



Seneca II West Mine
29515 RCR 27
Oak Creek, CO 80467

October 20, 2019

Robin Reilley
Colorado Division of Reclamation, Mining and Safety
1313 Sherman St., Room 215
Denver, CO 80203

RE: 3rd Quarter and Annual Pond Inspections – Seneca IIW Mine (C 1982-057)

Ms. Reilley:

Enclosed are the 3rd quarter 2019 and Annual pond inspection reports for the Seneca IIW Mine. Nicholas Aromando (P.E.) accompanied on the inspection and has provided a Professional Engineer's Statement on the following page of this letter to accompany the inspection reports. Please contact me if there are any questions or if you need any additional information.

Best Regards,

A handwritten signature in blue ink that reads "Miranda Kawcak".

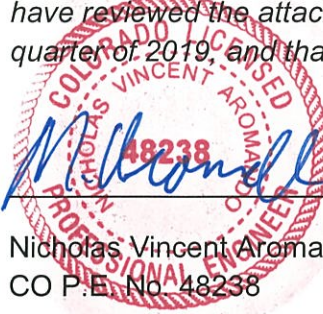
Miranda Kawcak
Environmental Manager
Peabody, Colorado Operations

Attachments:

Professional Engineer Certification (Nicholas Aromando, P.E.)
Inspection Reports

CERTIFICATION

I, Nicholas V. Aromando, a registered engineer in the State of Colorado do hereby certify that I have reviewed the attached Seneca II West Mine Sediment Pond Reports covering the third quarter of 2019, and that they are true and correct to the best of my knowledge and belief.



Nicholas Vincent Aromando
CO P.E. No. 48238

10/20/19

Date

Quarterly Impoundment Inspection Form

Mining Area		Seneca II West Mine		Facility Configuration		Cross-Vally Pond	
Date Inspected	Impoundment	NPDES ID No	Owner's Rep	Date Last Inspected	Pond Location	Site Location	Inspector
9/19/2019	Pond #005	CMLRD Permit No. C-82-057	Miranda Kawcak	6/10/2019	NW¼ SW¼, Sec. 10, T5N, R88W	8 mi. S of Hayden, CO	Nicholas Aromando
Mark or Write in Appropriate Response:							
FEATURE				PROBLEM		COMMENTS	
				YES (Above)	NO (Below)		
GENERAL							
Water Level (above or below principal spillway)				8.4		X	
Existing Embankment Freeboard (7.4 ft)							
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	
						Spring below dam, no impact to pond, continue to monitor	

Quarterly Impoundment Inspection Form

Mining Area	Seneca II West Mine	Facility Configuration	Cross-Vally Pond
Date Inspected	9/19/2019	Date Last Inspected	6/10/2019
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	Miranda Kawcak	Inspector	Nicholas Aromando
Mark or Write in Appropriate Response:			
FEATURE		PROBLEM	
		YES (Above)	NO (Below)
GENERAL			
Water Level (above or below principal spillway)		X	
Existing Embankment Freeboard (7.5 ft)		7.5	
Outflow (gpm)		X	~75gpm
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	
Big sluff on S. side above pond on hill, currently not affecting pond			

Quarterly Impoundment Inspection Form

Mining Area	Seneca II West Mine	Facility Configuration	Cross-Vally Pond
Date Inspected	9/19/2019	Date Last Inspected	6/10/2019
Impoundment	Pond #009	Pond Location	SE 1/4 SW 1/4, Sec. 11, T5N, R88W
NPDES ID No	CO-0000221.D.P. 009	Site Location	8 mi. S of Hayden, CO
Owner's Rep	Miranda Kawcak	Inspector	Nicholas Aromando
Mark or Write in Appropriate Response:			
FEATURE		PROBLEM	
		YES (Above)	NO (Below)
GENERAL			
Water Level (above or below principal spillway)			X
Existing Embankment Freeboard (6.9 ft)		10.4	
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

Water level 3.5 feet below top of pipe

0

Quarterly Impoundment Inspection Form

Mining Area		Facility Configuration		Cross-Vally Pond	
Date Inspected	Seneca II West Mine	Date Last Inspected			
Impoundment	9/19/2019	Pond Location			6/10/2019
NPDES ID No	Pond #015	Site Location			NE 1/4 Sec. 23, T5N, R88W
Owner's Rep	CO-00002221 D.P. 015	Inspector			8 mi. S of Hayden, CO
	Miranda Kawcak				Nicholas Aromando
FEATURE			Mark or Write in Appropriate Response:		
PROBLEM			COMMENTS		
YES (Above)			NO (Below)		
GENERAL					
Water Level (above or below principal spillway)			X		
Existing Embankment Freeboard (4.0 ft)			4.0		
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		

Quarterly Impoundment Inspection Form

Mining Area Date Inspected Impoundment NPDES ID No Owner's Rep		Seneca II West Mine 9/19/2019 Pond #016 CO-00002221 D.P. 016 Miranda Kawcak		Facility Configuration Date Last Inspected Pond Location Site Location Inspector		Cross-Vally Pond 6/10/2019 NEX SE¼, Sec. 27, T5N, R88W 8 mi. S of Hayden, CO Nicholas Aromando	
Mark or Write in Appropriate Response:						COMMENTS	
FEATURE				PROBLEM			
				YES (Above)		NO (Below)	
GENERAL							
Water Level (above or below principal spillway)				X			
Existing Embankment Freeboard (6.8 ft)				6.8			
Outflow (gpm)				X		~75 gpm	
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	
						Flume bentonited in July	

Quarterly Impoundment Inspection Form

Mining Area		Facility Configuration		Cross-Vally Pond	
Date Inspected	Seneca II West Mine	Date Last Inspected			
9/19/2019					6/10/2019
Impoundment		Pond Location			
Pond #017					SW 1/4 NE 1/4, Sec. 34, T5N, R88W
NPDES ID No		Site Location			
CO-0000221 D.P. 017					8 mi. S of Hayden, CO
Owner's Rep		Inspector			
Miranda Kawcak					Nicholas Aromando
Mark or Write in Appropriate Response:					
FEATURE		PROBLEM		COMMENTS	
		YES (Above)	NO (Below)		
GENERAL					
Water Level (above or below principal spillway)		X			
Existing Embankment Freeboard (3.1 ft)		3.1			
Outflow (gpm)		X		~5 gpm	
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	Flume bentonited in July	
Maintenance Performed			X		
Additional Comments		X			

Quarterly Impoundment Inspection Form

Mining Area		Seneca II West Mine		Facility Configuration		Stockpond	
Date Inspected		9/19/2019		Date Last Inspected		6/13/2019	
Impoundment		T-2		Pond Location		NW1/4SW1/4, Sec 22, T5N, R88W	
NPDES ID No		N/A		Site Location		8 mi S of Hayden, CO	
Owner's Rep		Miranda Kawcak		Inspector		Nicholas Aromando	
Mark or Write in Appropriate Response:							
FEATURE				PROBLEM		COMMENTS	
				YES (Above)		NO (Below)	
GENERAL							
Water Level (above or below principal spillway)						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				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			

Quarterly Impoundment Inspection Form

Mining Area	Seneca II West Mine	Facility Configuration	Stockpond
Date Inspected	9/19/2019	Date Last Inspected	6/13/2019
Impoundment	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	Miranda Kawcak	Inspector	Nicholas Aromando
Mark or Write in Appropriate Response:			
FEATURE		PROBLEM	
		YES (Above)	NO (Below)
COMMENTS			
GENERAL			
Water Level (above or below principal spillway)			
EROSION			
Rills & Gullies on Embankment			
Wave Erosion			
Spillway Erosion			
Burrows			
Other			
STRUCTURAL			
Differential Settling			
Cracks or Slides			
Seepage			
Other			
STRUCTURES			
Principal Spillway			
Clogged Orifice			
Clogged or Damaged Culvert			
Damaged Headgate			
Emergency Spillway			
Erosion			
Riprap			
Clogged or Damaged Culvert			
Other			
MAINTENANCE			
Maintenance Required			
Maintenance Performed			
Additional Comments			

Quarterly Impoundment Inspection Form

Mining Area	Seneca II West Mine	Facility Configuration	Stockpond
Date Inspected	9/19/2019	Date Last Inspected	6/13/2019
Impoundment	T-5	Pond Location	NE 1/4 Sec 22, T5N, R88W
NPDES ID No	N/A	Site Location	8 mi S of Hayden, CO
Owner's Rep	Miranda Kawcak	Inspector	Nicholas Aromando
Mark or Write in Appropriate Response:			
FEATURE		PROBLEM	
		YES (Above)	NO (Below)
		COMMENTS	
GENERAL			
Water Level (above or below principal spillway)			
			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			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

Quarterly Impoundment Inspection Form

Mining Area		Seneca II West Mine		Stockpond	
Date Inspected		9/19/2019		6/13/2019	
Impoundment		T-18		NW1/4NE1/4, Sec 15, T5N, R88W	
NPDES ID No		N/A		8 mi S of Hayden, CO	
Owner's Rep		Miranda Kawcak		Inspector	
				Nicholas Aromando	
Mark or Write in Appropriate Response:					
FEATURE		PROBLEM		COMMENTS	
		YES (Above)		NO (Below)	
GENERAL					
Water Level (above or below principal spillway)				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				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	

Quarterly Impoundment Inspection Form

Mining Area		Seneca II West Mine		Facility Configuration		Stockpond	
Date Inspected	Impoundment	NPDES ID No	Owner's Rep	Date Last Inspected	Pond Location	Site Location	Inspector
9/19/2019	T-20	N/A	Miranda Kawcak	6/13/2019	NW1/4NE1/4, Sec 15, T5N, R88W	8 mi S of Hayden, CO	Nicholas Aromando
Mark or Write in Appropriate Response:							
FEATURE				PROBLEM		COMMENTS	
				YES (Above)	NO (Below)		
GENERAL							
Water Level (above or below principal spillway)						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						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	

Quarterly Impoundment Inspection Form

Mining Area		Facility Configuration		Stockpond	
Date Inspected	Seneca II West Mine	Date Last Inspected		6/13/2019	
Impoundment	T-22	Pond Location	SE 1/4 SW 1/4, Sec 10, T5N, R88W		
NPDES ID No	N/A	Site Location	8 mi S of Hayden, CO		
Owner's Rep	Miranda Kawcak	Inspector	Nicholas Aromando		
Mark or Write in Appropriate Response:					
FEATURE		PROBLEM		COMMENTS	
		YES (Above)	NO (Below)		
GENERAL					
Water Level (above or below principal spillway)				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				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	

Quarterly Impoundment Inspection Form

Mining Area	Seneca II West Mine	Facility Configuration	Stockpond
Date Inspected	9/19/2019	Date Last Inspected	6/13/2019
Impoundment	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	Miranda Kawcak	Inspector	Nicholas Aromando
Mark or Write in Appropriate Response:			
FEATURE		PROBLEM	
		YES (Above)	NO (Below)
COMMENTS			
GENERAL			
Water Level (above or below principal spillway)			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			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

Quarterly Impoundment Inspection Form

Mining Area		Facility Configuration		Stockpond	
Date Inspected	Seneca II West Mine	Date Last Inspected			
Impoundment NPDES ID No	9/19/2019	Pond Location	T-25	6/13/2019	
Owner's Rep	N/A	Site Location	8 mi S of Hayden, CO	SW¼NE¼, Sec 34, T5N, R88W	
	Miranda Kawcak	Inspector	Nicholas Aromando		
Mark or Write in Appropriate Response:					
FEATURE		PROBLEM		COMMENTS	
		YES (Above)	NO (Below)		
GENERAL					
Water Level (above or below principal spillway)				N/A	
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	
Maintenance Performed				X	
Additional Comments		X			
				DAM REMOVED FALL 2011, REBUILT IN 2012 AS A RUNOFF CONTROL STURCURE (PM1-A3)	

Quarterly Impoundment Inspection Form

Mining Area	Seneca II West Mine	Facility Configuration		Stockpond
Date Inspected	9/19/2019	Date Last Inspected	6/13/2019	
Impoundment	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	Miranda Kawcak	Inspector	Nicholas Aromando	
Mark or Write in Appropriate Response:				
FEATURE		PROBLEM		COMMENTS
		YES (Above)	NO (Below)	
GENERAL				
Water Level (above or below principal spillway)			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			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	

Quarterly Impoundment Inspection Form

Mining Area		Facility Configuration		Stockpond	
Date Inspected	Seneca II West Mine	Date Last Inspected			
Impoundment	9/19/2019	Pond Location	T-27	NW¼NNW¼, Sec 35, T5N, R88W	6/13/2019
NPDES ID No	N/A	Site Location	N/A	8 mi S of Hayden, CO	
Owner's Rep	Miranda Kawcak	Inspector		Nicholas Aromando	
Mark or Write in Appropriate Response:					
FEATURE		PROBLEM		COMMENTS	
		YES (Above)	NO (Below)		
GENERAL					
Water Level (above or below principal spillway)				N/A	
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	
Maintenance Performed				X	
Additional Comments		X			
REBUILT IN 2012 AS A RUNOFF CONTROL STRUCTURE					