

Gagnon - DNR, Nikie <nikie.gagnon@state.co.us>

## Bernhardt Resource M2002120 Inspection Report and Cost Estimate

1 message

Gagnon - DNR, Nikie <nikie.gagnon@state.co.us> To: Joel Bolduc <Joel.bolduc@burnco.com>, chris.oestreich@burnco.com Fri, Jul 11, 2025 at 11:22 AM

Hello.

Please see the attached inspection report and reclamation cost estimate for the Bernhardt Resource site, permit no. M-2002-120.

As we discussed on the phone, based on the findings during the inspections, the Division has reason to believe that a violation exists and this matter has been scheduled to appear before the Mined Land Reclamation Board on August 20, 2025. The Notice of Board Hearing will be sent out next week via certified mail. I'll email a copy to you once it is signed so you can begin preparing for the August hearing.

Once you review the inspection report and the cost estimate, feel free to contact me if you have any questions.

Kind regards,

Nikie Gagnon Environmental Protection Specialist

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

Cell: 720.527.1640 Physical: 1313 Sherman Street, Room 215, Denver, CO 80203 Address for FedEx, UPS, or hand delivery: DRMS Room 215, 1001 E 62nd Ave, Denver, CO 80216 nikie.gagnon@state.co.us | https://www.drms.colorado.gov

2 attachments

Bernhardt Resource\_2025 Relcamation Cost Estimate.pdf 350K

INSP-REPORT\_M2002120\_Bernhardt Resource\_final.pdf 9598K



## MINERALS PROGRAM INSPECTION REPORT PHONE: (303) 866-3567

The Division of Reclamation, Mining and Safety has conducted an inspection of the mining operation noted below. This report documents observations concerning compliance with the terms of the permit and applicable rules and regulations of the Mined Land Reclamation Board.

MINE NAME:		MINE/PROSPECTING ID#:	MINERAL:	COUNTY:
Bernhardt Resource		M-2002-120	Sand and gravel	Weld
<b>INSPECTION TYPE:</b>		WEATHER: Clear	INSP. DATE:	INSP. TIME:
Monitoring			June 20, 2025	10:00
OPERATOR:		<b>OPERATOR REPRESENTATIVE:</b>	TYPE OF OPERA	ΓION:
BURNCO Colorado, LLC		Joel Bolduc	112c - Construction	Regular Operation
<b>REASON FOR INSPECTION:</b>		BOND CALCULATION TYPE:	<b>BOND AMOUNT:</b>	
Normal I&E Program		Complete Bond	\$2,557,725.00	
DATE OF COMPLAINT:	DATE OF COMPLAINT:		JOINT INSP. AGENCY:	
NA		None	None	
INSPECTOR(S):	INSPE	CTOR'S SIGNATURE:	SIGNATURE DAT	Е:
Nikie Gagnon			July 11, 2025	
	1			
	14	Kie Gagnon		
		0		

### The following inspection topics were identified as having Problems or Possible Violations. OPERATORS SHOULD READ THE FOLLOWING PAGES CAREFULLY IN ORDER TO ASSURE COMPLIANCE WITH THE TERMS OF THE PERMIT AND APPLICABLE RULES AND REGULATIONS. If a Possible Violation is indicated, you will be notified under separate cover as to when the Mined Land Reclamation Board will consider possible enforcement action.

### **INSPECTION TOPIC:** Off-site Damage

**POSSIBLE VIOLATION #1:** On June 20, 2025, the Division observed an overburden stockpile adjacent to Cell 5 partially placed outside of the approved permit and affected land boundaries. This is a possible violation at this time pursuant to C.R.S. 34-32.5-116(4)(i) for failure to protect areas outside of the affected land from slides or damages occurring during the mining operation.

**CORRECTIVE ACTIONS:** This possible violation will require a hearing before the Mined Land Reclamation Board. The schedule and other details for the MLRB hearing will be provided under a separate document to be sent via certified mail to the operator.

**CORRECTIVE ACTION DUE DATE:** Tentative MLRB hearing date - 8/20/25

### **INSPECTION TOPIC:** Hydrologic Balance

**POSSIBLE VIOLATION #2:** During the inspection, the Division observed a large overburden stockpile on the north side of the permit area within the floodplain of the Big Thompson River. The stockpile area is not identified in the approved mining plan. The Division also observed inadequate stormwater control practices in the area of the stockpile. Additionally, the Operator does not have an active floodplain permit from the Town of Milliken. This is a possible violation pursuant to C.R.S. 34-32.5-124 for failure to comply with the conditions of the permit or regulation and C.R.S. 34-32.5-116(4)(h) and (j) for disturbances to the prevailing hydrologic balance of the affected land and of the surrounding area and to the quality of surface water and failing to effectively control

erosion around the overburden pile.

**CORRECTIVE ACTIONS:** This possible violation will require a hearing before the Mined Land Reclamation Board. The schedule and other details for the MLRB hearing will be provided under a separate document to be sent via certified mail to the operator.

**CORRECTIVE ACTION DUE DATE:** Tentative MLRB hearing date - 8/20/25

### **INSPECTION TOPIC:** Topsoil

**POSSIBLE VIOLATION #3:** During the inspection, the Division did not observe any topsoil storage areas and determined there is inadequate topsoil on site to complete the approved reclamation at the site. This is a possible violation pursuant to C.R.S. 34-32.5-124 for failure to comply with the condition of a permit and C.R.S. 34-32.5-116(4) and Rule 3.1.9, for failure to implement the approved reclamation plan.

**CORRECTIVE ACTIONS:** This possible violation will require a hearing before the Mined Land Reclamation Board. The schedule and other details for the MLRB hearing will be provided under a separate document to be sent via certified mail to the operator.

**CORRECTIVE ACTION DUE DATE:** Tentative MLRB hearing date - 8/20/25

### INSPECTION TOPIC: Gen. Compliance With Mining Plan

**PROBLEM #1:** During the inspection the Division observed changes to the configurations of Mining Cells 2 and 5. The current mining plan needs to be updated and clarified pursuant to C.R.S. 34-32.5-112 (1)(c)(VI). The operator must provide sufficient information to describe or identify how the operator intends to conduct the operation. **CORRECTIVE ACTIONS:** The operator shall submit a Revision to update and clarify the current approved mine plan to reflect existing and proposed activities by the corrective action date. **CORRECTIVE ACTION DUE DATE:** 8/11/25

### **INSPECTION TOPIC:** Gen. Compliance With Reclamation Plan

**PROBLEM #2:** Mining is complete within reservoir cells 3, 4 and 5. The current approved reclamation plan states reclamation should be complete within one year after mining in these cells. During the inspection, the Division observed incomplete reclamation of reservoir cells 3, 4 and 5. Final earthwork, spillway installation, topsoiling and initial seeding is not complete. The reclamation plan needs to be updated and clarified pursuant to C.R.S. 34-32.5-116 (1). Additionally, the operator has not completed reclamation of Cell 3 within five (5) years from the date that mining activities ceased as required by C.R.S. 34-32.5-116(4) and Rule 3.1.3.

**CORRECTIVE ACTIONS:** By the corrective action due date, the operator shall submit a Revision to update and clarify the schedule for completing reclamation activities at the site. The expectation is that all required earthwork, spillway installation, and initial seeding of reservoirs 3, 4, and 5 will be completed within one year in accordance with the approved reclamation plan.

**CORRECTIVE ACTION DUE DATE:** 8/11/25

### **INSPECTION TOPIC:** Financial Warranty

**PROBLEM #3:** The financial warranty is not adequate to reclaim the site in accordance with the approved reclamation plan. This is a failure to maintain the proper financial warranty amount to complete the reclamation of the affected lands pursuant to C.R.S. 34-32.5-117(4)(b) of the Act.

**CORRECTIVE ACTIONS:** Enclosed is the reclamation cost estimate, by the corrective action due date, please submit any questions you have regarding the estimate to the Division. After the corrective action due date, the Division may send a separate surety increase notice to the operator regarding the required increase of the financial warranty. The operator will have 60 days from the date on the surety increase notice to post the additional financial warranty.

#### **CORRECTIVE ACTION DUE DATE:** 7/25/25

## **OBSERVATIONS**

The Bernhardt Resource mine was inspected by Nikie Gagnon, representing the Division of Reclamation, Mining and Safety (Division), as part of the Division's normal monitoring inspection program. Due to concerns over compliance with the approved permit conditions, the Division conducted two inspections of the site. The first inspection was conducted on March 20, 2025, after which, additional file and site review was necessary. Based on a review of Google imagery and the permit file, the Division was concerned that the operator may be impacting land outside the permit area and conducted a follow-up inspection on June 20, 2025. Joel Bolduc, representing BURNCO (Operator), accompanied the Division for both inspections. Bo Woodcock, representing the landowner, accompanied the Division and Operator during the second inspection.

### General Mine Plan Compliance:

The Bernhardt operation permit area is 291.64 acres. The site was mined in 5 phases, leaving four slurry walled reservoirs which will be operated by the Central Colorado Water Conservancy post mining. The Big Thompson River bisects the site, flowing from west to east. Portions of the mining areas are within the floodplain of the river. Mining Cells 1-4 are on the south side of the river and Cell 5 is on the north side. The post mining land use is developed water resources surrounded by upland pasture. A mine sign was posted at the entrance to the site, as required by Rule 3.1.12(1).

Mining of cells 1, 3, 4, and 5 is complete. Cell 2 is currently being mined. Slurry walls are installed around all four reservoirs (Cells 2-5). White plastic markers were observed marking the edge of the slurry walls. According to the 2025 Substitute Water Supply Plan, reservoirs 2, 3 and 4 have final approval from the Division of Water Resources (DWR) to operate as reservoirs. The liners around Cells 3 & 4 were damaged in a rain event in May 2023. Repairs were completed and the new liners were approved on September 4, 2024. The liner around Cell 5 was provisionally approved by DWR in 2019. Central Colorado Water Conservancy is currently storing water in Cells 3 and 4.

Cell 1 was mined first and is utilized as a freshwater pond and silt storage area for the mining operation. Once mining is complete, Cell 1 will be backfilled and graded to the pre-existing grade. Silt storage piles were observed in this area.

Active mining was observed in Cell 2. The approved mining plan depicts Cell 2 split into two reservoirs due to overhead powerlines and an oil and gas well. The well has been shut in and the power lines have been abandoned and removed. The operator is mining Cell 2 as one large reservoir. As stated above, BURNCO will need to submit a revision to update the mining and reclamation plans to show the final configuration of Cell 2.

Mining is complete in Cells 3 and 4. During this inspection, the Division observed water stored in Cells 3 and 4. The reservoir slopes have been graded to 3H:1V or shallower above the water line, however vegetation is not established on the slopes or around the perimeters to stabilize the shoreline and control erosion. Bare ground and annual weeds were observed around the reservoirs and wave cutting of the reservoir slopes was noted in a few spots. A spillway is installed in the northwest corner of Cell 3, consistent with the approved plan. The reclamation map shows a spillway on the north side of Cell 4. The Cell 4 spillway will need to be installed in the approved location. The remaining reclamation tasks (topsoiling and seeding) around both reservoirs must be

completed by the Operator will all reasonable diligence. Additionally, the Division observed a backfilled slope in the southeast corner of the permit area, adjacent to Cell 4. The operator will need to finish grading the slope to 3H:1V and revegetate it to prevent erosion.

On the north side of the river, mining of Cell 5 is complete, and the slopes have been graded to 3H:1V. Topsoiling and seeding have not been completed in this area and two spillways depicted on the reclamation map need to be installed in the southeast and northwest corners. The original mine plan depicted an oil and gas well on the north side of Cell 5. This well was abandoned and removed and the pad has been mined out. As stated above, BURNCO will need to submit a revision to update the mining and reclamation plans to show the final configuration of Cell 5.

### Offsite Impact

During the March inspection, the Division observed a large stockpile area on the west end of Cell 5. Processing equipment was in use and trucks were observed entering and leaving this area. Mr. Bolduc stated the stockpile is overburden removed from Cell 5 and the landowner is mixing manure from his cattle operation with the overburden and generating growth medium and selling it. The material will also be used for future reclamation of the site. During a review of the permit file and Google Imagery, the Division determined the approved mine plan does not depict a stockpile area in the floodplain adjacent to Cell 5. Also, it was found that the overburden stockpile may be outside the permit and affected land boundary. Therefore, the Division conducted a 2<sup>nd</sup> inspection on June 20, 2025, to delineate the overburden stockpile and determined that the northwest corner of the pile, approximately 0.62 acre, is outside the permit boundary. **As stated above, this a possible violation at this time pursuant to C.R.S. 34-32.5-116(4)(i) for failure to protect areas outside of the affected land from slides or damages occurring during the mining operation.** 

### Hydrologic Balance

As discussed above, the stockpile north of Cell 5 is within the floodplain of the Big Thompson River. During the inspection, the Division observed sedimentation and erosion channels leading to the river on the south side of the overburden stockpile (Photos 24-27). The approved mining plan states that silt fence and hay bale dams will be installed to prevent erosion. When asked about floodplain protection requirements, Mr. Bolduc informed the Division that BURNCO does not have a current floodplain permit from the Town of Milliken for this site. As stated above, this is a possible violation at this time pursuant to C.R.S. 34-32.5-124 for failure to comply with the conditions of the permit or regulation, and C.R.S. 34-32.5-116(4)(h) and (j) for disturbances to the prevailing hydrologic balance of the affected land and of the surrounding area and to the quality of surface water and failing to effectively control erosion around the overburden pile. Following the inspection, on June 30, 2025, the operator submitted photos showing grading of the stockpile area and berm construction to prevent stormwater from flowing into the river (Photos 28-29).

### <u>Topsoil</u>

According to the approved reclamation plan, topsoil will be removed and segregated from other spoil and stored in places and configurations to minimize erosion and disturbance. In accordance with the approved reclamation plan, topsoil is required to be placed uniformly and spread on all areas disturbed by mining and around the perimeter of the reservoirs above the waterline. The approved minimum thickness of topsoil to be replaced is 6 inches above the finished grade. Topsoil not needed for reclamation was approved to be sold. During the inspection, the Division did not observe any topsoil salvaged and stored on site or placed above the water line or around the perimeters of mining Cells 3, 4, and 5. According to Mr. Woodcock, all the topsoil was sold by the previous operator of the mine. Mr. Bolduc stated that BURNCO has an agreement with the

landowner to purchase the overburden/manure mixture to use as a growth medium for reclamation of the site. As stated above, this is a possible violation pursuant to C.R.S. 34-32.5-124 for failure to comply with the condition of a permit and C.R.S. 34-32.5-116(4) for failure to implement the approved reclamation plan. Additionally, the Division revised the reclamation bond estimate to include purchasing and hauling of topsoil for reclamation (see Problem #4).

### **Reclamation Plan Compliance:**

According to the approved reclamation plan, all upland areas will be backfilled and graded to existing grade of approximately 0.2 to 2%, with a 0.5% slope towards the northwest/Big Thompson River within the floodplain. Upland areas will be topsoiled and seeded. The mined cells will be graded to 3H:1V slopes on the reclaimed water reservoirs. The conveyor corridor will be reclaimed as upland. The perimeters of the reservoirs will be topsoiled and seeded above the waterline. Reclamation will be completed with reasonable diligence, within one to two years from completion of mining, but not more than five years from the date the Operator informs the Board or Office that such phase has commenced.

Based on a review of the permit file and observations during this inspection, reclamation at the site stalled after the approval of Amendment 1 in 2019. At that time, the Operator stated that, "reclamation is ongoing across the site. Cell 3 was mined out and actively being reclaimed and Cell 4 would be mined out within a year and reclaimed, and Cell 5 would be mined after Cell 4. Reclamation takes approximately one year." The Division reminds BURNCO of this commitment to carry out reclamation tasks with reasonable diligence once mining is complete. As stated above, by the corrective action due date, the operator shall submit a Revision to update and clarify the schedule for completing reclamation activities at the site. During the inspections, the Division observed that mining is complete in Cells 3, 4, and 5, therefore, the expectation is that all required earthwork, spillway installation, and initial seeding will be completed within one year in accordance with the approved reclamation plan.

### **Financial Warranty**

The Division holds a \$2,557,725.00 corporate surety for the site. The financial warranty was last reviewed in 2019 for Amendment 1. After the inspections, the Division estimated the reclamation liability at the site to be \$2,869,171 which is \$311,446.00 more than the currently held financial warranty. **As noted in Problem #3 above, the Division's reclamation cost estimate is enclosed with this report for the Operator's review. The Division requests that any questions or concerns regarding the estimated liability level be forwarded to the Division by July 25, 2025.** The Division may issue a surety increase notice after July 25, 2025. In accordance with Rule 4.2.1(2), BURNCO will have sixty (60) days from the date of the notice of surety increase to provide the additional financial warranty.

This concludes the Division's Inspection Report; a subset of photographs taken during the time of the inspection are included below. If you need additional information or have any questions, please contact me at Division of Reclamation, Mining and Safety, 1313 Sherman Street, Room 215, Denver, CO 80203, by telephone at 720-527-1640 or by email at <u>nikie.gagnon@state.co.us</u>.

## Photographs from the March 20, 2025 Inspection



Photo 1: Looking northeast across Cell 5.



Photo 2: Looking across the northwest corner of Cell 5. Processing equipment observed in a stockpile area adjacent to Cell 5 (red arrow).

#### PERMIT #: M-2002-120 INSPECTOR'S INITIALS: NCG INSPECTION DATE: June 20, 2025



Photo 3: Looking west across Cell 4.



Photo 4: Graded unvegetated area on the east side of Cell 4.



Photo 5: Looking at unvegetated reservoir perimeter slopes on Cell 4.



Photo 6: Rip rap placed on the east side of Cell 4. This is not on the approved reclamation plan.



Photo 7: Looking at steep unvegetated slope in the southwest corner of Cell 4.



Photo 8: Looking across Cell 3 from the center of the south side of the permit area. No vegetation observed around the perimeter of the reservoir.



Photo 9: Northwest corner of Cell 3. Spillway is installed in the corner adjacent to the river (red arrow).



Photo 10: Looking south across Cell 2 in the active mining area.



Photo 11: Slurry wall marker adjacent to Cell 2.



Photo 12: Looking west across the Cell 1 silt storage area.



Photo 13: Looking southwest across Cell 2. Abandoned gas well to be cut down in the center (red arrow).



Photo 14: Stockpiles in the southeast corner of Cell 2 area, near the entrance to the mine site.



Photo 15: Processing equipment storage area between Cells 1 and 3.



Photo 16: Concrete pads associated with the former aggregate plant between Cells 1 and 3.



Photo 17: Mine sign observed at the entrance to the stockpile area adjacent to Cell 2.



Photographs from follow-up June 20, 2025 Inspection

Photo 18: Looking at the overburden stockpile adjacent to Cell 5.



Photo 19: Road around the south side of the permit area. Arrow points to stormwater path to the river.



Photo 20: Sedimentation along the stormwater path between the stockpile and the river.



Photo 21: Sediment piles and cement blocks on the south side of the overburden pile, adjacent the Big Thompson River.



Photo 22: Tire installed adjacent to the river to catch sediment.



Photo 23: West end of the of the overburden stockpile in the floodplain.



Photo 24: Looking at the northwest corner of the overburden stockpile where it extends outside the permit boundary.



Photo 25: Standing on the top of the overburden stockpile on the northern boundary of the permit area, west of Cell 5. Red arrows point to material placed outside the permit boundary.



Photo 26: Looking east across the processing area and Cell 5 from the top of the stockpile.



Photographs received from the Operator on 6/30/2025

Photo 27: Landowner installed a berm and graded the southwest side of the stockpile to prevent sediment from flowing to the river.



Photo 28: South side of the stockpile, adjacent to the processing area. The Landowner installed a berm and graded the base of the pile towards the pit to prevent sediment from flowing to the river.



Figure 1: View of the Bernhardt permit area. The yellow line is the permit boundary. The orange outline on the northern boundary is the overburden stockpile area within the floodplain. Google Imagery dated March 3, 2025.

#### PERMIT #: M-2002-120 INSPECTOR'S INITIALS: NCG INSPECTION DATE: June 20, 2025



Figure 2: Close up view of the stockpile area adjacent to Cell 5 (orange outline). The portion of the stockpile that is outside of the permit boundary is shaded. The yellow line is the northern permit boundary.

Google Imagery dated March 3, 2025.

### **GENERAL INSPECTION TOPICS**

The following list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each

(AR) RECORDS <u>N</u>	(FN) FINANCIAL WARRANTY PB	(RD) ROADS <u>N</u>
(HB) HYDROLOGIC BALANCE <u>PV</u>	(BG) BACKFILL & GRADING <u>Y</u>	(EX) EXPLOSIVES <u>N</u>
(PW) PROCESSING WASTE/TAILING <u>N</u>	(SF) PROCESSING FACILITIES <u>N</u>	(TS) TOPSOIL <u>PV</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>PB</u>	(FW) FISH & WILDLIFE <u>N</u>	(RV) REVEGETATION <u>Y</u>
(SM) SIGNS AND MARKERS <u>N</u>	(SP) STORM WATER MGT PLAN <u>N</u>	(RS) RECL PLAN/COMP <u>PB</u>
(ES) OVERBURDEN/DEV. WASTE <u>N</u>	(SC) EROSION/SEDIMENTATION Y	(ST) STIPULATIONS <u>N</u>
(AT) ACID OR TOXIC MATERIALS <u>N</u>	(OD) OFF-SITE DAMAGE <u>PV</u>	

Y = Inspected / N = Not inspected / NA = Not applicable to this operation / PB = Problem cited / PV = Possible violation cited

Inspection Contact Address Joel Bolduc BURNCO Colorado, LLC 10100 Dallas St Henderson, CO 80640

Enclosure: Reclamation Cost Estimate 2025

CC: Jared Ebert, DRMS

## COST SUMMARY WORK

Г	Task descrip	tion:	Reclama	tion Co	st Estimate				
Site:	Bernhard	lt Resource		Per	rmit Action:	2025 Inspection	Permit/Joł	o#: M2002120	
<u>P</u> ]	ROJECT Task #: Date: User:	IDENTIFIC 000 3/19/2025 NCG		State: County:	Colorado Weld		Abbreviation: Filename:	None M120-000	

Agency or organization name: DRMS

## TASK LIST (DIRECT COSTS)

Task		Form	Fleet	Task	~
	Description	Used	Size	Hours	Cost
001	Backfill Settling Pond 5 acres/10 feet deep	DOZER	2	812.46	\$524,953
003	Serge Piles into settling pond	DOZER	2	11.36	\$5,136
004	Remove 15cy concrete wash plant pad (op est)	NA	1	8.00	\$975
005	Demo and remove shop (op est)	NA	1	8.00	\$2,000
006	Remove 8cy concrete office footings (op est)	NA	1	8.00	\$520
007	Remove 10cy concrete scale base (op est)	NA	1	8.00	\$650
008	Reveg Processing Area 11 ac.	REVEGE	1	11.00	\$26,986
009	Remove and reclaim conveyor corridor (op est)	NA	1	8.00	\$15,000
010	Reveg Settling Pond, AM01 area, Shorelines 37 ac	REVEGE	1	37.00	\$86,049
011	Mob/Demob	MOBILIZE	1	9.28	\$24,114
012	Slurry Wall Reservoir 2 (40' x 6257' @ \$5 sq/ft 20%)	NA	1	8.00	\$250,280
013	Slurry Wall Reservoir 3 (40' x 4032' @ \$5 sq/ft 20%)	NA	1	8.00	\$161,280
014	Slurry Wall Reservoir 4 (40' x 3550' @ \$5 sq/ft 20%)	NA	1	8.00	\$142,000
015	Slurry Wall Reservoir 5 (40' x 5086 @\$5 sq/ft 20%)	NA	1	8.00	\$191,234
016	Spillway Res 4 - op est haul, place, type II bedding	NA	1	16.00	\$134,211
017	Spillways Res 5 (2) op est haul, place, type II bedding	NA	1	16.00	\$264,272
018	Spread 6" Topsoil processing area 11 ac.	SCRAPER1	1	7.10	\$16,132
018a	Spread 6" Topsoil perimeter, setting pond, shorelines 37 ac.	SCRAPER1	1	23.87	\$54,261
019	Purchase and Haul Topsoil	TRUCK1	1	65.63	\$297,144
<u>SUBTOTALS:</u> 1081.7 \$2,197,197					\$2,197,197

## **INDIRECT COSTS**

OVERHEAD AND PROFIT:

Liability insurance:	2.02
Performance bond:	1.05
Job superintendent:	540.85
Profit:	10.00

Total =	\$44,383
Total =	\$23,071
Total =	\$40,634
Total =	\$219,720
TOTAL O & P =	\$327,808
CONTRACT AMOUNT (direct + O & P) =	\$2,525,005

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	\$500	Total =	\$500
Engineering work and/or contract/bid preparation:	6.00	Total =	\$151,500
Reclamation management and/or administration:	5.00		\$126,250
CONTINGENCY:	3.00	Total =	\$65,916
c .		Total =	

TOTAL INDIRECT COST = \$671,974

TOTAL BOND AMOUNT (direct + indirect) = \_\_\_\_\_\$2,869,171

## BULLDOZER WORK

Bernhardt Resource					
	Permit Ac	ction:	2025 Inspection	Permit/Jo	b#: <u>M2002120</u>
<b>PROJECT IDENTIF</b>	ICATION				
Task #: 001	State: Colo	orado		Abbreviation:	None
Date: <u>3/19/2025</u>	County: Weld	d		Filename:	M120-001
User: NCG					
Agency or orga	nization name: DRMS				
HOURLY EQUIPME	ENT COST				
Basic Machine: Ca	ut D8T - 8SU				
Horsepower: 31					
21	mi-Universal				
Attachment: NA					
	per day				
Data Source: (C	RG)				
Cost Breakdown:					
			<u>Utilization %</u>		
Ownership Cost/Hour:	\$179		NA		
Operating Cost/Hour:	\$110	).45	100		
Ripper own. Cost/Hour:	\$0	0.00	NA		
Ripper op. Cost/Hour:	\$0	0.00	0		
Operator Cost/Hour:		9.46	NA		
openance coorticati			1471		
Total unit Cost/Hour:	\$329.51				
Total Fleet Cost/Hour:	\$659.02		<u> </u>		
MATERIAL QUANT	<u>TTIES</u>				
Initial Volume: 81,	000				
Initial Volume: 81, Swell factor: 1.12	25				
Initial Volume: 81, Swell factor: 1.12 Loose volume: 91,	000 25 <b>125</b> LCY				
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Initial Volume: 81, Swell factor: 1.12 Loose volume: 91, Source of estimated vol Source of estimated swo factor: HOURLY PRODUCT Average push distance:	000 25 <b>125</b> LCY ume: Division of Rec ell Cat Handbook <u>CION</u> 500 feet	lamation	ı, Mining & Safety 		
Initial Volume: 81, Swell factor: 1.12 Loose volume: 91, Source of estimated vol Source of estimated swo factor: HOURLY PRODUCT Average push distance: Unadjusted hourly production:	000 25 <b>125</b> LCY ume: Division of Rec ell Cat Handbook <u>CION</u> 500 feet				
Initial Volume: 81, Swell factor: 1.12 Loose volume: 91, Source of estimated vol Source of estimated swo factor: HOURLY PRODUCT Average push distance: Unadjusted hourly production:	000           25           125 LCY           ume:         Division of Rec           cll         Cat Handbook           FION         500 feet           129.7 LCY/hr				
Initial Volume: 81, Swell factor: 1.12 Loose volume: 91, Source of estimated vol Source of estimated swo factor: HOURLY PRODUCT Average push distance: Unadjusted hourly production:	000           25           125 LCY           ume:         Division of Rec           cll         Cat Handbook           FION         500 feet           129.7 LCY/hr				
Initial Volume: 81, Swell factor: 1.12 Loose volume: 91, Source of estimated vol Source of estimated swo factor: HOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency d	000 25 <b>125</b> LCY ume: Division of Rec ell Cat Handbook <u>500 feet</u> 129.7 LCY/hr escription: Partly consoli				
Initial Volume: 81, Swell factor: 1.12 Loose volume: 91, Source of estimated vol Source of estimated swo factor: HOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency d Average push	000 25 <b>125</b> LCY ume: Division of Rec ell Cat Handbook <u>500 feet</u> 129.7 LCY/hr escription: Partly consoli				
Initial Volume: 81, Swell factor: 1.17 Loose volume: 91, Source of estimated vol Source of estimated swo factor: HOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency d Average push gradient: Average site altitude:	000 25 125 LCY ume: Division of Rec ell Cat Handbook <u>500 feet</u> 129.7 LCY/hr escription: Partly consoli 0 %				
Initial Volume: 81, Swell factor: 1.12 Loose volume: 91, Source of estimated vol Source of estimated swo factor: HOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency d Average push gradient:	000 25 125 LCY ume: Division of Rec ell Cat Handbook <u>500 feet</u> 129.7 LCY/hr escription: Partly consoli 0 %				
Initial Volume: 81, Swell factor: 1.12 Loose volume: 91, Source of estimated vol Source of estimated vol Source of estimated swo factor: HOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency d Average push gradient: Average site altitude: Material weight:	000           25           125 LCY           ume:         Division of Rec           cline         Cat Handbook           CION				
Initial Volume: 81, Swell factor: 1.17 Loose volume: 91, Source of estimated vol Source of estimated swo factor: HOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency d Average push gradient: Average site altitude:	000         25         125 LCY         ume:       Division of Rec         cat Handbook         Cat Handbook         CION         500 feet         129.7 LCY/hr         escription:       Partly consoli         0 %         4,730 feet				

Task # 001

Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4324

Adjusted unit production:	56.08 LCY/hr
Adjusted fleet production:	112.16 LCY/hr

### JOB TIME AND COST

Fleet size:	2 Dozer(s)
Unit cost:	\$5.876/LCY

Total job time:	812.46 Hours
Total job cost:	\$535,424

## BULLDOZER WORK

		ettling po	ona		
te: Bernhardt Resource	Permit	Action:	2025 Inspection	Permit/Jol	b#:M2002120
PROJECT IDENTIFI	ICATION				
Task #: 003 Date: 3/19/2025 User: NCG	County: W	olorado feld		Abbreviation: Filename:	None M120-003
Agency or organ HOURLY EQUIPME					
Horsepower: 31 Blade Type: Se Attachment: NA Shift Basis: 1 p	mi-Universal				
Cost Breakdown:		I			
Ownership Cost/Hour:	\$	79.60	<u>Utilization %</u> NA		
Operating Cost/Hour:		10.45	100		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		539.46	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,00 Swell factor: 1.00 Loose volume: 1,00	00				
Source of estimated vol			n, Mining & Safety		
Source of estimated swe factor:	ell Cat Handboo				
Source of estimated swe					
Source of estimated swe factor:					
Source of estimated swe factor: HOURLY PRODUCT Average push distance: Unadjusted hourly	500 feet 129.7 LCY/hr		 tockpile 1.1		
Source of estimated swe factor: <u>HOURLY PRODUCT</u> Average push distance: Unadjusted hourly production:	500 feet 129.7 LCY/hr		  tockpile 1.1		
Source of estimated swe factor: <b>HOURLY PRODUCT</b> Average push distance: Unadjusted hourly production: Materials consistency do Average push			 tockpile 1.1		
Source of estimated swe factor: <b>HOURLY PRODUCT</b> Average push distance: Unadjusted hourly production: Materials consistency de Average push gradient:	500 feet         129.7 LCY/hr         escription:       Partly cons         0 %		  tockpile 1.1		
Source of estimated swe factor: <b>HOURLY PRODUCT</b> Average push distance: Unadjusted hourly production: Materials consistency de Average push gradient: Average site altitude:	500 feet         129.7 LCY/hr         escription:       Partly cons         0 %         4,730 feet		 tockpile 1.1		

Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.708	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3394

Adjusted unit production:	44.02 LCY/hr
Adjusted fleet production:	88.04 LCY/hr

#### JOB TIME AND COST

Fleet size:	2 Dozer(s)
Unit cost:	\$7.485/LCY

Total job time:	11.36 Hours
Total job cost:	\$7,485

## **REVEGETATION WORK**

Task descrij	otion:	<b>Reveg Processing Area</b>	n 11 ac.			
ite: Bernhar	lt Resource	Permit A	ction: <u>2</u>	025 Inspection	Permit/Job	#: <u>M2002120</u>
	IDENTIFIC				Abbreviation:	Nana
Task #: Date: User:	008 3/19/2025 NCG	County: Wele			Filename:	None M2002120

## **FERTILIZING**

#### Materials

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

## Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

## **TILLING**

Description	Cost /Acre
Subsoil scarification, (MEANS 32 91 13.23 3100)	\$250.91
Weed control spraying (MEANS 31 31 16.13 3100)	\$338.80
Total Tilling Cost/Acre	\$589.71

## **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indiangrass - Cheyenne	0.50	1.52	\$6.30
Indian Ricegrass - Nespar	3.00	9.71	\$52.90
Switchgrass - Blackwell	1.50	13.40	\$20.30
Sand Lovegrass - Bend	2.50	86.09	\$44.58
Little Bluestem - Cimarron	0.75	4.48	\$10.41
Sand Dropseed	0.50	59.69	\$6.66
Sand Bluestem - Garden Co.	1.00	2.59	\$24.81
Needlegrass, Green - Lodorm	1.50	6.23	\$13.28
Prairie Sandreed - Goshen	0.75	4.70	\$13.07

	Totals Seed Mix	12.00	188.41	\$192.32
۸.	nnlication			

#### Application

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$242.30
	Total Seed Application Cost/Acre	\$242.30

## **MULCHING and MISCELLANEOUS**

### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered	2.00	TON	\$504.56	\$1,009.12
Total Mulch Materials Cost/Acre				\$1,009.12

**Application** 

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$239.35
	<b>Total Mulch Application Cost/Acre</b>	\$239.35

## **NURSERY STOCK PLANTING**

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

### JOB TIME AND COST

	No. of Acres:			Cost /Acre:	÷	
Estimate	ed Failure Rate:	25%		Cost /Acre*:	\$1,683.09	
*Selected Replanti	ng Work Items:	SEEDING,MUL	CHING			
Initial Job Cost:	\$25,000.80					
Reseeding Job Cost:	\$4,628.50					
Total Job Cost:	\$29,629					
Job Hours:	11.00					

## **REVEGETATION WORK**

Task descri	ption:	Reveg Settling Po	nd, AM01 a	area, Shorelines 37 ac		
Site: Bernhar	dt Resource	Perm	nit Action:	2025 Inspection	Permit/Jol	o#: M2002120
<b>PROJECT</b>	IDENTIFIC	CATION				
Task #: Date: User:	010 3/19/2025 NCG	State: County:	Colorado Weld		Abbreviation: Filename:	None M120-010
User:					i nenume.	10120 010

## **FERTILIZING**

#### Materials

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

## Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

## **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$114.13
Weed control spraying (MEANS 31 31 16.13 3100)	\$338.80
Total Tilling Cost/Acre	\$452.93

## **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indiangrass - Cheyenne	0.50	1.52	\$6.30
Indian Ricegrass - Nespar	3.00	9.71	\$52.90
Switchgrass - Blackwell	1.50	13.40	\$20.30
Sand Lovegrass - Bend	2.50	86.09	\$44.58
Little Bluestem - Cimarron	0.75	4.48	\$10.41
Sand Dropseed	0.50	59.69	\$6.66
Sand Bluestem - Garden Co.	1.00	2.59	\$24.81
Needlegrass, Green - Lodorm	1.50	6.23	\$13.28
Prairie Sandreed - Goshen	0.75	4.70	\$13.07

	Totals Seed Mix	12.00	188.41	\$192.32
Application				

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$242.30
	Total Seed Application Cost/Acre	\$242.30

## **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered	2.00	TON	\$504.56	\$1,009.12
Total Mulch Materials Cost/Acre				\$1,009.12

**Application** 

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$239.35
	<b>Total Mulch Application Cost/Acre</b>	\$239.35

## **NURSERY STOCK PLANTING**

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

### JOB TIME AND COST

	No. of Acres:	37		Cost /Acre:	\$2,136.02
Estimate	ed Failure Rate:	25%		Cost /Acre*:	\$1,683.09
*Selected Replanti	ng Work Items:	SEEDING,MU	LCHING		
Initial Job Cost:	\$79.032.74				
Reseeding Job Cost:	· · · · ·				
Total Job Cost:					
Job Hours:	37.00				

## EQUIPMENT MOBILIZATION/DEMOBILIZATION

EQUIPMI	IDEN         011         3/19/2         nCG         gency or         ENT TR         Truck T         Truck T         eRig Cap         nership C         perating C	TIFICATI 2025 organizatior RANSPOR	<u>ON</u> State: <u>Cc</u> County: <u>W</u> n name: <u>DRMS</u> <u>T RIG COST</u> ription: GENE	RIC ON-HIGH ENERIC FOLD	WAY TRU 400 HP DING GOO TRAILER 51+ \$4	Abbre Fi Shift ba Cost Data Sour JCK TRACTC (2ND HALF, SENECK, DF (25T, 50T, AN (25T, 50T, AN - Tons 18.96	rce: <u>CRG Da</u> DR, 6X4, DIESEL 2006) ROP DECK EQU	0-011 
Task #: Date: User: A EQUIPMI EQUIPMI Cost Breakce Ow Op O Tot NON RO A	011 3/19/2 gency or ENT TR Truck T Truck T down: eRig Cap nership C perating C	2025 organizatior <b>RANSPOR</b> Fractor Desc Frailer Desc Dacities	State: <u>Co</u> County: <u>W</u> n name: <u>DRMS</u> <u>T RIG COST</u> ription: <u>GENE</u> ription: <u>G</u> <u>0-25 Tons</u> \$21.47	eld RIC ON-HIGH ENERIC FOLD 26-50 Tons \$38.32	WAY TRU 400 HP DING GOO TRAILER 51+	Shift ba Cost Data Sour JCK TRACTC (2ND HALF, SENECK, DF (25T, 50T, AN - Tons 18.96	ilename: <u>M120</u> sis: <u>1 per da</u> rce: <u>CRG Da</u> DR, 6X4, DIESEL 2006) ROP DECK EQU	0-011
Date: User: A EQUIPMI EQUIPMI EQUIPMI OW Op Op Op Tot NON ROA	<u>3/19/2</u> NCG gency or ENT TR Truck T Truck T down: <u>Rig Cap</u> nership C perating C	organizatior <b>RANSPOR</b> Fractor Desc Trailer Desc <b>Dacities</b> Cost/Hour:	County: W County: W County: DRMS T RIG COST T RIG COST ription: GENE ription: G COUNT	eld RIC ON-HIGH ENERIC FOLD 26-50 Tons \$38.32	WAY TRU 400 HP DING GOO TRAILER 51+	Shift ba Cost Data Sour JCK TRACTC (2ND HALF, SENECK, DF (25T, 50T, AN - Tons 18.96	ilename: <u>M120</u> sis: <u>1 per da</u> rce: <u>CRG Da</u> DR, 6X4, DIESEL 2006) ROP DECK EQU	0-011
Date: User: A EQUIPMI EQUIPMI EQUIPMI EQUIPMI OW OW OP OW OP Tot	<u>3/19/2</u> NCG gency or ENT TR Truck T Truck T down: <u>Rig Cap</u> nership C perating C	organizatior <b>RANSPOR</b> Fractor Desc Trailer Desc <b>Dacities</b> Cost/Hour:	County: W County: W County: DRMS T RIG COST T RIG COST ription: GENE ription: G COUNT	eld RIC ON-HIGH ENERIC FOLD 26-50 Tons \$38.32	WAY TRU 400 HP DING GOO TRAILER 51+	Shift ba Cost Data Sour JCK TRACTC (2ND HALF, SENECK, DF (25T, 50T, AN - Tons 18.96	ilename: <u>M120</u> sis: <u>1 per da</u> rce: <u>CRG Da</u> DR, 6X4, DIESEL 2006) ROP DECK EQU	0-011
User: A EQUIPMI EQUIPMI EQUIPMI EQUIPMI Ow Ow Op Ow Op Op Tot NON ROA	gency or ENT TR Truck T Truck T down: e Rig Cap nership C perating C	organizatior <b>RANSPOR</b> Fractor Desc Trailer Desc <b>Dacities</b> Cost/Hour:	n name: <u>DRMS</u> <u>T RIG COST</u> ription: GENE ription: G <u>0-25 Tons</u> \$21.47	RIC ON-HIGH ENERIC FOLD 26-50 Tons \$38.32	WAY TRU 400 HP DING GOO TRAILER 51+	Shift ba Cost Data Sour JCK TRACTO (2ND HALF, SENECK, DF (25T, 50T, AN (25T, 50T, AN (25T, 50T, A)	sis: <u>1 per da</u> rce: <u>CRG Da</u> DR, 6X4, DIESEL 2006) ROP DECK EQU	uy uta L POWERED,
EQUIPMI Cost Break Available Ow Op Op Tot NON RO 4	ENT TR Truck T Truck T down: e Rig Cap nership C perating C	Cractor Desc         Fractor Desc         Frailer Desc         Dacities         Cost/Hour:	T RIG COST ription: GENE ription: G 0-25 Tons \$21.47	RIC ON-HIGH ENERIC FOLD 26-50 Tons \$38.32	WAY TRU 400 HP DING GOO TRAILER 51+	Cost Data Sour JCK TRACTO (2ND HALF, SENECK, DF (25T, 50T, AN - Tons 18.96	rce: <u>CRG Da</u> DR, 6X4, DIESEL 2006) ROP DECK EQU	L POWERED,
Cost Breake Available Ow Op O Tot NON RO A	Truck T Truck T down: Rig Cap nership C perating C	Fractor Desc Frailer Desc Dacities	ription: GENE ription: G 0-25 Tons \$21.47	ENERIC FOLD 26-50 Tons \$38.32	WAY TRU 400 HP DING GOO TRAILER 51+	Cost Data Sour JCK TRACTO (2ND HALF, SENECK, DF (25T, 50T, AN - Tons 18.96	rce: <u>CRG Da</u> DR, 6X4, DIESEL 2006) ROP DECK EQU	L POWERED,
Available Ow Op O Tot	Truck T down: e <b>Rig Cap</b> nership C perating C	Trailer Desc Dacities	ription: G	ENERIC FOLD 26-50 Tons \$38.32	WAY TRU 400 HP DING GOO TRAILER 51+	Cost Data Sour JCK TRACTO (2ND HALF, SENECK, DF (25T, 50T, AN - Tons 18.96	rce: <u>CRG Da</u> DR, 6X4, DIESEL 2006) ROP DECK EQU	L POWERED,
Available Ow Op O Tot	Truck T down: e <b>Rig Cap</b> nership C perating C	Trailer Desc Dacities	ription: G	ENERIC FOLD 26-50 Tons \$38.32	WAY TRU 400 HP DING GOO TRAILER 51+	Cost Data Sour JCK TRACTO (2ND HALF, SENECK, DF (25T, 50T, AN - Tons 18.96	rce: <u>CRG Da</u> DR, 6X4, DIESEL 2006) ROP DECK EQU	L POWERED,
Available Ow Op O Tot	Truck T down: e <b>Rig Cap</b> nership C perating C	Trailer Desc Dacities	ription: G	ENERIC FOLD 26-50 Tons \$38.32	WAY TRU 400 HP DING GOO TRAILER 51+	JCK TRACTO (2ND HALF, )SENECK, DF (25T, 50T, AN - Tons 18.96	DR, 6X4, DIESEL 2006) ROP DECK EQU	L POWERED,
Available Ow Op O Tot	Truck T down: e <b>Rig Cap</b> nership C perating C	Trailer Desc Dacities	ription: G	ENERIC FOLD 26-50 Tons \$38.32	400 HP DING GOO TRAILER 51+	(2ND HALF, SENECK, DF (25T, 50T, AN - Tons - 8.96	2006) ROP DECK EQU	-
Available Ow Op O Tot	<u>down:</u> <b>Rig Cap</b> nership C perating C	<b>Dacities</b> Cost/Hour:	0-25 Tons \$21.47	<b>26-50 Tons</b> \$38.32	DING GOO TRAILER 51+ \$4	SENECK, DF (25T, 50T, AN - Tons - 8.96	ROP DECK EQU	IPMENT
Available Ow Op O Tot	<u>down:</u> <b>Rig Cap</b> nership C perating C	<b>Dacities</b> Cost/Hour:	0-25 Tons \$21.47	<b>26-50 Tons</b> \$38.32	<u>TRAILER</u> 51+	(25T, 50T, AN - Tons - 18.96		IPMENT
Available Ow Op O Tot	e <b>Rig Cap</b> nership C perating C	Cost/Hour:	\$21.47	<b>26-50 Tons</b> \$38.32	<b>51</b> + \$4	- <b>Tons</b> 18.96	ND 100T)	
Available Ow Op O Tot	e <b>Rig Cap</b> nership C perating C	Cost/Hour:	\$21.47	\$38.32	\$4	8.96		
Available Ow Op O Tot	e <b>Rig Cap</b> nership C perating C	Cost/Hour:	\$21.47	\$38.32	\$4	8.96		
Ow Op O Tot	nership C erating C	Cost/Hour:	\$21.47	\$38.32	\$4	8.96		
Op O Tot NON ROA	erating C							
O Tot		Cost/Hour:	\$31.47	\$60.11				
Tot						5.86		
Tot		Cost/Hour:	\$22.52	\$22.52		2.52		
NON ROA		Cost/Hour:	\$0.00	\$22.25		2.25		
	al Unit C	Cost/Hour:	\$75.46	\$143.20	\$1	59.59		
NC 11	ADABL	E EQUIPN	MENT:					
Machine		Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Descriptio	\n	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
Description	11	(TONS)		t	5120	fleet		
Cat D8T -	8SU	47.71	\$179.60	\$143.20	2	\$645.60	\$286.40	\$500.00
Drill/Broad Seeder with Tractor	lcast	25.00	\$5.99	\$75.46	1	\$81.45	\$75.46	\$250.00
Water Tanl 5,000 Gal.	cer,	15.00	\$53.71	\$75.46	1	\$129.17	\$75.46	\$250.00
Cat 637G v pull	v/push-	59.59	\$285.51	\$159.59	2	\$890.20	\$319.18	\$500.00
CAT 14M		23.57	\$107.85	\$75.46	1	\$183.31	\$75.46	\$250.00
CAT 972H			\$65.96	\$143.20	2	\$418.32	\$286.40	\$500.00
		28.00	\$03.90	φ1 <del>1</del> 3.20		\$H10.52	\$280.40	

### **ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 1 T. Crew	\$31.11	1	\$31.11	\$31.11
Generic 12-18 cy, 6x4	\$111.61	2	\$223.22	\$223.22
		Subtotals:	\$254.33	\$254.33

## **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	GREELEY	
Total one-way travel distance:	16.00	miles
Average Travel Speed:	50.00	mph
Total Non-Roadable Mob/Demob Cost *	\$25,502.90	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$162.77	

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.32	0.32
Return Time (Hours):	0.32	0.32
Loading Time (Hours):	2.00	NA
Unloading Time (Hours):	2.00	NA
Subtotals:	4.64	0.64

### JOB TIME AND COST

Total job time: 9.28 Hours

Total job cost: \$25,666

Page 1 of 2

## SCRAPER TEAM WORK

Site: Bernhardt Resou	rce	Permit Action	: 2025 Inspecti	on P	ermit/Job#: <u>M2</u>	002120
PROJECT IDENT	<b>IFICATION</b>					
Task #: 018	S	tate: Colorado		Abbre	viation: None	
Date: $6/18/2$	025 Cou	inty: Weld		Fil	ename: M120-	018
User: NCG						
Agency or c	rganization name:	DRMS				
HOURLY EQUIP	MENT		COSTS	Shift basis: 1 per	day	
					<u>/</u>	
	-8		ent Description 7G w/push-pull			
			T - 8SU			
Suppor	t Equipment -Load		T - 8SU			
Boad Mai	-Dump ntenance –Motor C		4M			
Koad Wa	-Water		Tanker, 5,000 Ga	ıl.		
<u>Cost Breakdown</u> :	Scraper Worl	k Team Dozer	Support Equi Load Area	ipment Dump Area	Maintenanc Motor Grader	e Equipmen Water Tru
	Scraper			-		
%Utilization-machine:	100	100	100	NA	25	
Ownership cost/hour:	\$285.51	\$179.60	\$179.60	NA	\$101.88	\$53
Operating cost/hour:	\$313.00	\$110.45	\$110.45	NA	\$18.29	\$48
%Utilization-ripper:	NA	NA #0.00	NA ©0.00	NA	NA ©0.00	
Ripper own. cost/hour:	NA	\$0.00	\$0.00	NA	\$0.00	\$0
Ripper op. cost/hour: Operator cost/hour:	NA \$59.78	\$0.00 \$39.46	\$0.00 \$39.46	NA NA	\$0.00 \$58.07	\$0 \$0
Unit Subtotals:	\$658.29	\$329.51	\$39.40	NA	\$38.07	\$102
Number of Units:	2	\$529.51	\$329.31	0	\$178.24	\$102
Group Subtotals:	Work:	\$1,646.09	Support:	\$329.51	Maint:	\$280.27
*		\$1,010.05	Support.	ψ329.51	Iviuiiit.	φ200 <b>.</b> 21
Total work team cost/	hour: <u>\$2,255.87</u>					
MATERIAL QUA	NTITIES					
Initial volume:	8,873	CCY	Swell fact	tor: 1.000		
Loose volume:	8,873	LCY	Swell lac	1.000		
Sour	ce of estimated vo	lume: Amendr	nent 1 Cost Estin	nate		
	f estimated swell fa			late		
HOURLY PRODU	<b>ICTION</b>					
			Scraper B	Bowl (volume) Ba	usis:	
Material weight:	1,600 lbs/LCY		Struck	Volume: 24.00	L	CY
Material description:	Top Soil		Heaped	Volume: 34.00	L	CY
Rated Payload: Payload Capacity:	81,600 pounds		Average			CY
	51.00 LCY		Adjusted C	Capacity: 29.00	T	CY

#### Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

<u>1.00</u> Minutes <u>0.60</u> Minutes

#### Job Condition Correction:

Site Altitude: 4730 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

#### Travel Time:

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

#### Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	0.00	3.00	3.00	2800	0.39

0.39 Haul Time: minutes

#### **Return Route:**

Travel Time (min)
0.32
ninutes
minutes
LCY/Hour
Scraper(s)
LCY/Hour
LCY/Hour
-

#### JOB TIME AND COST

Fleet size:	1	Team(s)	Total job time:	7.10	Hours
Unit cost:	\$1.804	/LCY	Total job cost:	\$16,009	

Task # 018A

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## SCRAPER TEAM WORK

Site: Bernhardt Resour	rce	Permit Action:	2025 Inspecti	on P	Permit/Job#: <u>M2</u>	002120
PROJECT IDENTI	<b>FICATION</b>					
Task #: 018A	S	tate: Colorado		Abbre	viation: None	
Date: $6/18/20$	25 Cou	nty: Weld		Fil	ename: M120-	018a
User: NCG						
Agency or or	ganization name:	DRMS				
HOURLY EQUIPM	<u>IENT</u>		COSTS	Shift basis: <u>1 per</u>	<u>day</u>	
		Equipmer	nt Description			
			G w/push-pull			
Support	Equipment -Load	Dozer:Cat D81Area:Cat D81				
Support	-Dump-Dump		- 050			
Road Mair	tenance – Motor C	brader: CAT 14				
	-Water	Truck: Water T	anker, 5,000 Ga	1.		
Cost Breakdown:	Scraper Worl	Team	Support Equi	nment	Maintenanc	e Equipment
<u>Cost Di Cakdown</u> .	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truc
%Utilization-machine:	100	100	100	NA	25	1(
Ownership cost/hour:	\$285.51	\$179.60	\$179.60	NA	\$101.88	\$53.7
Operating cost/hour:	\$313.00	\$110.45	\$110.45	NA	\$18.29	\$48.3
%Utilization-ripper:	NA	NA	NA	NA	NA	N
Ripper own. cost/hour:	NA	\$0.00	\$0.00	NA	\$0.00	\$0.0
Ripper op. cost/hour:	NA	\$0.00	\$0.00	NA	\$0.00	\$0.0
Operator cost/hour:	\$59.78	\$39.46	\$39.46	NA	\$58.07	\$0.0
Unit Subtotals:	\$658.29	\$329.51	\$329.51	NA	\$178.24	\$102.0
Number of Units:	2	1	1	0	1	
Group Subtotals:	Work:	\$1,646.09	Support:	\$329.51	Maint:	\$280.27
Total work team cost/h		_				
Initial volume: Loose volume:	29,846 <b>29,846</b>	CCY LCY	Swell fact	tor: <u>1.000</u>		
	ce of estimated vol Sestimated swell fa		ent 1 Cost Estin book	nate		
HOURLY PRODU	CTION					
			Scraper B	owl (volume) Ba	usis:	
Material weight:	1,600 lbs/LCY		-	Volume: 24.00		СҮ
Material description:	Top Soil		Heaped	Volume: 34.00	L	CY
Rated Payload:	81,600 pounds		Average			CY
Payload Capacity:	51.00 LCY		Adjusted C	Capacity: 29.00	т	CY

#### Cycle Time:

Scraper Loading Time: Maneuver and Spread Time: <u>1.00</u> Minutes <u>0.60</u> Minutes

#### Job Condition Correction:

Site Altitude: 4730 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

#### Travel Time:

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

#### Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	0.00	3.00	3.00	2800	0.39

Haul Time: 0.39 minutes

#### Return Route:

)	0.00				
	0.00	3.00	3.00	2949	0.32
			Return Time:	0.32	minutes
	team cycle time:	2.31	minutes		
	1,250.39	LCY/Hour			
	2	Scraper(s)			
Adjusted s	single scrape	r team (unit) h	ourly production:	1,250.39	LCY/Hour
Adjusted mu	ltiple scrape	team (fleet) h	ourly production:	1,250.39	LCY/Hour
			LCY/Hour		_
	Adjusted mul	Adjusted multiple scraper	Adjusted fo Selected Nur Adjusted single scraper team (unit) he Adjusted multiple scraper team (fleet) he	Total Scraper team cycle time: Adjusted for job conditions: Selected Number of Scrapers: Adjusted single scraper team (unit) hourly production: Adjusted multiple scraper team (fleet) hourly production: justed unit production/hour: <u>1,506.49</u> LCY/Hour	Total Scraper team cycle time:Adjusted for job conditions:1,250.39Selected Number of Scrapers:2Adjusted single scraper team (unit) hourly production:1,250.39Adjusted multiple scraper team (fleet) hourly production:1,250.39justed unit production/hour:1,506.49LCY/Hour

Fleet size:	1	Team(s)	Total job time:	23.87	Hours
Unit cost:	\$1.804	/LCY	Total job cost:	\$53,846	

## TRUCK/LOADER TEAM WORK

Site: Bernhardt Resou	irce	Permit Ac	tion: 2025 Inspe	ection	Permit/Job#:	M2002120
PROJECT IDENT	<b>TIFICATION</b>					
Task #: 019		State: Color			breviation: <u>No</u>	
Date: $6/18/2$	025	County: Weld			Filename: M	120-019
User: NCG						
Agency or o	organization nan	ne: DRMS				
HOURLY EQUIP	MENT COST			Shift ba	sis: <u>1 per day</u>	
			Equipment Descr			
Tr	uck Loader Tea		neric 12-18 cy, 6x	4		
Suppor	rt Equipment -L		T 972H D8T - 8SU			
Suppor	1 1		t D8T - 8SU			
Road Mar	intenance – Moto	or Grader: NA	L			
	-Wa	ter Truck: Wa	ter Tanker, 5,000	Gal.		
Cost Breakdown:	Truck/Loa	der Team	Support	Equipment	Mainten	ance Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
6Utilization-machine:	100	100	100	100	NA	100
Ownership cost/hour:	\$28.52	\$65.96	\$179.60	\$179.60	NA	\$53.71
Operating cost/hour:	\$58.59	\$60.89	\$110.45	\$110.45	NA	\$48.32
%Utilization-riper:	NA	0	NA	NA	NA	NA
ipper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	NA	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	NA	\$0.00
Operator cost/hour:	\$24.50	\$59.52	\$39.46	\$39.46	NA	\$0.00
Unit Subtotals:	\$111.61	\$186.37	\$329.51	\$329.51	NA	\$102.03
Number of Units:	2	1	1	1	0	1
Group Subtotals:	Work:	\$409.59	Support:	\$659.02	Maint:	\$102.03
Total work team cost/	'hour: <u><b>\$1,170.6</b></u>	4				
MATERIAL QUA	NTITIES					
Initial volume:		ССУ		factor: <u>1.000</u>		
Loose volume:	36,72	0 LCY	7			
Sour	rce of estimated	volume: Ame	endment 1 Cost Es	stimate		
Source of	of estimated swe		Handbook			
	Material Purcha					
	To	tal Cost: \$220	),320.00			

#### HOURLY PRODUCTION

# Truck Capacity:

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

Truck/Loader Worksheet Cont	Task # 019			Page 2 of	3	
Payload Capacity:	31.44	LCY				
Truck Bed (volume) Basis: Struck Volume: Heaped Volume: Average Volume: Adjusted Volume:	18.00 I 15.00 I	JCY JCY JCY JCY				
	ruck Volume B	ased on Number of L	oader Passes:	17.64	LCY	
Loading Tool Capacity			Dual	tet Size Class: N	τ <b>λ</b>	
Rated Capacity:	5.600	LCY (heaped)	Биск	tet Size Class:	NA	_
Bucket Fill Factor:	1.050	Moist loam or sa	ndy clay (100%	% - 110%) 1.050		_
Adjusted Capacity:	5.880	LCY		/		_
Job Condition Corrections:		Site	Altitude (ft.):	<u>4730</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HE			
Job Efficiency:	0.830	0.830	(CAT HE	3)		
Net Correction:	0.830	0.830				
Loading Tool Cycle Time:	N	umber of Loading To	ol Passes Req	uired to Fill	2	passes
Excavators and Front Shovels		C	1	Truck:	3	1
Machine Cycle Time vs. Selected Value w	Job Condition ithin this Basic	Rating: NA				
Track Loaders – M	Aaterial Descrip	otion:				
Cycle Time Elements (min.):						
Load: NA	Ma	neuver: NA		Dump: 0.10	0	
Wheel and Track	Loaders - Unad	justed Basic Loader	•	oad, dump, naneuver):	).525 min	utes
Cycle Time Factors				Factor (min.)	Source	
Material:	Mixed materia			0.020	(Cat HB)	_
Stockpile:	Dumped by tr			0.020	(Cat HB)	_
Truck Ownership:	Common own 0.04	ership of trucks and I	loaders -	-0.040	(Cat HB)	
Operation:	Constant oper			-0.040	(Cat HB)	
Dump Target:	Nominal targe			0.000	(Cat HB)	_
		Net Cycle Time		-0.040	minutes	
		Adjusted Loader Net Load Tim		0.485	minutes minutes	
Truck Cycle Time:			÷ _		_	
Truck Exchange Time:	0.50	Minutes	Adjusted	for site altitude:	0.500	Minutes
Truck Exchange Time. Truck Load Time:		Minutes	•	for site altitude:	1.070	Minutes
		_	5	-		_
Truck Maneuver and Dump Time:		Minutes	Adjusted	for site altitude:	0.900	Minutes

<u>Truck Travel (Haul &amp; Return) Time:</u> maintained 3.0	Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered,

Haul Route	-	D' .				<b>TT 1</b> 1.	<b>T</b> 1		
Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fnm)	Travel Time		
						(fpm)	(min)		
1	500.0	0	0.00	3.00	3.00	2824	0.338		
					Haul Time:	0.338	n	ninutes	
Return Rou	ite:								
Seg #		Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel		
	(Ft)			(%)	(%)	(fpm)	Time (min)		
1	500.0	0	0.00	3.00	3.00	2874	0.209		
					Return Time:	0.209	)	minutes	
				Total True	ck Cycle Time:			minutes	
Loading Too	l unit								
Produ	ction	674.14	LCY/Hour		Adjusted for jo	b efficiency:	559	9.54	LCY/Hour
Truck Unit Produ	ction						•		
	-	350.81	LCY/Hour		Adjusted for jo	b efficiency:	29.	1.17	LCY/Hour
Optimal No. of Tr	ucks:	2	Truck(s)		Selected Numb	er of Trucks:		2	Truck(s)
			Adjusted	l hourly truck	team production	on: 582	.35	LCY/H	our
					team production		.54	LCY/H	our
Adjusted multiple truck/loader team production: 559.54 LC						LCY/H	our		
	TE AND	DCOST							
JOB TIM	L AN								
Fleet	size:	1	Team(s)	T	otal job time:	65.6.	3	Hours	S

 Unit cost:
 \$2.092
 /LCY
 Total job cost:
 \$297,144