

October 11, 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 third 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 September 30, 2024 to provide the quarterly inspection/observations of the Refuse Pile.

At the time of our site visit on September 30, 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 30, 2024. Thirteen compaction tests (#671 to #683) 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.

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 111,224 tons of waste coal during the month of July 2024: approximately 123,187 tons during August 2024: and approximately 103,839 tons during September 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 57.65 feet below the existing ground surface (bgs) on July 31st at 57.75 feet bgs on August 30th and at 57.50 feet bgs on September 30th of 2024. The water level in the eastern monitor well (RW#2) was measured at 56.80 feet bgs on July 31st, at 56.90 feet bgs on August 30th and at 57.00 feet bgs on September 30th 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 July 31st, August 30th and September 30th 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.H. 25750 Principal Engineer

NORTHWEST COLORADO CONSULTANTS, INC.

Project:	Refuse Pile	Project No.:	99-3983	Date:	9/30/24
				Time:	2.5
Location:	Foidel Creek Mine	Report No.:	113	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 671 through 683 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.: Report No.: 99-3983 113

Date: 9/30/2024

Test	Location	Depth	Proctor	Dry	Water	Actual	Required
No.	Northing/Easting	Elev.	No.	Density	Content	Compaction	Compaction
				(pcf)	(%)		
671	31246.915 / 17314.219	7032.180	12	101.6	3.6	93	90
672	31181.782 / 16907.728	7034.421	12	105.1	5.4	96	90
673	31048.658 / 16513.021	7039.294	12	108.8	5.7	99	90
674	31057.408 / 16716.595	7037.789	12	103.6	5.3	94	90
675	31146.212 / 17162.191	7032.514	12	107.3	4.4	98	90
676	31059.376 / 17567.305	7022.008	12	101.5	4.6	92	90
677	30727.481 / 17407.223	7022.529	12	102.8	5.4	94	90
678	30381.459 / 17133.106	7021.103	12	101.7	4.5	93	90
679	30036.614 / 16924.007	7017.915	12	105.6	4.8	96	90
680	30476.242 / 17328.916	7019.351	12	99.7	6.1	91	90
681	30916.597 / 17302.029	7030.430	12	100.1	5.4	91	90
682	30595.538 / 17082.290	7027.503	12	99.4	6.6	91	90
683	30025.978 / 16754.410	7027.573	12	100.7	5.9	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 11 10	109.8 100.3 107.6	7.6 10.2 11.0			Processed Waste Coal Processed Waste Coal 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



September 30, 2024-Drain Outlet and Seepage Area



September 30, 2024-Seepage Area



September 30, 2024- Areas 2, 3 and 4



September 30, 2024- Expansion Area



September 30, 2024- Expansion Area



September 30, 2024- East End of Expansion Area