

January 8, 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 fourth quarter of 2023 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 December 29, 2023 to provide the quarterly inspection/observations of the Refuse Pile.

At the time of our site visit on December 29, 2023, 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 December 29, 2023. Eight compaction tests (#651 to #658) 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.

Page 2 of 3

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 at the time of our site visit due to snow.

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 December 29, 2023 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 76,611 tons of waste coal during the month of October 2023: approximately 50,805 tons during November 2023: and approximately 39,758 tons during December 2023. 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 57.15 feet below the existing ground surface (bgs) on October 25th at 57.50 feet bgs on November 30th and at 57.90 feet bgs on December 28th of 2023. The water level in the eastern monitor well (RW#2) was measured at 56.20 feet bgs on October 25th, at 56.15 feet bgs on November 30th and at 56.80 feet bgs on December 28th of 2023. An additional monitor well (RW#3) was constructed at the southeast end of the 1st bench in new Expansion Area in June of 2014. The water level in the expansion area monitor well (RW#3) was dry when checked on October 25th, November 30th and December 28th of 2023.

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 D25750, P.I

Principal Engineer 1-9-2024



December 29, 2023-Drain Outlet and Seepage Area



December 29, 2023-Seepage Area



December 29, 2023- Areas 2, 3 and 4 from Expansion Area



December 29, 2023- Expansion Area



December 29, 2023- Road to Areas 2, 3 and 4



December 29, 2023- Benches on East Side of Refuse Pile

NORTHWEST COLORADO CONSULTANTS, INC.

Project: Refuse Pile Project No.: 99-3983 Date: 12/29/23

Location: Foidel Creek Mine Report No.: 110 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 651 through 658 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 99-3983 **Date:** 12/29/2023

Project No.: Report No.: 110

Test	Location	Depth	Proctor	Dry	Water	Actual	Required
No.	Northing/Easting	Elev.	No.	Density	Content	Compaction	Compaction
				(pcf)	(%)		
651	31474.55 / 17198.06	7028.671	12	100.2	5.9	91	90
652	31311.07 / 16926.79	7032.584	12	99.3	5.6	90	90
653	31099.73 / 16603.90	7035.501	12	98.8	6.6	90	90
654	30989.60 / 16310.23	7033.477	12	98.4	7.1	90	90
655	30966.43 / 16549.80	7034.242	12	99.7	6.4	91	90
656	31024.63 / 16549.80	7029.834	12	100.6	5.9	92	90
657	31147.88 / 17476.12	7024.566	12	99.8	6.2	91	90
658	31229.52 / 17537.87	7021.951	12	101.0	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 11 10	109.8 100.3 107.6	7.6 10.2 11.0	Definity (pol)		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