



STATE OF
COLORADO

Musick - DNR, Jason <jason.musick@state.co.us>

Hayden Gulch Loadout 4th QTR 16 pond reports

1 message

Watterson, Brian <BWatterson@peabodyenergy.com>

Wed, Jan 25, 2017 at 12:35 PM

To: "Musick - DNR, Jason <jason.musick@state.co.us> (jason.musick@state.co.us)" <jason.musick@state.co.us>

-----Original Message-----

From: twentymile@peabodyenergy.com [mailto:twentymile@peabodyenergy.com]

Sent: Wednesday, January 25, 2017 12:51 PM

To: Watterson, Brian

Subject: Scanned from Engineering Trailer

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Hayden Gulch Terminal, LLC
Peabody Energy
PO Box 670
36600 Routt County Road 27
Hayden, CO. 81639

January 23, 2017

Janet Binns
Colorado Division of Reclamation, Mining and Safety
1313 Sherman Street
Denver, CO 80203

RE: Hayden Gulch Terminal, Permit C-92-081, 4Q16 IIR

Dear Janet:

In accordance with Rule 4.05.9(17), please find enclosed the Hayden Gulch Terminal (HGT) Impoundment Inspection Report (IIR) and Impoundment Inspection Log (IIL) for Ponds: Truck Loop Pond (001A) and Rail Loop Pond (002A).

No maintenance is required at this time. Please contact me with any comments and/or questions.

Sincerely,

A handwritten signature in blue ink, appearing to read "Brian Watterson", with a stylized flourish at the end.

Brian Watterson
Geologist

TNS/*tns*
Enclosure: HGT IIR

Mining Area	Hayden Gulch Loadout	Facility Configuration	Embankment Pond	Quarterly Impoundment Inspection Form
Date Inspected	10/3/2016	Date Last Inspected	8/1/2016	
Impoundment	Truck Loop Pond (001A)	Pond Location	SE/4 SE/4 Sec.14 T6N R88W	
NPDES ID No	COG-850008-001A	Site Location	1.5 mi. SE of Hayden, CO	
Owner's Rep	Brian Watterson	Inspector	Jason Herden	

Mark or Write in Appropriate Response:			
FEATURE	PROBLEM		COMMENTS
	YES (Above)	NO (Below)	
GENERAL			
Water Level (above or below principal spillway)		X	Dry
Outflow (gpm)		X	0
EROSION			
Rills & Gullies on Embankment		X	
Wave Erosion		X	
Spillway Erosion		X	
Burrows		X	
Other		X	
STRUCTURAL			
Differential Settling		X	
Cracks or Slides		X	
Seepage		X	
Other		X	
STRUCTURES			
Principal Spillway			
Clogged Orifice		X	
Clogged or Damaged Culvert		X	
Damaged Headgate		X	
Emergency Spillway			
Erosion		X	
Riprap		X	
Clogged or Damaged Culvert		X	
Other		X	
MAINTENANCE			
Maintenance Required		X	
Maintenance Performed		X	
Additional Comments		X	

Top of Riser Pipe = 6400 ft. (MSL)

Bottom of Headgate = 6397 ft.

Top of Sediment Storage 6395.3 ft.

Mining Area	Hayden Gulch Loadout	Facility Configuration	Embankment Pond	Quarterly Impoundment Inspection Form
Date Inspected	10/3/2016	Date Last Inspected	8/1/2016	
Impoundment	Rail Loop Pond (002A)	Pond Location	SE1/4SE1/4Sec.14T6NR88W	
NPDES ID No	COG-850008-002A	Site Location	2 mi. SE of Hayden, CO	
Owner's Rep	Brian Watterson	Inspector	Jason Herden	

Mark or Write in Appropriate Response:			
FEATURE	PROBLEM		COMMENTS
	YES (Above)	NO (Below)	
GENERAL			
Water Level (above or below principal spillway)		X	Dry
Outflow (gpm)		X	0
EROSION			
Rills & Gullies on Embankment		X	
Wave Erosion		X	
Spillway Erosion		X	
Burrows		X	
Other		X	
STRUCTURAL			
Differential Settling		X	
Cracks or Slides		X	
Seepage		X	
Other		X	
STRUCTURES			
Principal Spillway			
Clogged Orifice		NA	
Clogged or Damaged Culvert		NA	
Damaged Headgate		NA	
Emergency Spillway			
Erosion		X	
Riprap		X	
Clogged or Damaged Culvert		NA	
Other		X	
MAINTENANCE			
Maintenance Required		X	None
Maintenance Performed		X	
Additional Comments		X	

Invert of Spillway = 6383.6 ft. (MSL)

Top of Sediment Storage = 6379.5

IMPOUNDMENT INSPECTION LOG

JOB DATA

JOB NAME: PEC Hydrologic Support Services	CLIENT: Peabody	LOCATION: Routt County, CO
JOB(s): 2016-037 T1-SCC, T2-PSCM		

FLOW DATA

SITE ID	COMPANY	MINE	DATE	TIME	WATER LEVEL (FT)	OUTFLOW (GPM)	OBSERVATIONS	MAINTENANCE (Y/N)
002	Sage Creek	Sage Creek	10-3-16	13:00	0.28	92.9		N
003	Sage Creek	Sage Creek	10-3-16	12:30	0.12	8.3	Some burrows	N
004	Sage Creek	Sage Creek	10-4-16	07:30	0.13	36.1		N
Lower Sump	Sage Creek	Sage Creek	10-3-16	13:15	0.05	238.09		N
PECOCO	Sage Creek	Sage Creek	10-3-16	14:20	0.05	142		N
Portal Sump 1	Sage Creek	Sage Creek	10-3-16	13:40	0.02	4		N
Portal Sump 2	Sage Creek	Sage Creek	10-3-16	13:50	—	—		N
Spill Control 2	Sage Creek	Sage Creek	10-3-16	13:25	—	—	Dry	N
Truck Wash	Sage Creek	Sage Creek	10-3-16	12:45	—	—	Dry	N
Upper Sump	Sage Creek	Sage Creek	10-3-16	14:10	0.05	134		N
001	Seneca	Hayden Gulch	10-3-16	15:00	-2.3	—	No Flow	N
002	Seneca	Hayden Gulch	10-3-16	15:15	—	—	Dry	N
005	Seneca	Seneca II West	10-3-16	15:30	-1.6	—	No Flow	N
006	Seneca	Seneca II West	10-3-16	16:55	0.05	99.01	Big Sluff on S. side, not affecting	Y
009	Seneca	Seneca II West	10-3-16	14:00	-2.5'	—	No Flow, possible seepage	N
015	Seneca	Seneca II West	10-4-16	14:40	0.06	6		N
016	Seneca	Seneca II West	10-4-16	11:15	0.03	28.6	placed bentonite under Flume	N
017	Seneca	Seneca II West	10-4-16	11:45	0.05	14.6	sluff on N. side armour is working	N
T-1	Seneca	Seneca II West	10-3-16	17:10	-1.2	—	No Flow, Dam removed	N
T-18	Seneca	Seneca II West	10-3-16	16:20	—	—	Dry	N
T-2	Seneca	Seneca II West	10-4-16	13:10	-2.4	—	No Flow	N
T-20	Seneca	Seneca II West	10-3-16	16:05	—	—	Dry	N
T-22	Seneca	Seneca II West	10-3-16	15:45	-0.8	—	No Flow	N
T-24	Seneca	Seneca II West	10-3-16	16:35	—	—	Dry	N
T-25	Seneca	Seneca II West	10-4-16	10:45	—	—	runoff control structure	N
T-26	Seneca	Seneca II West	10-4-16	12:20	-2.5	—	No Flow	N

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10-4-16 08:30 0.09 34.43

N

SITE ID	COMPANY	MINE	DATE	TIME	WATER LEVEL (FT)	OUTFLOW (GPM)	OBSERVATIONS	MAINTENANCE (Y/N)
T-27	Seneca	Seneca II West	10-4-16	12:46	-2.6	—	No Flow	N
T-3	Seneca	Seneca II West	10-4-16	12:55	-2.3	—	No Flow	N
T-5	Seneca	Seneca II West	10-4-16	12:05	-1.9	—	No Flow	N
010	Seneca	Yoast	10-4-16	09:15	0.06	71.43	outlet is rusted through	Y
011	Seneca	Yoast	10-5-16	07:35	-1.9	—	No Flow	N
011A	Seneca	Yoast	10-4-16	09:40	-2.1	—	No Flow	N
012	Seneca	Yoast	10-3-16	14:15	0.1	67.57	erosion behind & underneath flow	Y
012A	Seneca	Yoast	10-3-16	14:00	-1.3	—	No Flow	N
013	Seneca	Yoast	10-3-16	14:30	-1.3	—	No Flow	N
014	Seneca	Yoast	10-3-16	14:45	-1.7	—	No Flow	N
ST-1	Seneca	Yoast	10-3-16	17:10	-2.4	—	No Flow	N

CLIMATIC CONDITIONS:

FIELD PERSONNEL:

FIELD PERSONNEL SIGNATURE:

NOTES

[illegible]