



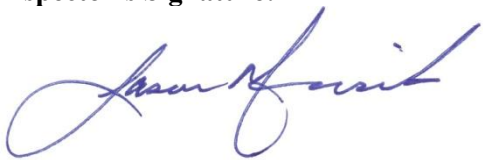
COLORADO DIVISION OF RECLAMATION, MINING AND SAFETY COAL PROGRAM INSPECTION REPORT



PERMIT INFORMATION

Permit Number: C-2009-087 Mine Name: Peabody Sage Creek Mine Operator: Peabody Sage Creek Mining LLC Operator Address: Mr B. Scott Cowman P.O. Box 250 36600 Routt County Road 27 Hayden, CO 81639	County: Routt Operation Type: Underground Permit Status: Active Ownership: Federal
Operator Representative Present: Scott Cowman	
Operator Representative Signature: (Field Issuance Only) 	

INSPECTION INFORMATION

Inspection Start Date: October 3, 2012 Inspection Start Time: 08:00 Inspection End Date: October 3, 2012 Inspection End Time: 14:30	Inspection Type: Coal Partial Inspection Inspection Reason: OSM Special Focus Weather: Clear
Joint Inspection Agency: OSM	Joint Inspection Contacts:
Post Inspection Agency: None	Post Inspection Contacts:
Inspector(s): Jason D. Musick	Inspector's Signature:  Signature Date: 10/10/2012

Inspection Topic Summary	
NOTE: Y=Inspected N=Not Inspected R=Comments Noted V=Violation Issued NA=Not Applicable	
N - Air Resource Protection N - Availability of Records N - Backfill & Grading N - Excess Spoil and Dev. Waste N - Explosives N - Fish & Wildlife R - Hydrologic Balance N - Gen. Compliance With Mine Plan N - Other N - Processing Waste	N - Roads N - Reclamation Success N - Revegetation N - Subsidence N - Slides and Other Damage N - Support Facilities On-site N - Signs and Markers N - Support Facilities Not On-site N - Special Categories Of Mining N - Topsoil

COMMENTS

HYDROLOGIC BALANCE - Rule 4.05

Drainage Control 4.05.1, 4.05.2, 4.05.3; Siltation Structures 4.05.5, 4.05.6; Discharge Structures 4.05.7, 4.05.10; Diversions 4.05.4; Effluent Limits 4.05.2; Ground Water Monitoring 4.05.13; Surface Water Monitoring 4.05.13; Drainage – Acid and Toxic Materials 4.05.8; Impoundments 4.05.6, 4.05.9; Stream Buffer Zones 4.05.18: Pond 004 is a permanent impoundment originally permitted under C-1980-005, it was holding clear water at the time of the inspection. Pond 004 utilizes an 8” smooth plastic pipe primary spillway and a rock lined emergency spillway. Approximately .1 cfs was discharging through the 12’ flume at the time of the inspection and the spillway appeared to be functioning as permitted. The emergency spillway appeared to be stable with no problems noted at the time of the inspection, with the exception of the following:

- A small erosion feature was identified at the toe of the emergency spillway. This down cutting will need to be addressed and rip-rap installed as designed.

The pond embankments appeared to be well vegetated and stable with no signs of erosion or damage at the time of the inspection.



Number of Partial Inspection this Fiscal Year: 3

Number of Complete Inspections this Fiscal Year: 1



Pond 004 Emergency Spillway



Pond 004 Emergency Spillway Erosion Feature

It was noted that the outlet of the spillway of the original design of Pond 004 contained a small amount of water in the culvert and a small amount of water was ponding at the outlet of the culvert. The inlet of the culvert was not located and may have been capped upon approval of the current spillway design. Action will be needed to ensure that the previously permitted culvert is not continuing to discharge water. In addition, the ponding water at the base of the Pond 004 embankment at the culvert will need to be addressed to ensure water does not pond at the base of the embankment in the future.

The Pecoco Pond is a permanent impoundment originally permitted under C-1980-005 and contained water at the time of the inspection. The Pecoco utilizes a corrugated steel pipe primary spillway and vegetation lined emergency spillway. The discharge at the time of the inspection was approximately $\frac{1}{4}$ full through the 24" primary spillway. The emergency spillway appeared stable with no signs of water flow. The pond embankments appeared stable and well vegetated at the time of the inspection. The discharge from the Pecoco Pond enters the Upper Sump and is impounded before discharging to Pond 002.

Number of Partial Inspection this Fiscal Year: 3

Number of Complete Inspections this Fiscal Year: 1



Pecoco Pond

The Upper Sump impoundment is a recently constructed impoundment as part of the Peabody Sage Creek Mine drainage and sediment control plan. The Upper Sump contained water at the time of the inspection. The Upper Sump utilizes a corrugated steel pipe primary spillway with a 90 Degree Riser Pipe and a trash rack and a rock lined emergency spillway. The discharge at the time of the inspection was approximately $\frac{1}{4}$ full through the 24" primary spillway. The emergency spillway appeared stable with no signs of water flow. The pond embankments appeared stable and with good initial vegetation growth along the pond side of the embankment at the time of the inspection. The following maintenance items were noted:

- Weed management will be needed in the area in and around the emergency spillway. Heavy thistle growth was observed and should be cleared.



Upper Sump

Number of Partial Inspection this Fiscal Year: 3

Number of Complete Inspections this Fiscal Year: 1



Upper Sump Emergency Spillway



Upper Sump Primary Spillway

The Portal Area Sump #1 and #2 are recently constructed non-discharging impoundments that receive run-off from only the mine portal excavation area. Run-off is impounded in the #1 pond and then flows to the #2 pond and is then pumped out.. The Portal Sump #2 contained water at the time of the inspection. The Portal Sumps utilizes a 36" corrugated steel pipe between the two sumps. These are incised sumps and do not have constructed embankments.



Portal Sump #2

The Lower Sump impoundment is a recently constructed impoundment as part of the Peabody Sage Creek Mine drainage and sediment control plan. The Lower Sump contained water at the time of the inspection. The Lower Sump utilizes a corrugated steel pipe primary spillway with a 90 Degree Riser Pipe and a trash rack and a rock lined emergency spillway. No discharge was observed through the 36" primary spillway. The emergency spillway was stable with no signs of water flow. The pond embankments appeared stable and with no vegetation growth at the time of the inspection. The embankment will require seeding.

Number of Partial Inspection this Fiscal Year: 3

Number of Complete Inspections this Fiscal Year: 1



Lower Sump

Pond 002 is a permanent impoundment originally permitted under C-1980-005 and contained water at the time of the inspection. Pond 002 utilizes a combination trapezoidal primary and emergency spillway. There was water discharging at the time of the inspection. The water level gage on the flume was unreadable; however, the mechanical meter was in place and functioning at the time of the inspection. No problems were noted.



Pond 002

Pond 003 is a permanent impoundment originally permitted under C-1980-005; it was holding clear water at the time of the inspection. Pond 003 utilizes an 18" corrugated pipe with a 6" extension primary spillway and a rock lined emergency spillway. A trickle discharge was observed at the time of the inspection and the spillway was functioning as permitted. The emergency spillway appeared to be stable with no problems noted at the time of the inspection, with the exception of the following:

- numerous wildlife burrows were observed on the embankments. These holes will need to be filled and compacted.

Number of Partial Inspection this Fiscal Year: 3

Number of Complete Inspections this Fiscal Year: 1

All permanent impoundments at the Peabody Sage Creek Mine were in compliance with Rule 4.05.9 at the time of the inspection. No sign of major erosion or damage was noted at the time of the inspection.

Number of Partial Inspection this Fiscal Year: 3

Number of Complete Inspections this Fiscal Year: 1

ENFORCEMENT ACTIONS/COMPLIANCE

No enforcement actions are pending and none were taken as a result of this inspection.
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Number of Partial Inspection this Fiscal Year: 3

Number of Complete Inspections this Fiscal Year: 1