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OGMCOAL - 2nd Quarter Refuse Pile / Pond Reports

From: "Galecki, Gregg" <GGalecki@archcoal.com>
To: "OGMCOAL@utah.gov" <OGMCOAL@utah.gov>, Karl Houskeeper
<karlhouskeeper@u...>
Date: 8/5/2010 2:02 PM
Subject: 2nd Quarter Refuse Pile / Pond Reports
Attachments: 2nd QTR REFUSE-PONDS.pdf

Karl,
Attached are the Sediment Pond and Refuse pile reports for the 2nd Qtr 2010.

Gregg A. Galecki
Environmental Engineer
Canyon Fuel Company, LLC
Skyline Mine
(435)448-2636

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INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE			
Permit Number	C/007/005	Report Date	August 4, 2010
Mine Name	Skyline Mines		
Company Name	Canyon Fuel Company, LLC		
Excess Spoil Pile or Refuse Pile Identification	Pile Name	Skyline Waste Rock Site	
	Pile Number	1211-UT-09-01566-01	
	MSHA Mine ID Number	42-01566	
Inspection Date	June 22, 2010		
Inspected By	Gregg Galecki / Carl Winters		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		Quarterly	
		Attachments to Report? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
Field Evaluation			
<u>No significant problems with the waste site were observed during the 2nd quarter 2010.</u>			
1. Foundation preparation, including the removal of all organic material and topsoil. No contemporaneous reclamation was performed at the site during the quarter.			
2. Placement of underdrains and protective filter systems. No underdrains are present or required at this site. Areas that are to final grade, are capped with the prescribed amount of topsoil, seeded, top-dressed with straw, then held in place with a matting material.			
3. Installation of final surface drainage systems. Existing surface is not at final contour. Therefore, final surface drainages have not yet been constructed. All surface runoff from the refuse pile is treated by the sediment pond. No water is allowed to impound on the pile. Runoff from the main access road below the sediment pond is treated by straw bale and silt fence dikes.			
4. Placement and compaction of fill materials. Approximately 120 tons of waste rock material was hauled into the pile during the quarter. No re-allocation of Waste Rock from the pile was conducted in the 2 nd quarter 2010. Waste rock deposited at the site is placed in lifts of 24-inches or less, and compacted in place using a tracked dozer and sheeps-foot roller or another method to insure stabilization at final placement.			
5. Final grading and revegetation of fill. When the waste rock is placed permanently, contemporaneous reclamation of the waste rock pile will take place as the site is backfilled. The backfill slopes are built to 1 1/2h:1v or less and seeded as described in the final reclamation plan. The seed mix specified in the Reclamation Plan is planted after the placement of topsoil.			
6. Appearances of instability, structural weakness, and other hazardous conditions.			

INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE

No obvious instability or structural weakness was noted during the 2nd quarter 2010 inspection. No signs of slumping or heating were observed. The highwall that is reappearing due to the removal of material continues to be monitored to ensure no loose coal or rock is retained on the highwall. No hazardous conditions were noted on the highwall during the inspection.

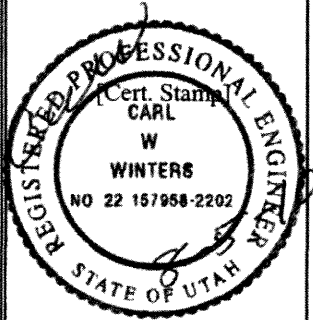
The sedimentation pond had a minor puddle of water in the northwest 1/3 of the pond. Drainage ditches reporting from the pile to the Sedimentation pond were functioning as designed.

No hazardous conditions were observed at the time of the inspection.

7. **Other Comments.** Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.

Historic records indicated the total storage capacity was approximately 334,125 tons. An application to expand the size of the refuse pile was approved February 29, 2008. A portion of the expansion area has been used for topsoil storage. Approximately 120 tons of waste rock material was added to the pile during the 2nd quarter 2010.

Certification Statement



I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself, or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: Carl W. Winters, Engineering Manager

(Full Name and Title)

Signature: *Carl W. Winters* Date: August 5, 2010

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			
Permit Number	C/007/005	Report Date	August 3, 2010
Mine Name	Skyline Mine		
Company Name	Canyon Fuel Company		
Impoundment Identification	Impoundment Name	Mine Site Sediment Pond	
	Impoundment Number	001	
	UPDES Permit Number	UT0023540	
	MSHA ID Number	NA	
IMPOUNDMENT INSPECTION			
Inspection Date	June 25, 2010		
Inspected By	Gregg Galecki		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Quarterly		
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>No signs of instability were observed. No hazardous conditions were observed during the inspection of the pond. The pond was not discharging at the time of the inspection. The pond is incised, with all the banks appearing stable. Particular attention was paid to the pond banks looking for signs of instability or structural weakness. The pond was last cleaned in the 3rd Quarter 2008.</p>			
Required for an impoundment which functions as a SEDIMENTATION POND.	<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</p> <p>Sediment Storage Capacity: 132,013 ft³ (based on 2008 survey) 60% Elevation: 8571.23 feet ASL (above sea level) 100% Elevation: 8573.50 feet ASL The elevation of the sediment within the pond at the discharge point was 10.96 feet below the surface or an elevation of 8568.64 feet. A moderate delta of sediment exists from the pond inlet to the first turbidity curtain.</p>		
	<p>3. Principle and emergency spillway elevations.</p> <p>Principal and Emergency Spillway Elevations: 8579.6 feet ASL (The outlet structure for Pond 001 serves as both the Principal and Emergency Spillways) Total volume of pond at Spillway: 295,023 ft³ Required runoff storage: 163,010 ft³ 100% Sediment storage: 132,013 ft³ 60% Sediment storage: 79,208 ft³</p>		

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT

- 4. Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on out slopes of embankments, etc.

Water level at discharge point (8579.6 ft ASL) was level with the spill point. The sediment pond discharged periodically during the quarter, ranging in flow from 0 to approximately 120 gpm. A sample of the mine discharge water, (normally) including this pond's discharge, is taken on weekly basis throughout the quarter as required by the Mine's UPDES permit. On a biweekly basis the water sample is analyzed for total iron. The frequency of analysis for Total Phosphorus has been reduced from monthly to quarterly per DWQ direction in June 2007. Weekly samples include oil and grease, total dissolved solids, total suspended solids, pH and conductivity. Flow is record by in-line flow meters.

Surface water is collected from the upper mine pad and discharged to the pond through a culvert located on the west end of the pond. The culvert is functioning as designed. The outlet structure was working as designed and appears to be in good working condition. The pond is an incised structure. Minimal vegetation exists on the banks.

A series of turbidity curtains are installed in the pond to help reduce the suspended load within the pond. The spillway was clear of debris, and functioning as designed.

- 5. Field Evaluation.** Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

The overall geometry of the pond has not changed based on both the cleaning and land survey conducted in 3rd Quarter 2008. The survey indicated portions of the pond are slightly deeper than the as-built construction. The pond discharged periodically during this quarter. The minimum water elevation was approximately 0.40 feet below the spillway structure. Based on the September 2008 survey and depth measurements, approximately 132,013 ft³ of sediment storage is available in the pond. Sediment depth levels were not collected due to thick ice. Based on the sediment elevation of 8568.60 feet, less than approximately 52,000 ft³ of sediment storage remains to fill the pond to the 60% sediment storage level.

The pond is scheduled for cleaning in 2010.

Qualification Statement

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: *Gregory A. Jalovich* Date: 8/3/10