



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

October 16, 2021

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 2021 and Annual pond inspection reports for the Seneca IIW Mine. I personally inspected each pond and have 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,

Miranda Kawcak
Environmental Manager
Peabody, Colorado Operations

Attachments:

Professional Engineer Certification (Miranda Lynn Kawcak, P.E.)
Inspection Reports

CERTIFICATION

I, Miranda Lynn Kawcak 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 2021, and that they are true and correct to the best of my knowledge and belief.

Miranda Lynn Kawcak
CO P.E. No. 59419



Date

Mining Area Date Inspected Impoundment NPDES ID No Owner's Rep	Seneca II West Mine	Facility Configuration Date Last Inspected Pond Location Site Location Inspector	Cross-Vally Pond	Quarterly Impoundment Inspection Form
	Pond #005		NW¼ SW¼, Sec. 10, T5N, R88W	
	CMLRD Permit No. C-82-057		8 mi. S of Hayden, CO	
	Miranda Kawcak			
Mark or Write in Appropriate Response:				
FEATURE		PROBLEM		COMMENTS
		YES (Above)	NO (Below)	
GENERAL				
Water Level (above or below principal spillway)				
Existing Embankment Freeboard (7.4 ft)				
Outflow (gpm)				
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				

Phase III Released
NO INSPECTION REQUIRED

Mining Area Date Inspected Impoundment NPDES ID No Owner's Rep	Seneca II West Mine	Facility Configuration Date Last Inspected Pond Location Site Location Inspector	Cross-Vally Pond	Quarterly Impoundment Inspection Form
	9/23/2021		6/14/2021	
	Pond #006		NW¼ NW¼, Sec. 22, T5N, R88W	
	CO-0000221 D.P. 006		8 mi. S of Hayden, CO	
	Miranda Kawcak		Miranda Kawcak	

Mark or Write in Appropriate Response:			
FEATURE	PROBLEM		COMMENTS
	YES (Above)	NO (Below)	
GENERAL			
Water Level (above or below principal spillway)	X		~30 GPM
Existing Embankment Freeboard (7.5 ft)	7.5		
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	Big sluff on S. side above pond on hill, currently not affecting pond
Maintenance Performed		X	
Additional Comments	X		

Mining Area Date Inspected Impoundment NPDES ID No Owner's Rep	Seneca II West Mine	Facility Configuration Date Last Inspected Pond Location Site Location Inspector	Cross-Vally Pond	Quarterly Impoundment Inspection Form
	Pond #009		SE¼ SW¼, Sec. 11, T5N, R88W	
	CO-0000221 D.P. 009		8 mi. S of Hayden, CO	
	Miranda Kawcak			

Mark or Write in Appropriate Response:			
FEATURE	PROBLEM		COMMENTS
	YES (Above)	NO (Below)	
GENERAL			
Water Level (above or below principal spillway)			
Existing Embankment Freeboard (6.9 ft)			
Outflow (gpm)			
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			
MAINTENACE			
Maintenance Required			
Maintenance Performed			
Additional Comments			

Mining Area Date Inspected Impoundment NPDES ID No Owner's Rep	Seneca II West Mine	Facility Configuration Date Last Inspected Pond Location Site Location Inspector	Cross-Vally Pond	Quarterly Impoundment Inspection Form
	9/23/2021		6/14/2021	
	Pond #015		NE¼ SE¼, Sec. 23, T5N, R88W	
	CO-0000221 D.P. 015		8 mi. S of Hayden, CO	
	Miranda Kawcak		Miranda Kawcak	
Mark or Write in Appropriate Response:				
FEATURE	PROBLEM		COMMENTS	
	YES (Above)	NO (Below)		
GENERAL				
Water Level (above or below principal spillway)		X	0 GPM	
Existing Embankment Freeboard (4.0 ft)	4.3 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		
MAINTENACE				
Maintenance Required		X		
Maintenance Performed		X		
Additional Comments		X		

Mining Area Date Inspected Impoundment NPDES ID No Owner's Rep	Seneca II West Mine	Facility Configuration Date Last Inspected Pond Location Site Location Inspector	Cross-Vally Pond	Quarterly Impoundment Inspection Form
	9/23/2021		6/14/2021	
	Pond #016		NE¼ SE¼, Sec. 27, T5N, R88W	
	CO-0000221 D.P. 016		8 mi. S of Hayden, CO	
	Miranda Kawcak		Miranda Kawcak	
Mark or Write in Appropriate Response:				
FEATURE		PROBLEM		COMMENTS
		YES (Above)	NO (Below)	
GENERAL				
Water Level (above or below principal spillway)		X		~20 gpm
Existing Embankment Freeboard (6.8 ft)		6.8		
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	
Maintenance Performed			X	
Additional Comments			X	

Mining Area Date Inspected Impoundment NPDES ID No Owner's Rep	Seneca II West Mine	Facility Configuration Date Last Inspected Pond Location Site Location Inspector	Cross-Vally Pond	Quarterly Impoundment Inspection Form
	9/23/2021		6/14/2021	
	Pond #017		SW¼ NE¼, Sec. 34, T5N, R88W	
	CO-0000221 D.P. 017		8 mi. S of Hayden, CO	
	Miranda Kawcak		Miranda Kawcak	
Mark or Write in Appropriate Response:				
FEATURE		PROBLEM		COMMENTS
		YES (Above)	NO (Below)	
GENERAL				
Water Level (above or below principal spillway)			X	0 GPM
Existing Embankment Freeboard (3.1 ft)		3.5		
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 Date Inspected Impoundment NPDES ID No Owner's Rep	Seneca II West Mine	Facility Configuration Date Last Inspected Pond Location Site Location Inspector	Stockpond	Quarterly Impoundment Inspection Form
	T-1		SE¼SW¼, Sec 16, T5N, R88W	
	N/A		8 mi S of Hayden, CO	
	Miranda Kawcak			
Mark or Write in Appropriate Response:				
FEATURE		PROBLEM		COMMENTS
		YES (Above)	NO (Below)	
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				DAM REMOVED SPRING 2012, ROCK IN CHANNEL NOW.
Maintenance Performed				
Additional Comments				

Phase III Released
NO INSPECTION REQUIRED

Mining Area Date Inspected Impoundment NPDES ID No Owner's Rep	Seneca II West Mine	Facility Configuration Date Last Inspected Pond Location Site Location Inspector	Stockpond	Quarterly Impoundment Inspection Form
	9/23/2021		6/17/2021	
	T-2		NW¼SW¼, Sec 22, T5N, R88W	
	N/A		8 mi S of Hayden, CO	
	Miranda Kawcak		Miranda Kawcak	
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 Date Inspected Impoundment NPDES ID No Owner's Rep	Seneca II West Mine	Facility Configuration Date Last Inspected Pond Location Site Location Inspector	Stockpond	Quarterly Impoundment Inspection Form
	9/23/2021		6/17/2021	
	T-3		NW¼SE¼, Sec 22, T5N, R88W	
	N/A		8 mi S of Hayden, CO	
	Miranda Kawcak		Miranda Kawcak	

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 Date Inspected Impoundment NPDES ID No Owner's Rep	Seneca II West Mine	Facility Configuration Date Last Inspected Pond Location Site Location Inspector	Stockpond	Quarterly Impoundment Inspection Form
	T-5		NE¼ Sec 22, T5N, R88W	
	N/A		8 mi S of Hayden, CO	
	Miranda Kawcak			
Mark or Write in Appropriate Response:				
FEATURE	PROBLEM		COMMENTS	
	YES (Above)	NO (Below)		
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				

Mining Area Date Inspected Impoundment NPDES ID No Owner's Rep	Seneca II West Mine	Facility Configuration Date Last Inspected Pond Location Site Location Inspector	Stockpond	Quarterly Impoundment Inspection Form
	T-18		NW¼NE¼, Sec 15, T5N, R88W	
	N/A		8 mi S of Hayden, CO	
	Miranda Kawcak			
Mark or Write in Appropriate Response:				
FEATURE	PROBLEM		COMMENTS	
	YES (Above)	NO (Below)		
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				

Phase III Released
NO INSPECTION REQUIRED

Mining Area Date Inspected Impoundment NPDES ID No Owner's Rep	Seneca II West Mine	Facility Configuration Date Last Inspected Pond Location Site Location Inspector	Stockpond	Quarterly Impoundment Inspection Form
	T-20		NW¼NE¼, Sec 15, T5N, R88W	
	N/A		8 mi S of Hayden, CO	
	Miranda Kawcak			
Mark or Write in Appropriate Response:				
FEATURE	PROBLEM		COMMENTS	
	YES (Above)	NO (Below)		
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				

Phase III Released
NO INSPECTION REQUIRED

Mining Area Date Inspected Impoundment NPDES ID No Owner's Rep	Seneca II West Mine	Facility Configuration Date Last Inspected Pond Location Site Location Inspector	Stockpond	Quarterly Impoundment Inspection Form
	T-22		SE¼SW¼, Sec 10, T5N, R88W	
	N/A		8 mi S of Hayden, CO	
	Miranda Kawcak			
Mark or Write in Appropriate Response:				
FEATURE		PROBLEM		COMMENTS
		YES (Above)	NO (Below)	
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				

Phase III Released
NO INSPECTION REQUIRED

Mining Area Date Inspected Impoundment NPDES ID No Owner's Rep	Seneca II West Mine	Facility Configuration Date Last Inspected Pond Location Site Location Inspector	Stockpond	Quarterly Impoundment Inspection Form
	T-24		SW¼NE¼, Sec 9, T5N, R88W	
	N/A		8 mi S of Hayden, CO	
	Miranda Kawcak			
Mark or Write in Appropriate Response:				
FEATURE		PROBLEM		COMMENTS
		YES (Above)	NO (Below)	
GENERAL				
Water Level (above or below principal spillway)				Dry
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				


Phase III Released
NO INSPECTION REQUIRED

Mining Area	Seneca II West Mine	Facility Configuration	Stockpond	Quarterly Impoundment Inspection Form
Date Inspected		Date Last Inspected		
Impoundment	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	Miranda Kawcak	Inspector		
Mark or Write in Appropriate Response:				
FEATURE	PROBLEM		COMMENTS	
	YES (Above)	NO (Below)		
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			DAM REMOVED FALL 2011, REBUILT IN 2012 AS A RUNOFF CONTROL STURCURE (PM1-A3)	
Maintenance Performed				
Additional Comments				

Phase III Released
NO INSPECTION REQUIRED

Mining Area Date Inspected Impoundment NPDES ID No Owner's Rep	Seneca II West Mine	Facility Configuration Date Last Inspected Pond Location Site Location Inspector	Stockpond	Quarterly Impoundment Inspection Form
	T-26		NE¼NW¼, Sec 35, T5N, R88W	
	N/A		8 mi S of Hayden, CO	
	Miranda Kawcak			
Mark or Write in Appropriate Response:				
FEATURE	PROBLEM		COMMENTS	
	YES (Above)	NO (Below)		
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				

Phase III Released
 NO INSPECTION REQUIRED

Mining Area Date Inspected Impoundment NPDES ID No Owner's Rep	Seneca II West Mine	Facility Configuration Date Last Inspected Pond Location Site Location Inspector	Stockpond	Quarterly Impoundment Inspection Form
	T-27		NW¼NW¼, Sec 35, T5N, R88W	
	N/A		8 mi S of Hayden, CO	
	Miranda Kawcak			
Mark or Write in Appropriate Response:				
FEATURE		PROBLEM		COMMENTS
		YES (Above)	NO (Below)	
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				REBUILT IN 2012 AS A RUNOFF CONTROL STRUCTURE
Maintenance Performed				
Additional Comments				