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From: "Galecki, Gregg" <GGalecki@archcoal.com>
To: <OGMCOAL@utah.gov>
CC: <karlhouskeeper@utah.gov>
Date: 7/23/2009 9:56 AM
Subject: Refuse / Pond reports
Attachments: 2nd Qtr 2009 reports.pdf

Karl,

Attached are the 2nd Qtr 2009 Refuse Pile and Pond reports.

Gregg A. Galecki

Environmental Engineer

Skyline Mines,

Canyon Fuel Company, LLC

(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	July 17, 2009
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 10, 2009		
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			
<i>No significant problems with the waste site were observed during the 2nd quarter 2009.</i>			
1. Foundation preparation, including the removal of all organic material and topsoil.			
No contemporaneous reclamation was performed at the site during the quarter. Approximately 200 tons of waste rock hauling was conducted 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. The sediment pond was cleaned of sediment in August 2007.			
4. Placement and compaction of fill materials.			
Approximately 200 tons of waste rock material was hauled into the pile during the quarter. No re-allocation of Waste Rock from the pile is scheduled for 2009. 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 2009 inspection. No signs of slumping or heaving were observed. A possible 'bulge' on the southwest side of the pile has been monitored for the last few quarters to gauge for any possible instability. No obvious changes have been noticed. The highwall that is reappearing due to the removal of material will be monitored to ensure no loose coal or rock is retained on the highwall.

The sedimentation pond contained no water. 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. In 2008, material from the site was re-allocated and sold as high ash coal. A net total of 127,617 tons of material was removed from the site in 2008. Approximately 3,828 tons (~3%) of screened oversized material has been generated for final placement in the refuse pile.

No re-allocation of the pile is anticipated in 2009.

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: July 22, 2009

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			
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Permit Number	C/007/005	Report Date	July 20, 2009
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Mine Name	Skyline Mine		
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Company Name	Canyon Fuel Company		
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Impoundment Identification	Impoundment Name	Mine Site Sediment Pond	
	Impoundment Number	001	
	UPDES Permit Number	UT0023540	
	MSHA ID Number	NA	

IMPOUNDMENT INSPECTION			
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Inspection Date	June 10, 2009		
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Inspected By	Gregg Galecki		
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Reason for Inspection <small>(Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)</small>	Quarterly		
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I. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

No signs of instability were observed. No hazardous conditions were observed during the inspection of the pond. The level of water in the pond was level with the discharge point – intermittently discharging. The pond is incised, with all the banks appearing stable. After cleaning of the pond in 3rd Quarter 2008, the berms around the pond were re-established with either a dirt bank or 'jersey' barrier.

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 measured at 8567.85 feet. This does not represent the true bottom of the pond as the cleaning of the pond leaves a pedestal of sediment around the discharge as a security measure not to breach the pipe during cleaning. A moderate delta of sediment is being deposited at the pond inlet. The elevation of sediment is estimated to be approximately 8565.0 feet.</p>		
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	<p>3. Principle and emergency spillway elevations.</p>		
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IMPOUNDMENT INSPECTION AND CERTIFIED REPORT

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

- 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 was level at discharge point (8579.6 ft ASL) during the inspection, with water discharging intermittently. The sediment pond discharged periodically the quarter, ranging in flow from 0 to approximately 111 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. 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.

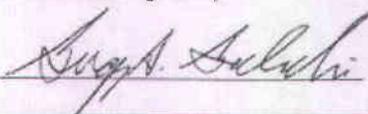
A series of turbidity curtains are installed in the pond to help reduce the suspended load within the pond.

- 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 0.10 feet below the spillway structure. Based on the September 2008 survey, approximately 132,013 ft³ of sediment storage is currently available.

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:  Date: 7/20/09

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			
Permit Number	C/007/005	Report Date	July 20, 2009
Mine Name	Skyline Mines		
Company Name	Canyon Fuel Company		
Impoundment Identification	Impoundment Name	Rail Loadout Sediment Pond	
	Impoundment Number	002	
	UPDES Permit Number	UT0023540	
	MSHA ID Number	NA	
IMPOUNDMENT INSPECTION			
Inspection Date	June 10, 2009		
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 instability of the embankment was noted during the inspection. No hazardous conditions were noted at the time of the inspection. The water level in the pond was 1.63 feet below the Spillway elevation.</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: 22,963 ft³ 60% Elevation: 7914.46 feet ASL (above sea level) 100% Elevation: 7915.40 ASL</p> <p>No significant amount of material appears to have been added to the pond since the last inspection. The current elevation of the sediment within the pond at the discharge point measured 5.55 feet below the discharge (7914.17 ft, ASL) during the inspection. This does not represent the bottom of the pond as the cleaning of the pond leaves a pedestal of sediment around the discharge as a security measure not to breach the pipe during cleaning. The current estimated level of sediment in the pond is approximately 7913.2 feet. Turbidity curtains were visible at all the inlets.</p>		
	<p>3. Principle and emergency spillway elevations.</p> <p>Principle Spillway Elevation: 7919.7 feet ASL Emergency Spillway Elevation: 7922 feet ASL Total volume of pond at Spillway: 68,701 ft³ Required runoff storage: 45,738 ft³ 100% Sediment Storage: 22,963 ft³ 60% Sediment Storage: 13,778 ft³</p>		

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.

The depth to the bottom of the pond was measured at 7,912.3 feet ASL on survey conducted on 9/23/07. This is 7.4 feet below the spill point of the principal spillway.

The water level in the pond was 1.63 feet below the spillway during the inspection. The pond discharged three (3) times during the 2nd Quarter 2009; April 15, 23, and 29, respectively. The largest flow being 23 gpm on 4/15/09. The pond embankment appears stable and without noticeable erosion. The footprint of the pond remains unchanged. Stable grasses and minor willows vegetate and stabilize the out slopes of the embankment.

The pond was completely drained and cleaned during the 3rd quarter 2007. The 2007 survey indicated the available sediment capacity is approximately 22,963 ft³.

Two turbidity curtains contain a majority of material in the upper, west side and south sides of the pond where sediment can be periodically removed. The pond currently has three (3) turbidity curtains.

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 geometry of the pond does not appear to have changed significantly with the removing of sediment in September 2007. Minor deltas are forming upstream of the turbidity curtains installed at the inlets. The volume calculations are based on a survey conducted in the Fall 2007 following the cleaning of the pond. A visual inspection indicated minimal additional sediment was accumulated during the quarter.

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: *Suzanne A. Salcedo* Date: 7/20/09

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			
Permit Number	C/007/005	Report Date	July 20, 2009
Mine Name	Skyline Mines		
Company Name	Canyon Fuel Company		
Impoundment Identification	Impoundment Name	Waste Rock Site Sediment Pond	
	Impoundment Number	003	
	UPDES Permit Number	UT0023540	
	MSHA ID Number	NA	
IMPOUNDMENT INSPECTION			
Inspection Date	June 10, 2009		
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 instability, structural weakness or other hazardous condition was noted at the site during the quarterly pond site inspection.</p>			
<p>Required for an impoundment which functions as a SEDIMENTATION POND.</p>	<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: 9939 ft³ 60% Elevation: 7857.2 feet ASL (above sea level) 100% Elevation: 7858.1 ASL Current Sediment Level Elevation: The pond was cleaned of sediment in August 2007. The pond was resurveyed to estimate the available sediment capacity following the cleaning. A bedrock shelf exists in the bottom of the pond, enabling portions of the pond to be deeper in areas where the shelf does not exist. The pond contained no water during the inspection. The sediment level in the pond is estimated at approximately 7854 feet – approximately 1-foot of sediment accumulated since the last cleanout – forming a delta at the inlet.</p>		
	<p>3. Principle and emergency spillway elevations.</p> <p>Principal and Emergency Spillways Elevation: 7864.0 feet ASL (The outlet of Pond 003 serves as both the principal and emergency spillway).</p>		

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.

This pond did not discharge during the 2nd quarter of 2009, therefore no water samples were obtained. The out slopes of the pond embankment do not appear to present any type of hazardous conditions. No instability was noted in the pond embankment. The pond embankment is stabilized with native grasses. The pond was thoroughly cleaned in August 2007, and the capacity land surveyed. Based on the survey, the pond has a sediment capacity of approximately 9939 cu-ft.

The current sediment storage capacity is based on the 2007 survey. The perimeter footprint of the pond did not change during the cleaning project, only the depth of the pond was modified.

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 pond was cleaned in August 2007. No changes or modifications from the cleaning have been noted in the geometry or perimeter footprint of the pond since the last inspection. After the August 2007 cleaning, the pond was resurveyed and determined to have approximately 9,939 ft³ of sediment storage capacity. Minimal run off was encountered during the quarter, with the pond functioning as designed.

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: Supp S. Salcedo Date: 7/20/09