



STATE OF
COLORADO

Simmons - DNR, Leigh <leigh.simmons@state.co.us>

M2025003, Russell Gulch Reclamation Project, Third Adequacy Review with RCE

Simmons - DNR, Leigh <leigh.simmons@state.co.us>

Thu, May 1, 2025 at 3:11 PM

To: Greg Smith <gregorydavidsmith@gmail.com>, Harold Lesser <alpinecompanies1@gmail.com>

Greg, Jay,

Please find the Division's adequacy review letter attached.

Let me know if you have any questions,

Leigh Simmons
Environmental Protection Specialist



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

P [720.220.1180](tel:720.220.1180)

1313 Sherman Street, Room 215, Denver, CO 80203

leigh.simmons@state.co.us | <https://drms.colorado.gov>



M2025003_Application_AdequacyReview_3_RCE.pdf
898K



Greg Smith
CRS LLC.
64 Hyland Dr Unit B
Evergreen, CO, 80439

May 1, 2025

**Re: Russell Gulch Reclamation Project Application (M-2025-003)
Third Adequacy Review**

Dear Mr. Smith,

The Division has completed an initial review of the materials submitted with the Russell Gulch Reclamation Project 110d application. Comments are organized by rule citation. Please review the following comments and address the numbered items in bold.

Rule 6.3.2 Exhibit B - Site Description

1. Response is sufficient.

Rule 6.3.3 Exhibit C - Mining Plan

2. Response is sufficient.
3. Response is sufficient.
4. Stormwater discussion was moved to Exhibit C, as requested. A number of general erosion and sediment control measures and best practices were listed. Of particular note is a commitment to use 12 inches of topsoil over disturbed areas prior to seeding, for final site stabilization.

The response to this item is sufficient, but please refer to item 10.

5. Exhibit C was revised to clarify that four of the historic waste piles existing on the site will be processed. The location of the processing circuit will not change. The largest waste pile (nearest the circuit) will be processed first, followed by the two smaller piles directly East of the circuit location. The East most waste pile will be processed last. This material will be transported to the processing circuit location via conveyors. Exhibit C was further modified that the conveyors are mobile, but must be transported on a trailer.

Response is sufficient.



Rule 6.3.4 Exhibit D – Reclamation Plan

6. Response is sufficient.
7. Response is sufficient.
8. Although a cost estimate (of \$10,000) was provided in Exhibit D, as is customary, the Division has completed its own Reclamation Cost Estimate, using standard CIRCES cost-estimating software. CIRCES is updated annually with costs based on the RS Means handbook. Standard indirect costs are added, to come up with an estimate of the total amount it would cost the Division to reclaim the site under a worst-case scenario. This dollar amount is the Minimum Required Surety.

Please review the Reclamation Cost Estimate provided in Appendix 1 and reply with any comments.

Rule 6.3(5) Exhibit E – Maps

9. Response is sufficient.

Rule 6.3(6) Exhibit F - Other permits

10. Exhibit F was revised to provide a list of 3 other permits that would be required:
 - Driveway
 - County Special Use
 - Road/site grading

Each of these has either been provided or is in progress.

A statement was included that after conferring with Gilpin County it was determined that no construction stormwater permit is required since the total planned surface disturbance is less than 1.0 acres.

Exhibit F was further modified to include correspondence from the Water Quality Control Division stating that no discharge permit would be required for the operation, provided that CRS LLC does not allow stormwater to discharge offsite. This places the burden on CRS LLC to ensure that stormwater is managed in such a way as to prevent any offsite discharge. The final paragraph of the email from WQCD reads:

“Note that discharging stormwater from the facility once mining activity has started, without the required stormwater discharge permit coverage, is a

violation of the CWQCA and may be subject to enforcement action by the Division. If conditions at the facility change such that a stormwater discharge permit is required, the owner/operator must apply for stormwater discharge permit coverage at least 30 days prior to any discharge."

Response is sufficient.

Rule 6.3(12) Exhibit L – Permanent Man-Made Structures

11. Response is sufficient.

The decision due date for the Russell Gulch Reclamation Project application is May 9, 2025. If necessary, please request an extension to this date that will give you sufficient time to respond to this adequacy review, and for the Division to review your response.

Sincerely,

A handwritten signature in blue ink, appearing to read "L. Simmons", is written over a faint, illegible printed name.

Leigh Simmons
Environmental Protection Specialist

Appendix 1: Reclamation Cost Estimate

COST SUMMARY WORK

Task description: Site-wide cost estimate

Site: Russell Gulch Reclamation Project

Permit Action: Application

Permit/Job#: M2025003

PROJECT IDENTIFICATION

Task #: 000
Date: 4/30/2025
User: LDS

State: Colorado
County: Gilpin

Abbreviation: None
Filename: M003-000

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Remove four mobile conveyors and five 5000 gal water tanks	MISCTRUK	1	8.00	\$725
002	Import 1,130 cu yd amended topsoil (see attached quote)	NA	1	0.00	\$48,490
003	Rip ground and spread topsoil	DOZER	1	6.85	\$1,409
004	Regrade up to 1 week's accumulated benign waste	DOZER	1	9.01	\$1,769
005	Broadcast seed 0.7 acres of disturbance	REVEGE	1	4.00	\$3,168
006	Mobilize Dozer and Loader	MOBILIZE	1	6.80	\$2,582
<u>SUBTOTALS:</u>				34.66	\$58,143

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$1,174
Performance bond:	1.05	Total =	\$611
Job superintendent:	17.33	Total =	\$1,374
Profit:	10.00	Total =	\$5,814
		TOTAL O & P =	\$8,973
		CONTRACT AMOUNT (direct + O & P) =	\$67,116

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	\$0	Total =	\$0
Engineering work and/or contract/bid preparation:	0.00	Total =	\$0
Reclamation management and/or administration:	5.00		\$3,356

CONTINGENCY: 0.00 Total = \$0

TOTAL INDIRECT COST = \$12,329

TOTAL BOND AMOUNT (direct + indirect) = \$70,472

MISCELLANEOUS TRUCK WORK

Task description: Remove four mobile conveyors and five 5000 gal water tanks

Site: Russell Gulch Reclamation Project Permit Action: Application Permit/Job#: M2025003

PROJECT IDENTIFICATION

Task #: 001 State: Colorado Abbreviation: None
Date: 4/30/2025 County: Gilpin Filename: M003-001
User: LDS

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Make and Model: Light Duty Pickup, 4x4, 1 T. Crew Horsepower: 340
Attachment 1: Fixed Gooseneck Trailer, 25 Ton Shift Basis: 1 per day
Attachment 2: Weight: 2.45
Labor Unit 1: Transport Rig Driver (US Tons)
Labor Unit 2: Helper

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$13.42</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$26.87</u>	<u>100</u>
Operator Cost/Hour:	<u>\$50.37</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$90.66</u>	
Total Fleet Cost/Hour:	<u>\$90.66</u>	

JOB TIME AND COST

Fleet size: 1 Truck(s) Total job time: 8.00 Hours
Unit cost: \$90.66 /Hour Total job cost: \$725



STATE OF
COLORADO

Simmons - DNR, Leigh <leigh.simmons@state.co.us>

Quote for topsoil

Keyser, Kevin (APC Construction) <kkeyser@apc.us.com>
To: "Simmons - DNR, Leigh" <leigh.simmons@state.co.us>

Wed, Apr 23, 2025 at 11:25 AM

Hi Leigh, for the 1,130 cubic yards of amended topsoil you would be looking at \$23 a cubic yard and \$500 per delivery I am assuming around 45 loads give or take, estimate of \$48,490 total with delivery before taxes. Please let me know if you have any questions.

Thanks,



Kevin Keyser, Landscape Supply Manager

APC Landscape Supply/ A CRH Company

15550 W. 44th Avenue, Golden, CO 80403

Office: 303.279.6683 | Cell: 719.250.0669 |

www.apc.us.com

From: Simmons - DNR, Leigh <leigh.simmons@state.co.us>
Sent: Wednesday, April 23, 2025 7:17 AM
To: Keyser, Kevin (APC Construction) <kkeyser@apc.us.com>
Subject: Quote for topsoil

Good morning,

I'm reviewing a mine permit application for a small project in Gilpin county. As part of their reclamation plan the applicant is proposing to cover their disturbance of approximately 0.7 acres with 12" of topsoil, and gave APC landscape as the

source of the material.

I need to come up with an estimate of the cost to complete the reclamation plan so that we can bond for it appropriately.

Can you give me a quote to deliver 1130 cubic yards of topsoil to the site (you can use central city as the location)?

Leigh Simmons

Environmental Protection Specialist

[Redacted signature]

[Quoted text hidden]

BULLDOZER WORKTask description: **Rip ground and spread topsoil**Site: **Russell Gulch Reclamation Project**

Permit Action:

ApplicationPermit/Job#: M2025003**PROJECT IDENTIFICATION**Task #: 003State: ColoradoAbbreviation: NoneDate: 4/30/2025County: GilpinFilename: M003-003User: LDSAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D6T XLHorsepower: 185Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$90.43</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$67.29</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$5.76</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$3.57</u>	<u>100</u>
Operator Cost/Hour:	<u>\$38.59</u>	<u>NA</u>

Total unit Cost/Hour: \$205.64Total Fleet Cost/Hour: **\$205.64****MATERIAL QUANTITIES**Initial Volume: 1,130Swell factor: 1.000Loose volume: **1,130 LCY**Source of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 150 feetUnadjusted hourly production: 212.5 LCY/hrMaterials consistency description: Loose stockpile 1.2Average push gradient: 5 %Average site altitude: 9,200 feetMaterial weight: 1,600 lbs/LCYWeight description: Top Soil**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	<u>0.750</u>	<u>(AVG.)</u>
Material consistency:	<u>1.200</u>	<u>(CAT HB)</u>
Dozing method:	<u>1.000</u>	<u>(GEN.)</u>

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.7760

Adjusted unit production: 164.90 LCY/hr

Adjusted fleet production: **164.9** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$1.247/LCY

Total job time: **6.85** Hours

Total job cost: **\$1,409**

BULLDOZER WORKTask description: **Regrade up to 1 week's accumulated benign waste**Site: **Russell Gulch Reclamation
Project**Permit Action: ApplicationPermit/Job#: M2025003**PROJECT IDENTIFICATION**Task #: 004
Date: 4/30/2025
User: LDSState: Colorado
County: GilpinAbbreviation: None
Filename: M003-004Agency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D6T XL
Horsepower: 185
Blade Type: Semi-Universal
Attachment: NA
Shift Basis: 1 per day
Data Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$90.43</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$67.29</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$0.00</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$0.00</u>	<u>0</u>
Operator Cost/Hour:	<u>\$38.59</u>	<u>NA</u>

Total unit Cost/Hour: \$196.31
Total Fleet Cost/Hour: **\$196.31****MATERIAL QUANTITIES**Initial Volume: 600
Swell factor: 1.000
Loose volume: **600 LCY**Source of estimated volume: Division of Reclamation, Mining & Safety
Source of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 150 feet
Unadjusted hourly production: 212.5 LCY/hrMaterials consistency description: Consolidated stockpile 1.0Average push gradient: 5 %
Average site altitude: 9,200 feetMaterial weight: 3,300 lbs/LCYWeight description: Decomposed rock - 75% Rock, 25% Earth**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	<u>0.750</u>	<u>(AVG.)</u>
Material consistency:	<u>1.000</u>	<u>(CAT HB)</u>
Dozing method:	<u>1.000</u>	<u>(GEN.)</u>

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.697	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3134

Adjusted unit production: 66.60 LCY/hr

Adjusted fleet production: **66.6** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$2.948/LCY

Total job time: **9.01** Hours

Total job cost: **\$1,769**

REVEGETATION WORKTask description: Broadcast seed 0.7 acres of disturbanceSite: Russell Gulch Reclamation ProjectPermit Action: ApplicationPermit/Job#: M2025003**PROJECT IDENTIFICATION**Task #: 005
Date: 4/30/2025
User: LDSState: Colorado
County: GilpinAbbreviation: None
Filename: M003-005Agency 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
	\$
Total Tilling Cost/Acre	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Arrowleaf Balsamroot	4.00	4.98	\$398.10
Arizona Fescue - Redondo	2.54	29.16	\$38.26
Bitterbrush, Antelope	22.63	6.96	\$1,278.79
Idaho Fescue	1.54	19.44	\$21.94
Slender Wheatgrass - San Luis	3.60	13.14	\$21.73
Muttongrass	0.18	3.72	\$8.58
Sagebrush, Mountain or Big	0.18	9.29	\$14.56
Spike Muhly	0.12	4.41	\$1.36

Sulphur Flower (or Buckwheat)	4.00	8.26	\$725.17
Totals Seed Mix	38.78	99.36	\$2,508.49

Application

Description	Cost /Acre
Broadcast seeding [DMG]	\$272.56
Total Seed Application Cost/Acre	\$272.56

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 4.0 pt/ac	4.00	ACRE	\$36.14	\$144.57
Total Mulch Materials Cost/Acre				\$144.57

Application

Description	Cost /Acre
Weed spray, hand, non-aquatic area, nox. [DMG]	\$209.61
Total Mulch Application Cost/Acre	\$209.61

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:	<u>0.7</u>	Cost /Acre:	<u>\$3,135.23</u>
Estimated Failure Rate:	<u>50%</u>	Cost /Acre*:	<u>\$2,781.05</u>
*Selected Replanting Work Items:	<u>SEEDING</u>		
Initial Job Cost:	<u>\$2,194.66</u>		
Reseeding Job Cost:	<u>\$973.37</u>		
Total Job Cost:	<u>\$3,168</u>		
Job Hours:	<u>4.00</u>		

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mobilze Dozer and Loader**Site: **Russell Gulch Reclamation**
Project

Permit Action:

ApplicationPermit/Job#: M2025003**PROJECT IDENTIFICATION**Task #: 006State: ColoradoAbbreviation: NoneDate: 4/30/2025County: GilpinFilename: M003-006User: LDSAgency or organization name: DRMS**EQUIPMENT TRANSPORT RIG COST**Shift basis: 1 per dayCost Data Source: CRG DataTruck 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 D6T XL	25.01	\$96.19	\$59.44	1	\$155.63	\$59.44	\$250.00
CAT 950H high lift	20.13	\$36.61	\$59.44	1	\$96.05	\$59.44	\$250.00

Subtotals: **\$251.68** **\$118.88** **\$500.00****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	\$40.29	1	\$40.29	\$40.29

Subtotals: **\$40.29** **\$40.29**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: ARVADA RENT-ALLS
 Total one-way travel distance: 35.00 miles
 Average Travel Speed: 50.00 mph

Total Non-Roadable Mob/Demob Cost * \$2,525.50
 ‘* two round trips with haul rig:
 Total Roadable Mob/Demob Cost ** \$56.41
 ** one round trip, no haul rig:

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.70	0.70
Return Time (Hours):	0.70	0.70
Loading Time (Hours):	1.00	NA
Unloading Time (Hours):	1.00	NA
Subtotals:	3.40	1.40

JOB TIME AND COST

Total job time: 6.80 Hours

Total job cost: \$2,582