



STATE OF
COLORADO

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

2nd Quarter Pond Inspections

1 message

Blomquist, Miranda <MBlomquist@peabodyenergy.com>
To: "Musick - DNR, Jason" <jason.musick@state.co.us>

Mon, Aug 14, 2017 at 3:26 PM

Jason,

Attached are the 2nd quarter pond inspections for Hayden Gulch Loadout, Yoast Mine, and Seneca IIW. Let me know if you have any questions!

Thanks

Miranda Kawcak (Blomquist)

Engineering Technician – Environmental

Twentymile Coal, LLC

29515 Routt County Rd #27 Oak Creek, Colorado 80467

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3 attachments



2017 2QTR HGL Pond Insp.pdf
286K



2017 2QTR IIW Pond Insp.pdf
865K



2017 2QTR Yoast Pond Insp.pdf
525K



Seneca Property, LLC

July 26, 2017

Jason Musick
Colorado Division of Reclamation, Mining, and Safety
1313 Sherman Street, Room 215
Denver, CO 80203

RE: Seneca II W Mine, Permit C-82-057, 2Q17 IIR

Dear Jason:

In accordance with Rule 4.05.9(17), please find enclosed the Seneca II West Mine Impoundment Inspection Reports (IIR) and Impoundment Inspection Log (IIL) for Ponds:

- Pond #005, Pond #006, Pond #008, Pond #009, Pond #015, Pond #016, Pond #017

and Stock Tanks:

- Stock Tank T-1, Stock Tank T-2, Stock Tank T-3, Stock Tank T-5, Stock Tank T-18, Stock Tank T-20, Stock Tank T-22, Stock Tank T-24, Stock Tank T-25, Stock Tank T-26 and Stock Tank T-27.

Maintenance is required at Ponds: #015 (standpipe) and #016 (flume). Please contact me with any comments and/or questions.

Sincerely,

Miranda Kawcak (Blomquist)

TNS/*tns*

Mining Area	Seneca II West Mine	Facility Configuration	Cross-Vally Pond	Quarterly Impoundment Inspection Form
Date Inspected	5/1/2017	Date Last Inspected	3/14/2017	
Impoundment	Pond #005	Pond Location	NW¼ SW¼, Sec. 10, T5N, R88W	
NPDES ID No	CMLRD Permit No. C-82-057	Site Location	8 mi. S 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		Water level 0.08 feet above spillway	
Existing Embankment Freeboard (7.4 ft)	7.4			
Outflow (gpm)	X		17.22	
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		NA		
Emergency Spillway				
Erosion		X		
Riprap		X		
Clogged or Damaged Culvert		X		
Other		X		
MAINTENACE				
Maintenance Required		X		
Maintenance Performed		X		
Additional Comments		X		

Mining Area	Seneca II West Mine	Facility Configuration	Cross-Vally Pond	Quarterly Impoundment Inspection Form
Date Inspected	5/1/2017	Date Last Inspected	3/14/2017	
Impoundment	Pond #006	Pond Location	NW¼ NW¼, Sec. 22, T5N, R88W	
NPDES ID No	CO-0000221 D.P. 006	Site Location	8 mi. S 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		water level 0.15 feet above spillway	
Existing Embankment Freeboard (7.5 ft)	7.5			
Outflow (gpm)	X		118.02	
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		NA		
Emergency Spillway				
Erosion		X		
Riprap		X		
Clogged or Damaged Culvert		X		
Other		X		
MAINTENACE				
Maintenance Required		X	Big sluff on S. side above pond on hill, currently not affecting pond	
Maintenance Performed		X		
Additional Comments	X			

Mining Area	Seneca II Mine	Facility Configuration	Cross-Vally Pond	Quarterly Impoundment Inspection Form
Date Inspected	5/1/2017	Date Last Inspected	3/14/2017	
Impoundment	Pond #008	Pond Location	SEKSWX, Sec. 7, T5N, R86W	
NPDES ID No	CO-0000221 D.P.008	Site Location	7.1 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		Water Level 0.35 above spillway	
Existing Embankment Freeboard (4.7 ft)	4.7			
Outflow (gpm)	X		59.06	
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		NA		
Emergency Spillway				
Erosion		X		
Riprap		X		
Clogged or Damaged Culvert		X		
Other		X		
MAINTENACE				
Maintenance Required		X		
Maintenance Performed		X		
Additional Comments		X		

NO LONGER REQUIRED DUE TO FINAL BOND RELEASE

Mining Area	Seneca II West Mine	Facility Configuration	Cross-Vally Pond	Quarterly Impoundment Inspection Form
Date Inspected	5/1/2017	Date Last Inspected	3/14/2017	
Impoundment	Pond #009	Pond Location	SE¼ SW¼, Sec. 11, T5N, R88W	
NPDES ID No	CO-0000221 D.P. 009	Site Location	8 mi. S of Hayden, CO	
Owner's Rep	Brian Watterspm	Inspector	Chris Miller	
Mark or Write in Appropriate Response:				
FEATURE	PROBLEM		COMMENTS	
	YES (Above)	NO (Below)		
GENERAL				
Water Level (above or below principal spillway)		X	Water level 2.2 feet below top of pipe	
Existing Embankment Freeboard (6.9 ft)	8.9			
Outflow (gpm)		X		
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		NA		
Emergency Spillway				
Erosion		X		
Riprap		X		
Clogged or Damaged Culvert		X		
Other		X		
MAINTENANCE				
Maintenance Required		X		
Maintenance Performed		X		
Additional Comments		X		

Mining Area	Seneca II West Mine	Facility Configuration	Cross-Vally Pond	Quarterly Impoundment Inspection Form
Date Inspected	5/1/2017	Date Last Inspected	3/14/2017	
Impoundment	Pond #015	Pond Location	NEX SEX, Sec. 23, T5N, R88W	
NPDES ID No	CO-0000221 D.P. 015	Site Location	8 mi. S 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		water level 0.03 feet above spillway	
Existing Embankment Freeboard (4.0 ft)	4.0			
Outflow (gpm)	X		48.33	
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		NA		
Emergency Spillway				
Erosion		X		
Riprap		X		
Clogged or Damaged Culvert		X		
Other		X		
MAINTENACE				
Maintenance Required	X		Standpipe is rusted through	
Maintenance Performed		X		
Additional Comments	X			

Mining Area	Seneca II West Mine	Facility Configuration	Cross-Vally Pond	Quarterly Impoundment Inspection Form
Date Inspected	5/1/2017	Date Last Inspected	3/14/2017	
Impoundment	Pond #016	Pond Location	NEX SEX, Sec. 27, T5N, R88W	
NPDES ID No	CO-0000221 D.P. 016	Site Location	8 mi. S of Hayden, CO	
Owner's Rep	Brian Watterson	Inspector	Jason Herden	

Mark or Write in Appropriate Response:			COMMENTS
FEATURE	PROBLEM		
	YES (Above)	NO (Below)	
GENERAL			
Water Level (above or below principal spillway)	X		water level 0.1 feet above spillway
Existing Embankment Freeboard (6.8 ft)	6.8		
Outflow (gpm)	X		132.8
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		NA	
Emergency Spillway			
Erosion		X	
Riprap		X	
Clogged or Damaged Culvert		X	
Other		X	
MAINTENANCE			
Maintenance Required		X	
Maintenance Performed		X	
Additional Comments		X	

Mining Area	Seneca II West Mine	Facility Configuration	Cross-Vally Pond	Quarterly Impoundment Inspection Form
Date Inspected	5/1/2017	Date Last Inspected	3/14/2017	
Impoundment	Pond #017	Pond Location	SW¼ NE¼, Sec. 34, T5N, R88W	
NPDES ID No	CO-0000221 D.P. 017	Site Location	8 mi. S 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		water level 0.1 feet above spillway
Existing Embankment Freeboard (3.1 ft)	3.1		
Outflow (gpm)	X		
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		NA	
Emergency Spillway			
Erosion		X	
Riprap		X	
Clogged or Damaged Culvert		X	
Other		X	
MAINTENACE			
Maintenance Required		X	Sluff on North side, armour is working
Maintenance Performed		X	
Additional Comments	X		

Mining Area	Seneca II West Mine	Facility Configuration	Stockpond	Quarterly Impoundment Inspection Form
Date Inspected	5/1/2017	Date Last Inspected	3/15/2017	
Impoundment	Stock Tank T-1	Pond Location	SE1/4SW1/4, Sec 16, T5N, R88W	
NPDES ID No	N/A	Site Location	8 mi S 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	
EROSION				
Rills & Gullies on Embankment		X		
Wave Erosion		X		
Spillway Erosion		N/A		
Burrows		X		
Other		X		
STRUCTURAL				
Differential Settling		X		
Cracks or Slides		X		
Seepage		X		
Other		X		
STRUCTURES				
Principal Spillway				
Clogged Orifice		N/A		
Clogged or Damaged Culvert		N/A		
Damaged Headgate		N/A		
Emergency Spillway				
Erosion		X		
Riprap		X		
Clogged or Damaged Culvert		N/A		
Other		X		
MAINTENANCE				
Maintenance Required		X		
Maintenance Performed		X		
Additional Comments	X			

Mining Area	Seneca II West Mine	Facility Configuration	Stockpond	Quarterly Impoundment Inspection Form
Date Inspected	5/1/2017	Date Last Inspected	3/15/2017	
Impoundment	Stock Tank T-2	Pond Location	NW¼SW¼, Sec 22, T5N, R88W	
NPDES ID No	N/A	Site Location	8 mi S 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	Water level is 0.4 feet below spillway	
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		
MAINTENACE				
Maintenance Required		X		
Maintenance Performed		X		
Additional Comments	X			

Mining Area	Seneca II West Mine	Facility Configuration	Stockpond	Quarterly Impoundment Inspection Form
Date Inspected	5/1/2017	Date Last Inspected	3/15/2017	
Impoundment	Stock Tank T-3	Pond Location	NW¼SE¼, Sec 22, T5N, R88W	
NPDES ID No	N/A	Site Location	8 mi S 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	Water level is 0.9 feet below spillway	
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		
Maintenance Performed		X		
Additional Comments	X			

Mining Area	Seneca II West Mine	Facility Configuration	Stockpond	Quarterly Impoundment Inspection Form
Date Inspected	5/1/2017	Date Last Inspected	3/15/2017	
Impoundment	Stock Tank T-5	Pond Location	NEX Sec 22, T5N, R88W	
NPDES ID No	N/A	Site Location	8 mi S 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	Water level is 1.3 feet below spillway	
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		
Maintenance Performed		X		
Additional Comments	X			

Mining Area	Seneca II West Mine	Facility Configuration	Stockpond	Quarterly Impoundment Inspection Form
Date Inspected	5/1/2017	Date Last Inspected	3/15/2017	
Impoundment	Stock Tank T-18	Pond Location	NW¼NE¼, Sec 15, T5N, R88W	
NPDES ID No	N/A	Site Location	8 mi S 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	Water level is 1.0 feet below spillway	
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		
Maintenance Performed		X		
Additional Comments	X			

Mining Area	Seneca II West Mine	Facility Configuration	Stockpond	Quarterly Impoundment Inspection Form
Date Inspected	5/1/2017	Date Last Inspected	3/15/2017	
Impoundment	Stock Tank T-20	Pond Location	NW¼NE¼, Sec 15, T5N, R88W	
NPDES ID No	N/A	Site Location	8 mi S of Hayden, CO	
Owner's Rep	Jason Herden	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 is 0.7 feet below spillway	
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		
Maintenance Performed		X		
Additional Comments	X			

Mining Area	Seneca II West Mine	Facility Configuration	Stockpond	Quarterly Impoundment Inspection Form
Date Inspected	5/1/2017	Date Last Inspected	3/15/2017	
Impoundment	Stock Tank T-22	Pond Location	SE¼SW¼, Sec 10, T5N, R88W	
NPDES ID No	N/A	Site Location	8 mi S 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	Water level is 1.3 feet below spillway
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	
Maintenance Performed		X	
Additional Comments	X		

Mining Area	Seneca II West Mine	Facility Configuration	Stockpond	Quarterly Impoundment Inspection Form
Date Inspected	5/1/2017	Date Last Inspected	3/15/2017	
Impoundment	Stock Tank T-24	Pond Location	SW¼NE¼, Sec 9, T5N, R88W	
NPDES ID No	N/A	Site Location	8 mi S 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	
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		
Maintenance Performed		X		
Additional Comments	X			

Mining Area	Seneca II West Mine	Facility Configuration	Stockpond	Quarterly Impoundment Inspection Form
Date Inspected	5/1/2017	Date Last Inspected	3/15/2017	
Impoundment	Stock Tank T-25	Pond Location	SW¼NE¼, Sec 34, T5N, R88W	
NPDES ID No	N/A	Site Location	8 mi S 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)		N/A	Dry	
EROSION				
Rills & Gullies on Embankment		N/A		
Wave Erosion		N/A		
Spillway Erosion		N/A		
Burrows		N/A		
Other		N/A		
STRUCTURAL				
Differential Settling		N/A		
Cracks or Slides		N/A		
Seepage		N/A		
Other		N/A		
STRUCTURES				
Principal Spillway				
Clogged Orifice		N/A		
Clogged or Damaged Culvert		N/A		
Damaged Headgate		N/A		
Emergency Spillway				
Erosion		N/A		
Riprap		N/A		
Clogged or Damaged Culvert		N/A		
Other		N/A		
MAINTENANCE				
Maintenance Required		X	DAM REMOVED FALL 2011, REBUILT IN 2012 AS A RUNOFF CONTROL STRUCTURE (PM1-A3)	
Maintenance Performed		X		
Additional Comments	X			

Mining Area	Seneca II West Mine	Facility Configuration	Stockpond	Quarterly Impoundment Inspection Form
Date Inspected	5/1/2017	Date Last Inspected	3/15/2017	
Impoundment	Stock Tank T-26	Pond Location	NE¼NW¼, Sec 35, T5N, R88W	
NPDES ID No	N/A	Site Location	8 mi S 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	Water level is 2.0 feet below spillway	
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		
Maintenance Performed		X		
Additional Comments	X			

Mining Area	Seneca II West Mine	Facility Configuration	Stockpond	Quarterly Impoundment Inspection Form
Date Inspected	5/1/2017	Date Last Inspected	3/15/2017	
Impoundment	Stock Tank T-27	Pond Location	NW¼NW¼, Sec 35, T5N, R88W	
NPDES ID No	N/A	Site Location	8 mi S 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)		N/A	Water Level 1.4 feet below spillway	
EROSION				
Rills & Gullies on Embankment		N/A		
Wave Erosion		N/A		
Spillway Erosion		N/A		
Burrows		N/A		
Other		N/A		
STRUCTURAL				
Differential Settling		N/A		
Cracks or Slides		N/A		
Seepage		N/A		
Other		N/A		
STRUCTURES				
Principal Spillway				
Clogged Orifice		N/A		
Clogged or Damaged Culvert		N/A		
Damaged Headgate		N/A		
Emergency Spillway				
Erosion		N/A		
Riprap		N/A		
Clogged or Damaged Culvert		N/A		
Other		N/A		
MAINTENANCE				
Maintenance Required		X	REBUILT IN 2012 AS A RUNOFF CONTROL STURCURE	
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): 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	5-1-17	15:55	.40	180.4		N
003	Sage Creek	Sage Creek	5-1-17	15:30	0.10	15.10	animal burrows on Dam	N
004	Sage Creek	Sage Creek	5-1-17	16:15	0.16	93		N
Lower Sump	Sage Creek	Sage Creek	5-1-17	18:15	0.09	111.5		N
PECOCO	Sage Creek	Sage Creek	5-1-17	19:10	0.1	155		N
Portal Sump 1	Sage Creek	Sage Creek	5-1-17	10:30	0.3	10		N
Portal Sump 2	Sage Creek	Sage Creek	5-1-17	18:45	—	—		N
Spill Control 2	Sage Creek	Sage Creek	5-1-17	18:05	—	—	Dry	N
Truck Wash	Sage Creek	Sage Creek	5-1-17	17:50	—	—	Dry	N
Upper Sump	Sage Creek	Sage Creek	5-1-17	19:30	0.1	147		N
001	Seneca	Hayden Gulch	5-3-17	07:45	-1.3	—	NO Flow	N
002	Seneca	Hayden Gulch	5-3-17	08:30	—	—	Dry	N
005	Seneca	Seneca II West	5-1-17	11:30	0.08	17.23	spring @ dam, no problems	N
006	Seneca	Seneca II West	5-1-17	08:50	0.15	118.02	big slush on S side, no impact	N
009	Seneca	Seneca II West	5-1-17	12:40	-2.3	—	small leak in standpipe	N
015	Seneca	Seneca II West	5-1-17	12:30	0.03	48.33	standpipe has hole	
016	Seneca	Seneca II West	5-1-17	09:30	0.1	132.80	small leak under flume	Y
017	Seneca	Seneca II West	5-1-17	10:00	0.1	199.36		N
T-1	Seneca	Seneca II West	5-1-17	11:30	—	—	Dry	N
T-18	Seneca	Seneca II West	5-1-17	11:00	-1.0	—	NO Flow	N
T-2	Seneca	Seneca II West	5-1-17	09:05	-1.4	—	NO Flow	N
T-20	Seneca	Seneca II West	5-1-17	11:15	-1.7	—	NO Flow	N
T-22	Seneca	Seneca II West	5-1-17	11:40	-1.3	—	NO Flow	N
T-24	Seneca	Seneca II West	5-1-17	11:55	—	—	Dry	N
T-25	Seneca	Seneca II West	5-1-17	09:50	—	—	Dry	N
T-26	Seneca	Seneca II West	5-1-17	10:30	-2.0	—		N

008

5-1-17 17:30 0.35 59.06 Pipe slightly sticking up N

CLIMATIC CONDITIONS: 37°F - 55°F, wind calm - 22 MPH variable, clear - mostly cloudy	
FIELD PERSONNEL:	FIELD PERSONNEL SIGNATURE:

[illegible]