

June 9, 2024

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 second quarter of 2024 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 June 28, 2024 to provide the quarterly inspection/observations of the Refuse Pile.

At the time of our site visit on June 28, 2024, 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. Cover materials were being stockpiled on the third bench to be spread over the slope below the third bench

Compaction testing in the new Expansion Area of the refuse pile was also completed on June 28, 2024. Eight compaction tests (#663 to #670) 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 accessible and in good condition.

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 June 28, 2024 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.

We were advised that the wash plant had produced approximately 179,596 tons of waste coal during the month of April 2024: approximately 100,594 tons during May 2024: and approximately 114,388 tons during June 2024. 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 57.75 feet below the existing ground surface (bgs) on April 24th at 57.70 feet bgs on May 29th and at 57.90 feet bgs on June 28th of 2024. The water level in the eastern monitor well (RW#2) was measured at 56.85 feet bgs on April 24th, at 56.80 feet bgs on May 29th and at 56.90 feet bgs on June 28th 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 April 24th, May 29th and June 28th 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. 4575. P.E.

Principal Engineer

NORTHWEST COLORADO CONSULTANTS, INC.

Project:Refuse PileProject No.:99-3983Date:6/28/24Location:Foidel Creek MineReport No.:112Mileage:45Client: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 663 through 670 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:** 6/28/2024

Project No.: 99-3 Report No.: 112

Test	Location	Depth	Proctor	Dry	Water	Actual	Required
No.	Northing/Easting	Elev.	No.	Density	Content	Compaction	Compaction
				(pcf)	(%)		
663	31363.30 / 16924.76	7037.806	12	106.2	4.9	97	90
664	31194.64 / 16662.86	7040.188	12	99.1	6.8	94	90
665	31105.10 / 16347.73	7039.691	12	99.8	6.6	91	90
666	30837.38 / 16388.74	7040.164	12	100.6	6.7	92	90
667	30981.47 / 16794.21	7036.197	12	101.4	5.9	92	90
668	31261.60 / 17227.17	7032.946	12	103.7	5.2	90	90
669	31488.67 / 17254.57	7029.934	12	100.6	6.1	92	90
670	31425.57 / 17713.92	7015.66	12	101.7	5.4	93	90
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PROCTOR DATA

No.	Maximum	Optimum	Relative	Relative Density	Soil Type
	Dry	Moisture	Density	Maximum	
	Density	Content	Minimum	Density (pcf)	
	(pcf)	(%)	Density (pcf)		
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



June 28, 2024-Drain Outlet and Seepage Area



June 28, 2024-Seepage Area



June 28, 2024- Areas 2, 3 and 4 $\,$



June 28, 2024- Drain Inlet



June 28, 2024- Expansion Area



June 28, 2024- Cover Material Stockpiling