Cost:	\$0.00	
Total Cost:	\$0.00	

https://wisconsindot.gov/documents2/research/0092-22-05-final-report.pdf

1.000

Swell factor:

HOURLY PRODUCTION

Truck Capacity:

Truck Payload (weight) Basis:

Material weight:	2,900	Pounds/LCY
Description:	Dry sand and gravel	
Rated Payload:	50,300	Pounds
Payload Capacity:	17.34	LCY

Truck Bed (volume) Basis:

Struck Volume:	12.00	LCY	
Heaped Volume:	18.00	LCY	
Average Volume:	15.00	LCY	
Adjusted Volume:	18.00	LCY	
	Final Truck Volume Based on Number of	15.75	LCY

Loading Tool Capacity

Bucket Size Class NA

Rated Capacity:	5.000	LCY (heaped)
Bucket Fill Factor:	1.050	Other - moist loam (100-110%) 1.050
Adjusted Capacity:	5.250	LCY

Job Condition Corrections:

Site Altitude (ft.): 4680

	Truck	Loader	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Loading Tool Cycle Time:

Number of Loading Tool Passes Required to Fill Truck: 3

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 Load	ders - Unadjusted Basic Loader Cyclo	e Time (load, dump, maneuver):	0.500 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Stockpile:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Truck Ownership:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Operation:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Dump Target:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
	Net Cycle Time Adjustment:	0.000	minutes
	Adjusted Loader Cycle Time:	0.500	minutes
	Net Load Time per Truck:	1.500	minutes

Truck Cycle Time:

Truck Exchange Time:	0.50	Minutes
Truck Load Time:	1.500	Minutes
Truck Maneuver and Dump Time:	() 9()	Minutes

Adjusted for site altitude:	0.500	Minutes
Adjusted for site altitude:	1.100	Minutes
Adjusted for site altitude:	0.900	Minutes

passes

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (tnm)	Travel Time (min)
1	3240.00	0.00	3.00	3.00	1614	2.008
				Haul Time:	2.008	minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	3240.00	0.00	3.00	3.00	1694	1.913
				Return Time:	1.913	minutes
				Total Truck Cycle Time:	6.820	minutes

Loading Tool unit Production	630.00	LCY/Hour
Truck Unit Production	138.55	LCY/Hour
Optimal No. of Trucks:	4.5	Truck(s)

Adjusted for job efficiency:	522.90	LCY/Hour
Adjusted for job efficiency:	115.00	LCY/Hour
Selected Number of Trucks:	5	Truck(s)

Adjusted hourly truck team production: Adjusted single truck/loader team production: Adjusted multiple truck/loader team production

522.90 LCY/Hour 522.90 LCY/Hour	522.90	LCY/Hour
522.90 LCY/Hour	522.90	LCY/Hour
	522.90	LCY/Hour

Total job time:	23.88	Hours
Total job cost:	\$17,674	

JOB TIME AND COST

Fleet size: Unit cost:

1 Team((s)
\$1.416 /LCY	

TRUCK/LOADER TEAM WORK

Task description:Haul topsoil to Tracts A, B, C, D

a.,	
Site	
Site.	

Kurtz Sand, Gravel and Reservoir Project Permit Action:

State:

County:

2025 Financial Warranty Update Permit/Job#: <u>M1999006</u>

PROJECT IDENTIFICATION

Task #:05ADate:6/25/2025User:JELAgency or organization name:DRMS

HOURLY EQUIPMENT COST

Shift basis: <u>1 per day</u>

Colorado Weld

Equipment Description	
Truck Loader Team -Truck:	Generic 12-18 cy, 6x4
-Loader:	CAT 966H high lift
Support Equipment -Load Area:	NA
Area:	1 1 1
-Dump Area:	
Road Maintenance – Motor Grader:	САТ 120М
Grader:	CAT 120M
-Water Truck:	Water Tanker, 2,500 Gal.

Cost Breakdown: Truck/Loader Team Support Equipment Maintenance Equipment Loader Dump Area Motor Grader Water Truck Truck Load Area %Utilization-machine: 100 75 NA NA 25 2: Ownership cost/hour: \$27.14 \$57.78 NA NA \$ 52.82 \$11.65 \$5.61 \$62.81 \$34.69 NA NA \$ 10.94 Operating cost/hour: %Utilization-riper: NA NA NA NA NA 0 NA \$0.00 NA NA \$ \$0.00 Ripper own. cost/hour: NA NA NA \$ \$0.00 Ripper op. cost/hour: \$0.00 NA \$0.00 \$24.82 \$56.64 NA \$ 56.70 Operator cost/hour: NA NA \$17.26 Unit Subtotals: \$114.77 120.46 \$149.11 Number of Units: 2 0 ſ Group Subtotals: Work: \$493.42 Support: \$0.00 Maint: \$137.72 Total work team cost/hour: \$631.14

MATERIAL QUANTITIES

	10	
Initial volume:	92,121	CCY
Loose volume:	92,121	LCY
Source of estimated volume:	Apply 6" topsoil to disturbed surfaces on all Tracts. Areas estimated from Propeller flight P115 on 6/11/2025, except for Tract C Pond disturbed area provided in POND BACKFILL CALCS by Brian Ewert.	
Source of estimated swell factor:	Cat Handbook	
Material Purchase Cost:	\$0.00	
Total Cost:	\$0.00	

HOURLY PRODUCTION

<u>Truck Capacity:</u>		
Truck Payload (weight) Basis:		
Material weight:	1,600	Pounds/LCY
Description:	Top Soil	
Rated Payload:	50,300	Pounds
Payload Capacity:	31.44	LCY

Truck Bed (volume) Basis:

Struck Volume:	12.00	LCY	
Heaped Volume:	18.00	LCY	
Average Volume:	15.00	LCY	
Adjusted Volume:	18.00	LCY	
	Final Truck Volume Based on Number of	15.75	LCY

Loading Tool Capacity

Bucket Size Class NA

Rated Capacity:	5.000	LCY (heaped)	
Bucket Fill Factor:	1.050	Other - moist loam (100-110%) 1.050	
Adjusted Capacity:	5.250	LCY	

Swell factor:

1.000

Topsoil depth (ft): Topsoil Area - Tract A [sf]: Topsoil Area - Tract B [sf]: Topsoil Area - Tract C [sf]: Topsoil Area - Tract D [sf]: Total Topsoil Vol [cu.yd]: 0.5 1,711,908 2,269,476 527,076 466,092 92,121 Job Condition Corrections:

Site Altitude (ft.): 4,800

	Truck	Loader	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Loading Tool Cycle Time:		Number of LoadingTool	l Passes Required to Fill Truck:	3 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.):					
•	NA Mane	euver: NA	Dump: 0.100		
Wheel and Track Loa	ders - Unadjusted Basic Loader (Cycle Time (load, dump, maneuver):	0.500 minutes		Haul Distance

Cycle Time Factors		Factor (min.)	Source
Material:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Stockpile:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Truck Ownership:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Operation:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Dump Target:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
	Net Cycle Time Adjustment:	0.000	minutes
	Adjusted Loader Cycle Time:	0.500	minutes
	Net Load Time per Truck:	1.500	minutes

_	Haul Distance (ft)	Haul Distance weighted
Tract A	39	7 137
Tract B	43	4 198
Tract C	176	8 187
Tract D	66	4 62

Total Weighted Haul Distance (ft):

Truck Cycle Time:

Truck Exchange Time:	0.50	Minutes
Truck Load Time:	1.500	Minutes
Truck Maneuver and Dump Time:	() 9()	Minutes

Adjusted for site altitude:	0.500	Minutes
Adjusted for site altitude:	1.500	Minutes
Adjusted for site altitude:	0.900	Minutes

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (tnm)	Travel Time (min)
1	584.16	0.00	3.00	3.00	807	0.724
				Haul Time:	0.724	minutes

ed by Topsoil Vol (ft)

584

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	<mark>584.16</mark>	0.00	3.00			0.647
				Return Time:	0.647	minutes
				Total Truck Cycle Time:	4.271	minutes

Loading Tool unit Production	630.00	LCY/Hour
Truck Unit Production	221.25	LCY/Hour
Optimal No. of Trucks:	2.8	Truck(s)

Adjusted hourly truck team production: Adjusted single truck/loader team production: Adjusted multiple truck/loader team production

	Adjusted
JOB TIME AND COST	
Fleet size:	1 Team(s)
Unit cost:	\$1.073 /LCY

Selected Number of Trucks:	3	Truck(s)
522.90	LCY/Hour	
522.90	LCY/Hour	
522.90	LCY/Hour	
Total job time:	176.17	Hours
Total job cost:	\$111,190	
		I

522.90

183.64

LCY/Hour

LCY/Hour

Adjusted for job efficiency:

Adjusted for job efficiency:

REVEGETATION WORK

Task description:

Seed banks of pond

Permit Action: 2025 Financial Warranty Update Site: Permit/Job#: M1999006 Kurtz Sand, Gravel and Reservoir Project **PROJECT IDENTIFICATION**

Task #: 05B State: Colorado Date: 6/23/2025 Weld County:

User: <u>JEL</u> Agency or organization name:

DRMS

FERTILIZING

Materials

Description			Units /Acre	Unit	Cost / Unit	Cost /Acre	
10-34-0, 18-46-0, 5-10-5			200.00	pound	\$0.51	\$102.00	
						Total Fertilizer Materials Cost/Acre	\$102.00

Application

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$43.12
Total Fertilizer Application Cost/Acre	\$43.12

TILLING

Description	Cost /Acre
Chisel plowing {DMG}	\$102.41
Weed control spraying (MEANS 31 31 16.13 3100)	\$338.80
Total Tilling Cost/Acre	\$441.21

SEEDING*

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Western Wheatgrass (Arriba, Barton, Rosana)	2.50	NA	\$11.50
Blue Grama (Hachital, Lovington)	1.50	NA	\$29.00
Sideoats Grama (Vaughn, Butte, Niner, El Reno, Haskell)	2.25	NA	\$29.00
Smooth Brome (Lincoln, Manchar)	2.00	NA	\$4.05
Sand Dropseed	0.25	NA	\$22.00
Perennial Ryegrass (Calibra or Garibalsi tetraploid)	0.75	NA	\$3.85
Slender Wheatgrass (Pryor, Revenue or San Luis)	2.50	NA	\$4.25
Alkaligrass (Fults II, Salt on Sea)	1.25	NA	\$62.00
Switchgrass (Nebraska 28, Blackwell)	1.00	NA	\$13.74
Totals Seed Mix	14.00	0.00	179.39

*Seed mix follows General Seed Mixes for Weld County documentfound at http://www.weld.gov/Government/Departments/Public-Works/Weed-Management/Controlling-Weeds/Reseeding. Seed costs found at greatbasinseeds.com

Application

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

MULCHING and MISCELLANEOUS

Materials

Description	Units /Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$36.14	\$36.14
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$492.78	\$985.56
Total Mulch Materials Cost/Acre				\$1021.70

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$85.37
Weed spray, truck, non-aquatic area, nox. [DMG]	\$83.26
Total Mulch Application Cost/Acre	\$168.63

NURSERY STOCK PLANTING

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

114.20 25%

JOB TIME AND COST

No. of Acres:	
Estimated Failure Rate:	
*Selected Replanting Work Items:	

Cost /Acre:	\$2,19
Cost /Acre*:	\$54
SEEDING	

Initial Job Cost:	\$250,405.20
Reseeding Job Cost:	\$62,601.30
Total Job Cost:	\$313,006
Job Hours:	

Cost /Acre:	\$2,192.69
Cost /Acre*:	\$548.17
DING	

P115 Tract A exposed S.A. above WSEL [ac]: P115 Tract B all [ac]: P115 Tract C backfill area [ac]: P115 Tract D all [ac]:

39.3 52.1 12.10 10.70

DEMOLITION WORK

Task description:

Demo and remove concrete and conveyor

Kurtz Sand, Gravel and Reservoir Project Site:

Permit Action:

2025 Financial Warranty Update

Permit/Job#: <u>M1999006</u>

PROJECT IDENTIFICATION

Task #: <u>06A</u>	State:	Colorado
Date: 6/25/2025	County:	Weld
User: <u>JEL</u>		
Agency or orga	nization name:	DRMS

UNIT COSTS <u>Location adjustment:</u> 89.20 %					%		
Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost	<u>Source</u>
Wingwalls	5 x 25' at Truck Scales	Demo and on-site disposal in existing pit	125.00	LF	\$148.74	\$18,592.08	CDOT Cost Data Book
Concrete pads - quonset hut, fuel tank, 2 x truck scales, scale house	Quonset Hut: 267 SY Fuel Tank: 21 SY Truck Scale 1: 101 SY Truck Scale 2: 72 SY Scale House: 16 SY	Demo and on-site disposal of concrete pads, assumed to equal structure footprints	376.00	SY	\$124.15	\$46,680.40	CDOT Cost Data Book
Quonset Hut	60' x 40'	Remove structure	1.00	EA	\$11466.74	\$11,466.74	CDOT Cost Data Book
Culverts	8'L x 2.5'-5'D RCP	Remove and dispose of RCP culverts from Tract C Pond	300.00	LF	\$57.25	\$17,175.60	CDOT Cost Data Book
Conveyor	3' x 6', 4620' long	Disassemble conveyor, trusses, tower, and bridge and store on-site. Remove concrete foundations and dispose off-site.	1.00	EA	269,000.00	\$269,000.00	Divide Constructors Estim
Fuel tanks	10,000 gallons	Haul tank to dump - 10,000 gal. tank	1.00	EA	\$1,000.00	\$1,000.00	American Gypsum Estima

Job Hours:

Subtotal (unadjusted): \$363,914.83

Total Cost (adjusted for location): \$324,612.03

mate (June 2025)

nate (January 2025)

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Mobilization and Demob.

Kurtz Sand, Gravel and Reservoir Project Site: Permit Action: 2025 Financial Warranty Update

PROJECT IDENTIFICATION

Task #: <u>07A</u>		State:	Colorado
Date:	6/25/2025	County:	Weld
User: <u>JEL</u>			
Agency or	organization name:	DRMS	

EQUIPMENT TRANSPORT RIG COST

Shift basis:	<u>1 per day</u>
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:

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
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	52.21	\$187.01	\$125.64	2	\$625.30	\$251.28	\$250.00
CAT 966H high lift	25.80	\$57.78	\$59.44	2	\$234.44	\$118.88	\$250.00
CAT 815F	22.88	\$107.16	\$59.44	1	\$166.60	\$59.44	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$41.02	\$59.44	1	\$100.46	\$59.44	\$250.00
Grove RT890E, 142', 81.60 MT	54.55	\$222.11	\$125.64	1	\$347.75	\$125.64	\$250.00
Cat D10T	72.90	\$174.79	\$178.00	2	\$705.57	\$355.99	\$250.00
				Subtotals:	\$2,180.12	\$970.67	\$1,500.00

M1999006

Permit/Job#:

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Irin	Return Trip Cost/hr/ fleet
Generic 12-18 cy, 6x4	\$114.77	4	\$459.08	\$459.08
Water Tanker, 3,500 Gal.	\$34.10	1	\$34.10	\$34.10
		Subtotals:	\$493.18	\$493.18

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	GREELEY
Total one-way travel distance:	24.00 miles
Average Travel Speed:	40.00 mph
Total Non-Roadable Mob/Demob Cost *	\$10,561.91
'* two round trips with haul rig:	\$10,501.71
Total Roadable Mob/Demob Cost **	\$591.82
** one round trip, no haul rig:	ψυν1.02

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.60	0.60
Return Time (Hours):	0.60	0.60
Loading Time (Hours):	0.00	NA
Unloading Time (Hours):	0.00	NA
Subtotals:	1.20	1.20

JOB TIME AND COST

Total job time:2.40 HoursTotal job cost:\$11,154

