NorthWest Colorado Consultants, Inc.

Geotechnical / Environmental Engineering • Materials Testing

April 9, 2025

Twentymile Coal Company
Miranda Kawcak
29515 RCR #27
Oak Creek, CO 80467

Job Number: 99-3983

Subject: Quarterly Observation Report, Refuse Pile, Foidel Creek Mine, Routt County, Colorado.

Miranda,

As requested, NWCC, Inc. (NWCC) has prepared this report outlining our observations made during the first quarter of 2025 at the Refuse Pile located at Twentymile Coal Company's (TCC) Foidel Creek Mine in Routt County, Colorado. During this quarter, Timothy Travis of NWCC visited the project site on March 31, 2024 to provide the quarterly inspection/observations of the Refuse Pile.

At the time of our site visit on March 31, 2025, NWCC completed a site inspection of the existing refuse pile. Based on our observations made during this visit, it appeared that the contractor was presently stockpiling, grading and compacting refuse coal in the new Expansion Area. At the time of our site visit, the refuse coal had been placed and compacted to an elevation above the third bench situated along the east side of the stockpile.

Compaction testing in the new Expansion Area of the refuse pile was also completed on March 31, 2025. Thirteen compaction tests (#689 to #701) were taken in Expansion Area during this quarter. All of the tests taken during this quarter met the minimum compaction requirement of 90% of the maximum standard Proctor density. Copies of the compaction test results and the daily field reports are attached. It should be noted that the abbreviations given in the Nuclear Density Test Results (Proctor Data) are as follows: Maximum DD = Maximum Dry Density and OMC = Optimum Moisture Content. Both of these values have been determined in accordance with ASTM D698.

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The internal roadways in the new expansion area of the pile are in good condition. The upper haul road to Areas 2, 3 and 4 of the refuse pile was not accessible due to recent snow melt and precipitation.

A seepage area at the toe of the northeast end of the refuse pile expansion area, approximately 30 feet northwest of the outlet of the underdrain, developed in fall 2014. At the time of our observations, the seepage was surfacing at the toe of the slope and flowing into the drainage from the undrain outlet then into the existing pond east of the Refuse Pile Expansion Area. The discharge was clear, with no evidence of sediment. No signs of washout, slumps or slope instability were observed at this time. The seepage area will be monitored during future inspections and noted in our inspection reports. Photographs of the seepage area taken at the time of our inspection on March 31, 2025 are attached.

Based on our observations, the surface drainage conditions generally appeared to be adequate across the top and sides of the pile. Based on our observations, we did not observe any signs of instability, structural weakness or hazardous conditions at the refuse pile. However, our observations were limited due to snow cover.

We were advised that the wash plant had produced approximately 28,682 tons of waste coal during the month of January 2025; approximately 64,749 tons during February 2025; and approximately 127,453 tons during March 2025. It is our understanding that the fines being produced at the wash plant, which consists of approximately 10 to 20 percent of the total materials being produced, are being pumped underground into the mine.

We were previously informed by Brian Watterson of TCC that all of the original monitor wells installed in the Refuse Pile were destroyed in July 2012. Two new monitor wells were constructed in Area 1 of the Refuse Pile in December 2013. NWCC was provided monthly monitor well readings for this quarter by TCC. The water level in the western monitor well (RW#1) was measured at 57.50 feet below the existing ground surface (bgs) on January 31st at 57.60 feet bgs on February 28th and at 57.50 feet bgs on March 14th of 2025. The water level in the eastern monitor well (RW#2) was measured at 56.60 feet bgs on January 31st, at 56.70 feet bgs on February 28th and at 56.50 feet bgs on March 14th of 2024. An additional monitor well (RW#3) was constructed at the southeast end of the 1st bench in the new Expansion Area in June of 2014. The water level in the expansion area monitor well (RW#3) was dry when checked on January 31st, February 28th and March 14th of 2024.

Based on our observations, it appears that the pile is currently being constructed and maintained in general accordance with the project specifications and plans submitted under 2.05.3(8) and that the potential hazard to human life and property at the site in its present condition is minimal. This report fulfills the quarterly inspection requirements as specified by Rules 4.09.1(11)(a), 4.09.1(11)(b), 4.10.2(2)(a) and 4.10.2(2)(b).

If you have any questions regarding this report or our observations, please contact this office.

Sincerely,
NWCC, INC.,

Timothy S. Travis, P.E.
Sr. Project Engineer

Reviewed by Brian D. Len, P.E.
Principal Engineer

NORTHWEST COLORADO CONSULTANTS, INC.

Project:	Refuse Pile	**Project No.:**	99-3983	**Date:**	3/31/25
				Time:	2.0
Location:	Foidel Creek Mine	**Report No.:**	115	**Mileage:**	45
Client:	Twentymile Coal Co.			**Engr. /Tech:**	TT

Work Performed:

As requested, we visited the project site on today's date and conducted compaction test No's 689 through 701 on the fill materials being placed within the Refuse Pile.

Twentymile Coal Company crews placed and compacted processed waste coal in the Refuse Pile.

We also obtained a sample of material and returned it to our laboratory in Steamboat Springs, CO for standard checkpoint Proctor testing. The sample matched previously determined Proctor 12P for this project.

Remarks:

The material tested today generally met project specifications for compaction.

Please refer to attached sheet for results of today's testing.

Verbal Discussions:

Nick Aromando of Twentymile Coal Co. was notified of today's test results.

NUCLEAR DENSITY TEST RESULTS

Project: Refuse Pile **Project No.:** 99-3983 **Date:** 3/31/2025
Report No.: 115

Test No.	Location Northing/Easting	Depth Elev.	Proctor No.	Dry Density (pcf)	Water Content (%)	Actual Compaction	Required Compaction
689	30349.954 / 16332.893	7036.191	12	102.3	6.8	93	90
690	30211.792 / 16464.143	7034.654	12	101.7	7.3	93	90
691	30364.836 / 16800.332	7029.155	12	105.8	6.2	96	90
692	30530.854 / 16689.278	7034.244	12	101.4	6.6	92	90
693	30723.216 / 16964.213	7033.395	12	100.3	6.1	91	90
694	30625.795 / 17150.290	7027.405	12	101.3	6.7	92	90
695	30860.585 / 17272.886	7030.564	12	103.7	5.9	94	90
696	31115.728 / 17479.204	7030.010	12	101.6	6.4	93	90
697	31131.634 / 17657.067	7020.477	12	98.9	6.7	90	90
698	31025.613 / 17722.823	7017.911	12	99.4	6.5	91	90
699	31290.082 / 17766.347	7010.252	12	102.1	6.3	93	90
700	30754.744 / 17752.633	7020.436	12	100.1	5.6	91	90
701	30509.022 / 17523.433	7016.089	12	100.7	5.4	92	90

PROCTOR DATA

No.	Maximum Dry Density (pcf)	Optimum Moisture Content (%)	Relative Density Minimum Density (pcf)	Relative Density Maximum Density (pcf)	Soil Type
12	109.8	7.6			Processed Waste Coal
11	100.3	10.2			Processed Waste Coal
10	107.6	11.0			Processed Waste Coal

Comments:

BSG=	**Below Subgrade Grade**	**NWC=**	**Northwest Corner**
SG=	**Subgrade Grade**	**NEC=**	**Northeast Corner**
SBG=	**Subbase Grade**	**SWC=**	**Southwest Corner**
BSBG=	**Below Subbase Grade**	**SEC=**	**Southeast Corner**
BCG=	**Base Course Grade**	**BFG=**	**Below Footing Grade**
BBF=	**Below Bottom of Footing**	**FG=**	**Footing Grade**

March 31, 2025-Drain Outlet and Seepage Area

March 31, 2025-Seepage Area

March 31, 2025- Areas 2, 3 and 4 from Expansion Area

March 31, 2025- Expansion Area

March 31, 2025- Road to Area 2, 3 and 4

March 31, 2025- East End of Expansion Area