



**Seneca Coal Company**

Peabody Energy

PO Box 670

Hayden, CO 81639

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April 6, 2020

Robin Reilley  
Colorado Division of Reclamation, Mining and Safety  
1313 Sherman Street  
Denver, CO 80203

**RE: Yoast Mine, Permit C-94-082, First Quarter 2020 IIR**

Dear Robin:

In accordance with Rule 4.05.9(17), please find enclosed the Yoast Mine Impoundment Inspection Report (IIR) and Impoundment Inspection Log (IIL) for Ponds: Pond #010, Pond #011, Pond #011A, Pond #012, Pond #012A, Pond #013, Pond #014 and Stock Tank ST-1.

Please contact me with any comments and/or questions.

Sincerely,

Miranda Kawcak  
Environmental Manager

Enclosure: Yoast IIR

Mining Area Date Inspected Impoundment NPDES ID No Owner's Rep	Yoast Mine(Seneca Coal Co)	Facility Configuration	Cross-Valley Pond	Quarterly Impoundment Inspection Form
	3/2/2020	Date Last Inspected	10/23/2019	
	Pond #010	Pond Location	NW¼ NE¼, Sec. 8, T5N, R87W	
	CO-0000221 D.P. 010	Site Location	8.5 mi SE of Hayden, CO	
	Miranda Kawcak	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		water level 0.1 feet above spillway
Existing Embankment Freeboard ( 10.1 ft)		10.1		
Outflow (gpm)		X		2.3
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	Outlet culvert starting to rust out but still functional
Clogged or Damaged Culvert		X		
Damaged Headgate			NA	
Emergency Spillway				
Erosion			X	
Riprap			X	
Clogged or Damaged Culvert			X	
Other			X	
MAINTENACE				
Maintenance Required		X		See comment above Snow covered
Maintenance Performed			X	
Additional Comments			X	

<b>Mining Area</b>	Yeast Mine(Seneca Coal Co)	<b>Facility Configuration</b>	Cross-Vally Pond	<b>Quarterly Impoundment Inspection Form</b>
<b>Date Inspected</b>	3/2/2020	<b>Date Last Inspected</b>	10/24/2019	
<b>Impoundment</b>	Pond #011	<b>Pond Location</b>	NW¼ SW¼, Sec. 16, T5N, R87W	
<b>NPDES ID No</b>	CO-0000221 D.P.011	<b>Site Location</b>	8.5 mi SE of Hayden, CO	
<b>Owner's Rep</b>	Miranda Kawcak	<b>Inspector</b>	Jason Herden	
<b>Mark or Write in Appropriate Response:</b>				
<b>FEATURE</b>	<b>PROBLEM</b>		<b>COMMENTS</b>	
	<b>YES (Above)</b>	<b>NO (Below)</b>		
<b>GENERAL</b>				
Water Level (above or below principal spillway)		X	Water level 3.5 feet below spillway	
Existing Embankment Freeboard (5.1 ft)	8.5			
Outflow (gpm)		X		
<b>EROSION</b>				
Rills & Gullies on Embankment		X		
Wave Erosion		X		
Spillway Erosion		X		
Burrows		X		
Other		X		
<b>STRUCTURAL</b>				
Differential Settling		X		
Cracks or Slides		X		
Seepage		X		
Other		X		
<b>STRUCTURES</b>				
Principal Spillway				
Clogged Orifice		X		
Clogged or Damaged Culvert		X		
Damaged Headgate		NA		
Emergency Spillway				
Erosion		X		
Riprap		X		
Clogged or Damaged Culvert		X		
Other		X		
<b>MAINTENACE</b>				
Maintenance Required		X	Snow covered	
Maintenance Performed		X		
Additional Comments	X			

<b>Mining Area</b> <b>Date Inspected</b> <b>Impoundment</b> <b>NPDES ID No</b> <b>Owner's Rep</b>	Yoast Mine(Seneca Coal Co)	<b>Facility Configuration</b> <b>Date Last Inspected</b> <b>Pond Location</b> <b>Site Location</b> <b>Inspector</b>	Cross-Vally Pond	<b>Quarterly Impoundment Inspection Form</b>
	3/2/2020		10/23/2019	
	Pond #011A		SW¼ NW¼, Sec. 16, T5N, R87W	
	N/A		8.5 mi SE of Hayden, CO	
	Miranda Kawcak		Jason Herden	
<b>Mark or Write in Appropriate Response:</b>				
FEATURE		PROBLEM		COMMENTS
		YES (Above)	NO (Below)	
<b>GENERAL</b>				
Water Level (above or below principal spillway)			X	
Existing Embankment Freeboard (4.6 ft)		6		
Outflow (gpm)			X	
<b>EROSION</b>				
Rills & Gullies on Embankment			X	
Wave Erosion			X	
Spillway Erosion			X	
Burrows			X	
Other			X	
<b>STRUCTURAL</b>				
Differential Settling			X	
Cracks or Slides			X	
Seepage			X	
Other			X	
<b>STRUCTURES</b>				
Principal Spillway				
Clogged Orifice			X	
Clogged or Damaged Culvert			X	
Damaged Headgate			NA	
Emergency Spillway				
Erosion			X	
Riprap			X	
Clogged or Damaged Culvert			X	
Other			X	
<b>MAINTENANCE</b>				
Maintenance Required			X	No access due to winter conditions
Maintenance Performed			X	
Additional Comments		X		

Top of Sediment Storage = 2.1 feet below top of pipe

<b>Mining Area</b> <b>Date Inspected</b> <b>Impoundment</b> <b>NPDES ID No</b> <b>Owner's Rep</b>	Yoast Mine(Seneca Coal Co)	<b>Facility Configuration</b> <b>Date Last Inspected</b> <b>Pond Location</b> <b>Site Location</b> <b>Inspector</b>	Cross-Vally Pond	<b>Quarterly Impoundment Inspection Form</b>
	3/2/2020		10/23/2019	
	Pond #012		NE¼ NW¼, Sec. 19, T5N, R87W	
	CO-0000221 D.P. 012		8.5 mi SE of Hayden, CO	
	Miranda Kawcak		Jason Herden	
<b>Mark or Write in Appropriate Response:</b>				
FEATURE		PROBLEM		COMMENTS
		YES (Above)	NO (Below)	
<b>GENERAL</b>				
Water Level (above or below principal spillway)		X		Water level 0.1 feet above spillway
Existing Embankment Freeboard (9.0 ft)		9		
Outflow (gpm)		X		53.8
<b>EROSION</b>				
Rills & Gullies on Embankment			X	
Wave Erosion			X	
Spillway Erosion			X	
Burrows			X	
Other			X	
<b>STRUCTURAL</b>				
Differential Settling			X	
Cracks or Slides			X	
Seepage			X	
Other			X	
<b>STRUCTURES</b>				
Principal Spillway				
Clogged Orifice			X	
Clogged or Damaged Culvert			X	
Damaged Headgate			NA	
Emergency Spillway				
Erosion			X	
Riprap			X	
Clogged or Damaged Culvert			X	
Other			X	
<b>MAINTENANCE</b>				
Maintenance Required			X	Snow covered
Maintenance Performed			X	
Additional Comments		X		

<b>Mining Area</b> <b>Date Inspected</b> <b>Impoundment</b> <b>NPDES ID No</b> <b>Owner's Rep</b>	Yoast Mine(Seneca Coal Co)	<b>Facility Configuration</b> <b>Date Last Inspected</b> <b>Pond Location</b> <b>Site Location</b> <b>Inspector</b>	Cross-Vally Pond	<b>Quarterly Impoundment Inspection Form</b>
	3/2/2020		10/23/2019	
	Pond #012A		NE¼ NW¼, Sec. 19, T5N, R87W	
	N/A		8.5 mi SE of Hayden, CO	
	Miranda Kawcak		Jason Herden	
<b>Mark or Write in Appropriate Response:</b>				
FEATURE		PROBLEM		COMMENTS
		YES (Above)	NO (Below)	
<b>GENERAL</b>				
Water Level (above or below principal spillway)			X	Water level 1.5 feet below spillway
Existing Embankment Freeboard (4.6 ft)		6.6		
Outflow (gpm)			X	
<b>EROSION</b>				
Rills & Gullies on Embankment			X	
Wave Erosion			X	
Spillway Erosion			X	
Burrows			X	
Other			X	
<b>STRUCTURAL</b>				
Differential Settling			X	
Cracks or Slides			X	
Seepage			X	
Other			X	
<b>STRUCTURES</b>				
Principal Spillway				
Clogged Orifice			X	
Clogged or Damaged Culvert			X	
Damaged Headgate			NA	
Emergency Spillway				
Erosion			X	
Riprap			X	
Clogged or Damaged Culvert			X	
Other			X	
<b>MAINTENANCE</b>				
Maintenance Required			X	Snow Covered
Maintenance Performed			X	
Additional Comments		X		

Mining Area Date Inspected Impoundment NPDES ID No Owner's Rep	Yoast Mine(Seneca Coal Co)	Facility Configuration Date Last Inspected Pond Location Site Location Inspector	Cross-Vally Pond	Quarterly Impoundment Inspection Form
	3/2/2020		10/23/2019	
	Pond #013		SE¼ NW¼, Sec. 19, T5N, R87W	
	CO-0000221 D.P. 013		8.5 mi SE of Hayden, CO	
	Miranda Kawcak		Jason Herden	
Mark or Write in Appropriate Response:				
FEATURE	PROBLEM		COMMENTS	
	YES (Above)	NO (Below)		
GENERAL				
Water Level (above or below principal spillway)		X	water level 1.0 feet below outlet	
Existing Embankment Freeboard (4.0 ft)	5.5			
Outflow (gpm)		X		
EROSION				
Rills & Gullies on Embankment		X		
Wave Erosion		X		
Spillway Erosion		X		
Burrows		X		
Other		X		
STRUCTURAL				
Differential Settling		X	Seep below toe of dam on south side is from a native spring. Not affecting dam embankment	
Cracks or Slides		X		
Seepage		X		
Other		X		
STRUCTURES				
Principal Spillway				
Clogged Orifice		X		
Clogged or Damaged Culvert		X		
Damaged Headgate		NA		
Emergency Spillway				
Erosion		X		
Riprap		X		
Clogged or Damaged Culvert		X		
Other		X		
MAINTENACE				
Maintenance Required		X	Snow Covered	
Maintenance Performed		X		
Additional Comments	X			

<b>Mining Area</b> <b>Date Inspected</b> <b>Impoundment</b> <b>NPDES ID No</b> <b>Owner's Rep</b>	Yoast Mine(Seneca Coal Co)	<b>Facility Configuration</b> <b>Date Last Inspected</b> <b>Pond Location</b> <b>Site Location</b> <b>Inspector</b>	Cross-Vally Pond	<b>Quarterly Impoundment Inspection Form</b>
	3/2/2020		10/23/2019	
	Pond #014		NE¼ SW¼, Sec. 19, T5N, R87W	
	CO-0000221 D.P. 014		8.5 mi SE of Hayden, CO	
	Miranda Kawcak		Jason Herden	
<b>Mark or Write in Appropriate Response:</b>				
FEATURE		PROBLEM		COMMENTS
		YES (Above)	NO (Below)	
<b>GENERAL</b>				
Water Level (above or below principal spillway)			X	water level 1.8 feet below spillway
Existing Embankment Freeboard (6.8 ft)		8		
Outflow (gpm)			X	
<b>EROSION</b>				
Rills & Gullies on Embankment			X	
Wave Erosion			X	
Spillway Erosion			X	
Burrows			X	
Other			X	
<b>STRUCTURAL</b>				
Differential Settling			X	
Cracks or Slides			X	
Seepage			X	
Other			X	
<b>STRUCTURES</b>				
Principal Spillway				
Clogged Orifice			X	
Clogged or Damaged Culvert			X	
Damaged Headgate			NA	
Emergency Spillway				
Erosion			X	
Riprap			X	
Clogged or Damaged Culvert			X	
Other			X	
<b>MAINTENANCE</b>				
Maintenance Required			X	Snow Covered
Maintenance Performed			X	
Additional Comments		X		



<b>Mining Area</b>	Yeast Mine(Seneca Coal Co)	<b>Facility Configuration</b>	Stockpond	<b>Quarterly Impoundment Inspection Form</b>
<b>Date Inspected</b>	3/2/2020	<b>Date Last Inspected</b>	10/23/2019	
<b>Impoundment</b>	Stock Tank ST-1	<b>Pond Location</b>	SW¼ Sec. 20, T5N, R87W	
<b>NPDES ID No</b>	N/A	<b>Site Location</b>	8.5 mi SE of Hayden, CO	
<b>Owner's Rep</b>	Miranda Kawcak	<b>Inspector</b>	Jason Herden	
<b>Mark or Write in Appropriate Response:</b>				
<b>FEATURE</b>	<b>PROBLEM</b>		<b>COMMENTS</b>	
	<b>YES (Above)</b>	<b>NO (Below)</b>		
<b>GENERAL</b>				
Water Level (above or below principal spillway)		X		
<b>EROSION</b>				
Rills & Gullies on Embankment		X		
Wave Erosion		X		
Spillway Erosion		X		
Burrows		X		
Other		X		
<b>STRUCTURAL</b>				
Differential Settling		X		
Cracks or Slides		X		
Seepage		X		
Other		X		
<b>STRUCTURES</b>				
<b>Principal Spillway</b>				
Clogged Orifice		NA		
Clogged or Damaged Culvert		NA		
Damaged Headgate		NA		
<b>Emergency Spillway</b>				
Erosion		X		
Riprap		X		
Clogged or Damaged Culvert		NA		
Other		X		
<b>MAINTENANCE</b>				
Maintenance Required		X	No access due to winter conditions	
Maintenance Performed		X		
Additional Comments	X			

# IMPOUNDMENT INSPECTION LOG

## JOB DATA

JOB NAME: PEC Hydrologic Support Services	CLIENT: Peabody	LOCATION: Routt County, CO
JOB(s): 2018-005 T1-SCC, 2018-006 T1-PSCM		

## FLOW DATA

SITE ID	COMPANY	MINE	DATE	TIME	WATER LEVEL (FT)	OUTFLOW (GPM)	OBSERVATIONS	MAINTENANCE (Y/N)
002	Sage Creek	Sage Creek	3-23-20	08:10	0.47	77.6	snow covered, Flume leaking	Y
003	Sage Creek	Sage Creek	3-23-20	07:45	0.02	3.7	snow covered	N
004	Sage Creek	Sage Creek	3-23-20	09:00	0.08	31.7	snow covered	N
Lower Sump	Sage Creek	Sage Creek	3-23-20	08:45	0.2	167	snow covered	N
PECOCO	Sage Creek	Sage Creek	3-23-20	10:40	0.3	136	snow covered	N
Portal Sump 1	Sage Creek	Sage Creek	3-23-20	09:45	—	—	Frozen	N
Portal Sump 2	Sage Creek	Sage Creek	3-23-20	10:00	—	—	Frozen	N
Spill Control 2	Sage Creek	Sage Creek	3-23-20	09:30	—	—	snow covered	N
Truck Wash	Sage Creek	Sage Creek	3-23-20	08:35	—	—	Dry	N
Upper Sump	Sage Creek	Sage Creek	3-23-20	10:20	0.2	91	snow covered	N
001	Seneca	Hayden Gulch	3-2-20	12:00	—	—	snow covered	N
002	Seneca	Hayden Gulch	3-2-20	12:10	—	—	snow covered	N
005	Seneca	Seneca II West	3-2-20	11:40	-2.5	—	snow covered	N
006	Seneca	Seneca II West	3-2-20	09:50	0.1	48.6	snow covered	N
009	Seneca	Seneca II West	3-2-20	13:20	-3.5	—	snow covered	N
015	Seneca	Seneca II West	3-2-20	10:00	0.04	3.4	snow covered	N
016	Seneca	Seneca II West	3-2-20	09:30	0.04	53.6	snow covered	N
017	Seneca	Seneca II West	3-2-20	09:10	0.03	3.7	snow covered	N
T-1	Seneca	Seneca II West	—	—	—	—	winter	—
T-18	Seneca	Seneca II West	—	—	—	—	winter	—
T-2	Seneca	Seneca II West	—	—	—	—	winter	—
T-20	Seneca	Seneca II West	—	—	—	—	winter	—
T-22	Seneca	Seneca II West	—	—	—	—	winter	—
T-24	Seneca	Seneca II West	—	—	—	—	winter	—
T-25	Seneca	Seneca II West	—	—	—	—	winter	—
T-26	Seneca	Seneca II West	—	—	—	—	winter	—

