

STATE OF
COLORADO

Girardi - DNR, Chris <chris.girardi@state.co.us>

Bachus Pit, M1995034- September 2024 Inspection Report and Cost Estimate

1 message

Girardi - DNR, Chris <chris.girardi@state.co.us>
To: "abshawnee12@yahoo.com" <abshawnee12@yahoo.com>
Cc: Jared Ebert - DNR <jared.ebert@state.co.us>

Fri, Nov 8, 2024 at 10:16 AM

Good morning Mr. Absmeier,

Attached to this email is a copy of the Division's Inspection Report for the inspection conducted on September 6, 2024.

Also attached to this email is the Division's updated bond estimate to complete reclamation at the site.

A hard copy will be sent as well.

Please let me know if you have any questions.

Thanks,
Chris

Chris Girardi

Environmental Protection Specialist Intern



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

P: (720) 793-3041

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BachusPit_2024InspectionReport_CostEstimate.pdf
2202K



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: Bachus Pit	MINE/PROSPECTING ID#: M-1995-034	MINERAL: Borrow material	COUNTY: Alamosa
INSPECTION TYPE: Monitoring	WEATHER: Clear	INSP. DATE: September 6, 2024	INSP. TIME: 08:00
OPERATOR: Absmeier Landscaping & Construction, LLC	OPERATOR REPRESENTATIVE: Adrian Absmeier	TYPE OF OPERATION: 112c - Construction Regular Operation	

REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: Complete	BOND AMOUNT: \$24,002.00
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None
INSPECTOR(S): Chris Girardi Jared Ebert	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: 11/8/2024

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: Revegetation

PROBLEM: There are state-listed noxious weeds present on site. This is a problem for failure to employ weed control methods for state listed noxious weed species within the permitted area, and to reduce the spread of weeds to nearby areas as required by Section 3.1.10 (6) of the rule.

CORRECTIVE ACTIONS: The Operator shall develop a Weed Control Plan and submit this plan as well as a timeline for its implementation as a Technical Revision to the permit. The Technical Revision will be submitted to the Division by the corrective action due date noted below.

CORRECTIVE ACTION DUE DATE: 12/6/24

OBSERVATIONS

The Bachus Pit was inspected on September 5, 2024 at by Chris Girardi and Jared Ebert with the Division of Reclamation, Mining, and Safety (DRMS). The inspection was completed as part of the DRMS's routine monitoring inspection program. The site was last inspected on March 28, 2019, as part of a routine monitoring inspection. Adrian Absmeier represented Absmeier Landscaping (Operator) during the inspection. The weather sunny and chilly.

The Bachus Pit is a 112c sand and gravel borrow material operation that consists of 60.61 acres and is located approximately 5 miles southwest of Alamosa, CO. The approved post-mining land use is rangeland. The current land use surrounding the site is rangeland.

A mine identification sign was located at the entrance to the site in compliance with Rule 3.1.12 (see Photo 1). The site is accessed from the west using a gate. The permit boundary is enclosed with a fence.

General Compliance With Mine Plan:

At the time of the inspection, no mining activity was observed. The site consists of a large pit approximately 28-acres in size and approximately 18 feet in depth. Vegetation has established in patches throughout the site consisting of Rabbit brush and small pockets of noxious weeds (see Photo 2). The pit maintains a highwall with slopes of 3:1 or less, with the exception of a vertical highwall in the northwest corner of the pit (see Photo 5). The Operator has allowed Adams State College geology students to visit the highwall to observe geological features. According to the Operator, however, the college has not visited the site for several years.

A wheel loader was located adjacent to the west highwall (see Photo 4). Minor ponding was observed in the pit. However, there had been heavy precipitation in the area the previous day (see Photos 1,3, 4, and6). Minor rilling erosion of the pit slope was observed in the southwest corner of the pit (see Photo 9). The DRMS noted that if increased erosion of the south pit slopes occurs, then stabilization measures will be necessary to remain in compliance with Rule 3.1.6(3) of the Construction Materials Rules and Regulations governing erosion of affected land. A stockpile of mulch was observed in the southwest area of the pit which, according to the Operator, had been recently placed by a mulch company. The DRMS noted that the Operator can't bury mulch in accordance with Rule 3.1.5(9) governing the burying of non-inert material. The Operator noted that no active reclamation had been completed and that the pit has naturally revegetated itself, as evidenced by the significant amount of Rabbit brush on the pit floor. During the inspection, it was observed that the northern area of the highwall was encroaching upon the northern boundary marker (see Photo 6).

A noxious weed infestation has occurred at the site. Noxious weed species observed were Halogeton, Russian knapweed, Russian thistle, and a Russian olive tree (see Photos 7-8). Halogeton was primarily concentrated in the northeast portion of the site. One (1) Russian olive tree was observed along the entry road leading to the northwest corner of the pit (see Photo 9). According to the Operator, Russian olive trees are removed annually. This has been cited as a problem. In accordance with Rule 3.1.10(6) of the Construction Materials Rules and Regulations governing weed control, the DRMS will require the Operator to develop a weed control plan to be employed to control the current infestation and prevent the spread of weeds to the surrounding area.

Financial Warranty:

The Division currently holds a reclamation bond in the amount of \$24,002. for this operation. The Division has estimated the reclamation liability at the site, and found it to be \$35,286. This is an increase of \$11,284 from the bond currently held. The Operator will have 14 days (November 22, 2024), from the issuance of this report to submit any questions regarding the updated cost estimate. If no questions are received, the Division may issue a Surety Increase notice for the difference. The Operator will have 60 days from the date of the notice to submit and obtain acceptance of the increase in financial warranty from the Division in accordance with Rule 4.2.1(2).

PHOTOGRAPHS



Photo 1: Mine Signage at gate.



Photo 2: Pit floor with rabbit brush vegetation.



Photo 3: Pit floor with vegetation and minor ponding.



Photo 4: Wheel loader adjacent to the east highwall.



Photo 5: View of Vertical Highwall along eastern portion of pit, mulch pile on pit floor



Photo 6: Highwall along north site of pit, minor ponding.



Photo 7: Minor rilling erosion of the pit along the southwest corner, Russian knapweed, and rabbit brush vegetation.



Photo 8: Halogeton weed infestation along the pit floor.



Photo 9: One Russian olive tree in the northwest area of the pit floor.

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

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

Inspection Contact Address

Adrian Absmeier
Absmeier Landscaping & Construction, LLC
P.O. Box 1134
Alamosa, CO 81101

Enclosure

CC:

COST SUMMARY WORK

Task description: Reclaim site

Site: Bachus Pit

Permit Action: 2024 Inspection

Permit/Job#: M1995034

PROJECT IDENTIFICATION

Task #: 000
Date: 11/1/2024
User: CMG

State: Colorado
County: Alamosa

Abbreviation: None
Filename: M034-000

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Reduce highwalls, fill in erosion rills	DOZER	1	7.51	\$3,585
002A	Weed Control	REVEGE	1	7.00	\$2,372
002B	Revegetation	REVEGE	1	28.00	\$17,579
003	Mobilize Reclamation Equipment	MOBILIZE	1	2.35	\$2,366
<u>SUBTOTALS:</u>				44.86	\$25,902

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02
Performance bond: 1.05
Job superintendent: 22.43
Profit: 10.00

Total = \$523
Total = \$272
Total = \$1,778
Total = \$2,590

TOTAL O & P = \$5,163

CONTRACT AMOUNT (direct + O & P) = \$31,065

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$0
Engineering work and/or contract/bid preparation: 8.59
Reclamation management and/or administration: 5.00

Total = \$0
Total = \$2,668
\$1,553

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$9,384

TOTAL BOND AMOUNT (direct + indirect) = \$35,286

BULLDOZER WORK

Task description: Reduce highwalls, fill in erosion rills

Site: Bachus Pit Permit Action: 2024 Inspection Permit/Job#: M1995034

PROJECT IDENTIFICATION

Task #: 001 State: Colorado Abbreviation: None
Date: 11/1/2024 County: Alamosa Filename: M034-001
User: CMG

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D9T - 9SU
Horsepower: 405
Blade Type: Semi-Universal
Attachment: 3-shank ripper
Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$253.16</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$164.35</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$18.79</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$2.37</u>	<u>25</u>
Operator Cost/Hour:	<u>\$38.59</u>	<u>NA</u>
Total unit Cost/Hour:	<u>\$477.26</u>	
Total Fleet Cost/Hour:	<u>\$477.26</u>	

MATERIAL QUANTITIES

Initial Volume: 5,859
Swell factor: 1.266
Loose volume: 7,416 LCY

Source of estimated volume: Highwall 1500' in length, 20' height, cut-fill dozing
Source of estimated swell
factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 50 feet
Unadjusted hourly
production: 2,110.5 LCY/hr

Materials consistency
description: Compacted fill or embankment 0.9

Average push
gradient: -10 %
Average site altitude: 7,560 feet

Material weight: 2,700 lbs/LCY

Weight description: Sand and clay - Loose

<u>Job Condition</u>	<u>Correction Factor</u>	<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.225	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.852	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4678

Adjusted unit
production: 987.29 LCY/hr

Adjusted fleet
production: **987.29** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.483/LCY

Total job time: **7.51** Hours
Total job cost: **\$3,585**

REVEGETATION WORK

Task description: Weed Control

Site: Bachus Pit Permit Action: 2024 Inspection Permit/Job#: M1995034

PROJECT IDENTIFICATION

Task #: 002A State: Colorado Abbreviation: None
Date: 11/7/2024 County: Alamosa Filename: M034-002A
User: CMG

Agency or organization name: DRMS

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
Weed control spraying (MEANS 31 31 16.13 3100)	\$338.80
Total Tilling Cost/Acre	\$338.80

SEEDING

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

Application

Description	Cost /Acre
	\$

Total Seed Application Cost/Acre	\$0.00
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MULCHING and MISCELLANEOUS

Materials

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

Application

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

NURSERY STOCK PLANTING

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

JOB TIME AND COST

No. of Acres:	7	Cost /Acre:	\$338.80
Estimated Failure Rate:	0%	Cost /Acre*:	\$0.00
*Selected Replanting Work Items:	NONE		

Initial Job Cost:	\$2,371.60
Reseeding Job Cost:	\$0.00
Total Job Cost:	\$2,372
Job Hours:	7.00

REVEGETATION WORK

Task description: Revegetation

Site: Bachus Pit Permit Action: 2024 Inspection Permit/Job#: M1995034

PROJECT IDENTIFICATION

Task #: 002B State: Colorado Abbreviation: None
Date: 11/1/2024 County: Alamosa Filename: M034-003
User: CMG

Agency or organization name: DRMS

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)	\$117.61
Total Tilling Cost/Acre	\$117.61

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Crested Wheatgrass - Hy-Crest	5.00	22.96	\$25.24
Tall Wheatgrass - Jose	8.00	14.51	\$45.98
Flax, Lewis Blue	2.00	13.27	\$84.60
Totals Seed Mix	15.00	50.73	\$155.82

Application

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

Total Seed Application Cost/Acre	\$236.64
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MULCHING and MISCELLANEOUS

Materials

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

Application

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

NURSERY STOCK PLANTING

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

JOB TIME AND COST

No. of Acres:	28	Cost /Acre:	\$510.07
Estimated Failure Rate:	30%	Cost /Acre*:	\$392.46
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost:	\$14,281.96
Reseeding Job Cost:	\$3,296.66
Total Job Cost:	\$17,579
Job Hours:	28.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: **Mobilize Reclamation Equipment**

Site: **Bachus Pit** Permit Action: 2024 Inspection Permit/Job#: M1995034

PROJECT IDENTIFICATION

Task #: 003 State: Colorado Abbreviation: None
Date: 11/1/2024 County: Alamosa Filename: M034-004
User: CMG

Agency or organization name: DRMS

EQUIPMENT TRANSPORT RIG COST

Shift basis: 1 per day
Cost Data Source: CRG Data

Truck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED, 400 HP (2ND HALF, 2006)

Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT TRAILER (25T, 50T, AND 100T)

Cost Breakdown:

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 D9T - 9SU	66.13	\$271.95	\$125.64	1	\$397.59	\$125.64	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$41.02	\$59.44	2	\$200.92	\$118.88	\$250.00

Subtotals:

\$598.51	\$244.52	\$500.00
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ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Generic 5-6 cy, 4x2	\$67.88	1	\$67.88	\$67.88
Lube Truck, 4x2, 190 HP	\$41.41	1	\$41.41	\$41.41

Subtotals:

\$109.29	\$109.29
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EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>ALAMOSA</u>	
Total one-way travel distance:	<u>4.00</u>	miles
Average Travel Speed:	<u>45.00</u>	mph
 Total Non-Roadable Mob/Demob Cost *	 \$2,346.89	
‘* two round trips with haul rig:		
Total Roadable Mob/Demob Cost **	<u>\$19.43</u>	
** one round trip, no haul rig:		

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.09</u>	<u>0.09</u>
Return Time (Hours):	<u>0.09</u>	<u>0.09</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>1.18</u>	<u>0.18</u>

JOB TIME AND COST

Total job time:	<u>2.36</u>	Hours
Total job cost:	<u>\$2,366</u>	