



**Jessica Wilczek, P.E.**  
Manager of Engineering and Environmental Affairs  
Main: (970) 929-2308  
jwilczek@archrsc.com

June 28, 2024

Mr. Leigh Simmons  
Colorado Division of Reclamation, Mining and Safety  
Office of Mined Land Reclamation  
1313 Sherman Street, Room 215  
Denver, CO 80203

Re: Mountain Coal Company, LLC - West Elk Mine, CDRMS Permit No. C-1980-007: Pond and Mine Site  
Quarterly Self-Inspection Reports – 2nd Quarter 2024

Dear Mr. Simmons:

Attached are Mountain Coal Company, LLC's (MCC) Pond, Outfalls, Refuse Pile and Mine Site quarterly self-inspection reports for the 2nd Quarter 2024.

Should you have questions or require additional information, please contact me at  
(970) 929-2308.

Sincerely,

A handwritten signature in blue ink that reads "Jessica Wilczek".

Jessica Wilczek, P.E.  
Manager of Engineering and Environmental Affairs  
Mountain Coal Company, L.L.C – West Elk Mine

**Mountain Coal Company, L.L.C.**  
A subsidiary of Arch Resources, Inc.  
West Elk Mine  
5174 Highway 133  
Somerset, CO 81434  
(970) 929-2200  
archrsc.com

**Mountain Coal Company, LLC- West Elk Mine**  
**Quarterly Self Mine Site Inspection Report**  
**Somerset, Colorado Gunnison County**

4/19/2024

2nd 2024

Date

Quarter/ Year

Surface Material Storage (under C-1)

C. Hiatt

Location

Inspector

Features	Problems		Maintenance		Repairs		Comments
<b>Erosion:</b>	Yes	No	Yes	No	Yes	No	
Rills and Gullies		X		X		X	
Vegetation		X		X		X	
Other		X		X		X	
<b>Drainage:</b>	Yes	No	Yes	No	Yes	No	
Ditches and Channels		X		X		X	
Berms		X		X		X	
Linings		X		X		X	
BMPs		X		X		X	
Culverts		X		X		X	
Other		X		X		X	
<b>Structural:</b>	Yes	No	Yes	No	Yes	No	
Side slopes and Stability		X		X		X	
Cracks or Settling		X		X		X	
Seepage		X		X		X	
Other		X		X		X	
<b>Reclamation:</b>	Yes	No	Yes	No	Yes	No	
Seedbed Material		X		X		X	
Subsoil		X		X		X	
Vegetation		X		X		X	
Mulch		X		X		X	
Other		X		X		X	
<b>General Compliance &amp; Miscellaneous</b>	Yes	No	Yes	No	Yes	No	
Signs and Markers		X		X		X	
Roads		X		X		X	
Other		X		X		X	
<b>Additional Comments:</b>							
<b>Action Required or Needed:</b>							

5/15/2024  
Date  
Topsoil pile by ST 1-3  
Location

Inspector

Features	Problems		Maintenance		Repairs		Comments
Erosion:	Yes	No	Yes	No	Yes	No	
Rills and Gullies		X		X		X	
Vegetation		X		X		X	
Other		X		X		X	
Drainage:	Yes	No	Yes	No	Yes	No	
Ditches and Channels		X		X		X	
Berms		X		X		X	
Linings		X		X		X	
Temp. Structures		X		X		X	
Culverts		X		X		X	
Other		X		X		X	
Structural:	Yes	No	Yes	No	Yes	No	
Side slopes and Stability		X		X		X	
Cracks or Settling		X		X		X	
Seepage		X		X		X	
Monitoring-Visual		X		X		X	
Other		X		X		X	
Reclamation:	Yes	No	Yes	No	Yes	No	
Seedbed Material		X		X		X	
Subsoil		X		X		X	
Vegetation		X		X		X	
Mulch		X		X		X	
Other		X		X		X	
General Compliance & Miscellaneous	Yes	No	Yes	No	Yes	No	
Signs and Markers		X		X		X	
Other		X		X		X	
Additional Comments:							
Action Required or Needed:							

5/15/2024  
Date  
General Mine Site  
Location

Inspector

Features	Problems		Maintenance		Repairs		Comments
<b>Erosion:</b>	Yes	No	Yes	No	Yes	No	
Rills and Gullies		X		X		X	
Vegetation		X		X		X	
Other		X		X		X	
<b>Drainage:</b>	Yes	No	Yes	No	Yes	No	
Ditches and Channels		X		X		X	
Berms		X		X		X	
Linings		X		X		X	
BMPs		X		X		X	
Culverts		X		X		X	
Other		X		X		X	
<b>Structural:</b>	Yes	No	Yes	No	Yes	No	
Side slopes and Stability		X		X		X	
Cracks or Settling		X		X		X	
Seepage		X		X		X	
Monitoring-Survey		X		X		X	
Other		X		X		X	
<b>Reclamation:</b>	Yes	No	Yes	No	Yes	No	
Seedbed Material		X		X		X	
Subsoil		X		X		X	
Vegetation		X		X		X	
Mulch		X		X		X	
Other		X		X		X	
<b>Miscellaneous</b>	Yes	No	Yes	No	Yes	No	
Signs and Markers		X		X		X	
Spontaneous Combustion		X		X		X	
Roads		X		X		X	
Other		X		X		X	
<b>Additional Comments:</b>							
<b>Action Required or Needed:</b>							

6/28/2024  
Date  
Material Storage Bench, Topsoil Pile #5  
Location

Inspector

Features	Problems		Maintenance		Repairs		Comments
Erosion:	Yes	No	Yes	No	Yes	No	
Rills and Gullies		X		X		X	
Vegetation		X		X		X	
Other		X		X		X	
Drainage:	Yes	No	Yes	No	Yes	No	
Ditches and Channels		X		X		X	
Berms		X		X		X	
Linings		X		X		X	
BMPs		X		X		X	
Culverts		X		X		X	
Other		X		X		X	
Structural:	Yes	No	Yes	No	Yes	No	
Side slopes and Stability		X		X		X	
Cracks or Settling		X		X		X	
Seepage		X		X		X	
Other		X		X		X	
Reclamation:	Yes	No	Yes	No	Yes	No	
Seedbed Material		X		X		X	
Subsoil		X		X		X	
Vegetation		X		X		X	
Mulch		X		X		X	
Other		X		X		X	
Miscellaneous	Yes	No	Yes	No	Yes	No	
Signs and Markers		X		X		X	
Roads		X		X		X	
Other		X		X		X	
Additional Comments:							
Action Required or Needed:							

**Mountain Coal Company, LLC- West Elk Mine**  
**Quarterly Self Mine Site Inspection Report**  
**Somerset, Colorado Gunnison County**

6/28/2024  
 Date  
 RPE & RPEE  
 Location

2nd 2024  
 Quarter/Year  
 C. Hiatt  
 Inspector

Features	Problems		Maintenance		Repairs		Comments
<b>Erosion:</b>	Yes	No	Yes	No	Yes	No	
Rills and Gullies		X		X		X	
Vegetation		X		X		X	
Other		X		X		X	
<b>Drainage:</b>	Yes	No	Yes	No	Yes	No	
Ditches and Channels		X	X			X	
Berms		X		X		X	
Linings		X		X		X	
BMPs		X		X		X	
Culverts		X		X		X	
Other		X		X		X	
<b>Structural:</b>	Yes	No	Yes	No	Yes	No	
Side slopes and Stability		X		X		X	
Compaction		X		X		X	
Underdrains		X		X		X	
Cracks or Settling		X		X		X	
Seepage		X		X		X	
Monitoring-Survey		X		X		X	
Other		X		X		X	
<b>Reclamation:</b>	Yes	No	Yes	No	Yes	No	
Seedbed Material		X		X		X	
Subsoil		X		X		X	
Vegetation		X		X		X	
Mulch		X		X		X	
Other		X		X		X	
<b>Miscellaneous</b>	Yes	No	Yes	No	Yes	No	
Signs and Markers		X		X		X	
Spontaneous Combustion		X		X		X	
Roads		X		X		X	
Other		X		X		X	
<b>Additional Comments:</b>							
<b>Action Required or Needed:</b>							

6/28/2024  
Date  
Sylvester Gulch Facilities Area  
Location

Inspector

March 2021

4/22/2024  
Date  
North Soils Storage Area (NSSA)  
Location

Quarter/Year  
C. Hiatt  
Inspector

Features	Problems		Maintenance		Repairs		Comments
<b>Erosion:</b>	Yes	No	Yes	No	Yes	No	
Rills and Gullies		X		X		X	
Vegetation		X	X			X	
Other		X		X		X	
<b>Drainage:</b>	Yes	No	Yes	No	Yes	No	
Ditches and Channels		X		X		X	
Berms		X		X		X	
Linings		X		X		X	
BMPs		X		X		X	
Culverts		X		X		X	
Other		X		X		X	
<b>Structural:</b>	Yes	No	Yes	No	Yes	No	
Side slopes and Stability		X		X		X	
Cracks or Settling		X		X		X	
Seepage		X		X		X	
Other		X		X		X	
<b>Reclamation:</b>	Yes	No	Yes	No	Yes	No	
Seedbed Material		X		X		X	
Subsoil		X		X		X	
Vegetation		X		X		X	
Mulch		X		X		X	
Other		X		X		X	
<b>General Compliance &amp; Miscellaneous</b>	Yes	No	Yes	No	Yes	No	
Signs and Markers		X		X		X	
Roads		X		X		X	
Other		X		X		X	
<b>Additional Comments:</b>							
No access							
Action Required or Needed:							



**Mountain Coal Company, LLC- West Elk Mine**  
**Quarterly Self Mine Site Inspection Report**  
**Somerset, Colorado Gunnison County**

4/20/2024

2nd 2024

Date

Quarter/Year

Lower Refuse Pile (Prep Plant)

C. Hiatt

Location

Inspector

Features	Problems		Maintenance		Repairs		Comments							
<b>Erosion:</b>	Yes	No	Yes	No	Yes	No								
Rills and Gullies		X		X		X								
Vegetation		X		X		X								
Other		X		X		X								
<b>Drainage:</b>	Yes	No	Yes	No	Yes	No								
Ditches and Channels		X		X		X								
Berms		X		X		X								
Linings		X		X		X								
BMPs		X		X		X								
Culverts		X		X		X								
Other		X		X		X								
<b>Structural:</b>	Yes	No	Yes	No	Yes	No								
Side slopes and Stability		X		X		X								
Compaction		X		X		X								
Underdrains		X		X		X								
Cracks or Settling		X		X		X								
Seepage		X		X		X								
Monitoring-Survey		X		X		X								
Other		X		X		X								
<b>Reclamation:</b>	Yes	No	Yes	No	Yes	No								
Seedbed Material		X		X		X								
Subsoil		X		X		X								
Vegetation		X		X		X								
Mulch		X		X		X								
Other		X		X		X								
<b>General Compliance &amp; Miscellaneous</b>	Yes	No	Yes	No	Yes	No								
Signs and Markers		X		X		X								
Spontaneous		X		X		X								
Roads		X		X		X								
Other		X		X		X								
<b>Additional Comments:</b>														
Clean up is once BCN well project is underway.														
Action Required or Needed:														

**Mountain Coal Company, LLC- West Elk Mine**  
**Quarterly Self Mine Site Inspection Report**  
**Somerset, Colorado Gunnison County**

5/28/24/2024

2nd 2024

Date

Upper Sly Gulch Road

Location

Quarter/Year

C. Hiatt

Inspector

Features	Problems		Maintenance		Repairs		Comments
<b>Erosion:</b>	Yes	No	Yes	No	Yes	No	
Rills and Gullies		X		X		X	
Vegetation		X		X		X	
Other		X		X		X	
<b>Drainage:</b>	Yes	No	Yes	No	Yes	No	
Ditches and Channels		X		X		X	
Berms		X		X		X	
Linings		X		X		X	
BMPs		X		X		X	
Culverts		X		X		X	
Other		X		X		X	
<b>Structural:</b>	Yes	No	Yes	No	Yes	No	
Side slopes and Stability		X		X		X	
Cracks or Settling		X		X		X	
Seepage		X		X		X	
Monitoring-Survey		X		X		X	
Other		X		X		X	
<b>Reclamation:</b>	Yes	No	Yes	No	Yes	No	
Seedbed Material		X		X		X	
Subsoil		X		X		X	
Vegetation		X		X		X	
Mulch		X		X		X	
Other		X		X		X	
<b>General Compliance &amp; Miscellaneous</b>	Yes	No	Yes	No	Yes	No	
Signs and Markers		X		X		X	
Roads		X		X		X	
Other		X		X		X	
<b>Additional Comments:</b>							
No Access							
Action Required or Needed:							

6/24/2024	2nd 2024
Date	Quarter/Year
Deer Creek Shaft & Monument Dam Borrow Area	C. Hiatt
Location	Inspector

Features	Problems		Maintenance		Repairs		Comments
<b>Erosion:</b>	Yes	No	Yes	No	Yes	No	
Rills and Gullies		X		X		X	
Vegetation		X		X		X	
Other		X		X		X	
<b>Drainage:</b>	Yes	No	Yes	No	Yes	No	
Ditches and Channels		X		X		X	
Berms		X		X		X	
Linings		X		X		X	
BMPs		X		X		X	
Culverts		X		X		X	
Other		X		X		X	
<b>Structural:</b>	Yes	No	Yes	No	Yes	No	
Side slopes and Stability		X		X		X	
Cracks or Settling		X		X		X	
Seepage		X		X		X	
Monitoring-Survey		X		X		X	
Other		X		X		X	
<b>Reclamation:</b>	Yes	No	Yes	No	Yes	No	
Seedbed Material		X		X		X	
Subsoil		X		X		X	
Vegetation		X		X		X	
Mulch		X		X		X	
Other		X		X		X	
<b>Miscellaneous</b>	Yes	No	Yes	No	Yes	No	
Signs and Markers		X		X		X	
Roads		X		X		X	
Other		X		X		X	
<b>Additional Comments:</b>							
<b>Action Required or Needed:</b>							

Mountain Coal Company, LLC- West Elk Mine  
Quarterly Self Pond Inspection Report  
Somerset, Colorado Gunnison County

5/29/2024  
Date

2nd 2024  
Quarter/Year  
C. Hiatt  
Inspector

Pond ID	FW-1	SG-1	RPE West	RPE East	NSSA	Deepwell
Pond Type	Fresh Water	Sediment	Sediment	Sediment	Sediment	Fault Water
Sediment Level %	N/A	5%	<15%	<30%	0	<5%
Water Level (Approx.)	80%	75%	10%	80%	0	50%
Discharge? Y/N	N/A	N	N	N	N	N

Features	Problems?*		Maintenance?*		Repairs?*		Comments
* If Yes add comments							
<b>Erosional:</b>	Yes	No	Yes	No	Yes	No	
Rill & Gullies		X		X		X	
Inadequate Vegetation		X		X		X	
Outlet Channel Erosion		X		X		X	
Burrows		X		X		X	
Other		X		X		X	
<b>Structural:</b>							
Differential Settling		X		X		X	
Cracks and Slides		X		X		X	
Seepage		X		X		X	
Other		X		X		X	
<b>Appurtenant Structures</b>							
Defective Spillways		X		X		X	
De-Watering Device clogged		X		X		X	
Faulty Gates, Baffles, Pumps		X		X		X	
Other		X		X		X	
Additional Comments:	Water is recycled from the sediment ponds for use as dust control on roadways, as well as pumped to the CPP (as needed) and/or into the sealed area of the mine for storage and later use per MCC's adjudicated water storage right						
Action Needed:	<b>RPE East needs sediment cleaned out. Reported to Surface Superintendent. Cleaning needs to happen this spring.</b>						

Mountain Coal Company, LLC- West Elk Mine  
Quarterly Self Pond Inspection Report  
Somerset, Colorado Gunnison County

5/29/2024  
Date

2nd 2024  
Quarter/ Year  
C. Hiatt  
Inspector

Pond ID	FW-2 North	FW-2 South	MB-3	MB-4	MB-5 North	MB-5 South
Pond Type	Fresh Water	Fresh Water	Sediment	Sediment	Sediment	Sediment
Sediment Level %	N/A	N/A	<15%	<5%	<10%	<15%
Water Level (Approx.)	Full	Full	30%	45%	25%	70%
Discharge? Y/N	N/A	N/A	N	N	N	N

Features	Problems?*		Maintenance?*		Repairs?*		Comments
* If Yes add comments							
<b>Erosional:</b>	Yes	No	Yes	No	Yes	No	
Rill & Gullies		X		X		X	
Inadequate Vegetation		X		X		X	
Outlet Channel Erosion		X		X		X	
Burrows		X		X		X	
Other		X		X		X	
<b>Structural:</b>							
Differential Settling		X		X		X	
Cracks and Slides		X		X		X	
Seepage		X		X		X	
Other		X		X		X	
<b>Appurtenant Structures</b>							
Defective Spillways		X		X		X	
De-Watering Device clogged		X		X		X	
Faulty Gates, Baffles, Pumps		X		X		X	
Other		X		X		X	
<b>Additional Comments:</b>	Water is recycled from the sediment ponds for use as dust control on roadways, as well as pumped to the CPP (as needed) and/or into the sealed area of the mine for storage and later use per MCC's adjudicated water storage right						
<b>Action Needed:</b>	Cleaning needs to happen this spring.						

Mountain Coal Company, LLC- West Elk Mine  
Quarterly Self Pond Inspection Report  
Somerset, Colorado Gunnison County

---

## REFUSE PILE EXPANSION EAST CERTIFICATION

I, Jessica A. Wilczek, Colorado Registered P.E. No. 39802, hereby certify to the best of my knowledge and belief, the preparation of the Refuse Pile Expansion East (RPEE), including topsoil and subsoil salvage, underdrain and drainage ditch construction, and placement and compaction of fill lifts, was completed during the 2nd Quarter of 2024 in accordance with the approved designs for the Refuse Pile Expansion East (RPEE), see the attached compaction test results.

*Jessica Wilczek*

Jessica A. Wilczek, Colorado P.E. No. 39802



## RELATIVE COMPACTION TEST RESULTS

**PROJECT: West Elk Mine**

**PROJECT NUMBER: M24039MT**

**DATE: 5-29-24**

**LOCATION:** Somerset, CO

## ENGINEERING TECHNICIAN: SZ

**CLIENT: Mountain Coal Company**

**NUCLEAR GAUGE USED: 14**

TEST NO.	APPROXIMATE TEST LOCATION	DEPTH OR ELEVATION	PROBE DEPTH (IN)	LABORATORY PROCTOR DENSITY (PCF)	OPTIMUM MOISTURE CONTENT (%)	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	RELATIVE COMPACTION (%)	SOIL TYPE
1	RPEE North		6"	90.0	16.0	90.9	18.0	100+	Coal gob black
2	RPEE East		6"	88.0	16.5	85.3	17.3	97	Coal gob black

**REMARKS:** The test results indicate only the density and moisture content for the location and elevation tested only.

# Lambert and Associates

**PROJECT NUMBER: M24039MT**



## RELATIVE COMPACTION TEST RESULTS

**PROJECT: West Elk Mine**

**PROJECT NUMBER: M24039MT**

**DATE: 6-5-24**

**LOCATION:** Somerset, CO

## ENGINEERING TECHNICIAN: SZ

**CLIENT: Wells Excavation**

**NUCLEAR GAUGE USED: 14**

TEST NO.	APPROXIMATE TEST LOCATION	DEPTH OR ELEVATION	PROBE DEPTH (IN)	LABORATORY PROCTOR DENSITY (PCF)	OPTIMUM MOISTURE CONTENT (%)	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	RELATIVE COMPACTION (%)	SOIL TYPE
6	RPEE East		6	88.0	16.5	92.7	14.7	100+	Coal gob, black
7	RPEE East		6	88.0	16.5	94.4	12.5	100+	Coal gob, black
8	RPE Middle		8	97	15.0	100.9	13.2	100+	Coal gob, black

**REMARKS:** The test results indicate only the density and moisture content for the location and elevation tested only.

# Lambert and Associates

**PROJECT NUMBER: M24039MT**

## RELATIVE COMPACTION TEST RESULTS

**PROJECT: West Elk Mine****PROJECT NUMBER: M24039MT**

**DATE: 6-11-24**

**LOCATION:** Somerset, CO

## ENGINEERING TECHNICIAN: SZ

**CLIENT: Mountain Coal Company**

**NUCLEAR GAUGE USED: 14**

TEST NO.	APPROXIMATE TEST LOCATION	DEPTH OR ELEVATION	PROBE DEPTH (IN)	LABORATORY PROCTOR DENSITY (PCF)	OPTIMUM MOISTURE CONTENT (%)	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	RELATIVE COMPACTION (%)	SOIL TYPE
3	RPEE North		6	90.0	16	88.7	17.1	99	Coal Gob, Black
4	RPEE East		6	88.0	16.5	88.4	16.1	100	Coal Gob, Black
5	RPEE East		8	88.0	16.5	84.4	18.2	96	Coal Gob, Black

**REMARKS:** The test results indicate only the density and moisture content for the location and elevation tested only.

# Lambert and Associates

**PROJECT NUMBER: M24039MT**

## RELATIVE COMPACTION TEST RESULTS

**PROJECT: West Elk Mine****PROJECT NUMBER: M24039MT**

**DATE: 6-18-24**

**LOCATION:** Somerset, CO

## ENGINEERING TECHNICIAN: SZ

**CLIENT: Wells Excavation**

**NUCLEAR GAUGE USED: 23**

TEST NO.	APPROXIMATE TEST LOCATION	DEPTH OR ELEVATION	PROBE DEPTH (IN)	LABORATORY PROCTOR DENSITY (PCF)	OPTIMUM MOISTURE CONTENT (%)	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	RELATIVE COMPACTION (%)	SOIL TYPE
9	RPEE East		6	88.0	16.5	91.1	13.5	100+	Coal gob, black
10	RPEE Middle		6	97.0	15.0	106.5	11.9	100+	Coal gob, black
11	RPEE North		7	90.0	16.0	86.4	15.7	96	Coal gob, black

**REMARKS:** The test results indicate only the density and moisture content for the location and elevation tested only.

# Lambert and Associates

**PROJECT NUMBER: M24039MT**

## RELATIVE COMPACTION TEST RESULTS

**PROJECT:** West Elk Mine**PROJECT NUMBER: M24039MT**

**DATE:** June 25, 2024

**LOCATION:** Somerset, CO

## ENGINEERING TECHNICIAN: SZ

**CLIENT:** Mountain Coal Company

**NUCLEAR GAUGE USED: 14**

TEST NO.	APPROXIMATE TEST LOCATION	DEPTH OR ELEVATION	PROBE DEPTH (IN)	LABORATORY PROCTOR DENSITY (PCF)	OPTIMUM MOISTURE CONTENT (%)	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	RELATIVE COMPACTION (%)	SOIL TYPE
12			6	88.5	15.0	97.4	12.8	100+	Coal gob, black, RPEE Mid Top
13			6	88.5	15.0	89.8	12.3	100+	Coal gob, black, RPEE Mid Top
14			6	90.0	16.0	98.2	12.6	100+	Coal gob, black, RPEE North

**REMARKS:** The test results indicate only the density and moisture content for the location and elevation tested only.

# Lambert and Associates

**PROJECT NUMBER: M24039MT**