

October 8, 2020

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 Yoast Mine (C 1994-082)

Ms. Reilley:

Enclosed are the 3<sup>rd</sup> quarter 2020 and Annual pond inspection reports for the Seneca Yoast Mine. Jenna Spencer (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,

Miranda Kawcak

**Environmental Manager** 

Peabody, Colorado Operations

Miranda Kawenh

Attachments:

Professional Engineer Certification (Jenna Spencer, P.E.) Inspection Reports

## **CERTIFICATION**

I, Jenna Spencer, a registered engineer in the State of Colorado do hereby certify that I have reviewed the attached Seneca Yoast Mine Sediment Pond Reports covering the third quarter of 2020, and that they are true and correct to the best of my knowledge and belief.

Jenna Spencer CO P.E. No. 57583

9124120

Date

Mining Area	Yoast Mine(Seneca Coal Co)	Facility Configuration	Cross-V	alley Pond	
Date Inspected	9/24/2020	Date Last Inspected	6/1	/2020	
Impoundment	Pond# 010	Pond Location	Pond Location NW% NE%, Sec. 8, T5N, R87W Site Location 8.5 ml SE of Hayden, CO		Quarterly Impoundment Inspection Form
NPDES ID No	CO-0000221 D.P. 010	Site Location			
Owner's Rep	Miranda Kawcak	Inspector	Jenna	Spencer	
		Mark o		Appropriate I	
	FEATURE		PROB		COMMENTS
		YES (At	ove)	NO (Bel	ow)
GENERAL					
	below principal spillway)	<u> </u>			
Existing Embsnkmrnt	Freeboard (10.1 ft)	10.3	l .		
Outflow (gpm)		, x		and a second and a second and a second	~5 GPM
EROSION					
Rills & Gullies on Eml	oankment			X	
Wave Erosion				X	
Spillway Erosion				X	
Burrows				X	
Other				X	
STRUCTURAL					
Differential Settling				X	
Cracks or Slides				X	
Seepage				X	
Other			äusomesameesvaste	X	
STRUCTURES					
Principal Spillway				X	
Clogged Orifice	101	1/		Λ	Outlet Culvert starting to rust out but still functionable
Clogged or Damage			X		Outlet cuivert starting to rust out out still functionable
Damaged Headgate				NA	
Emergency Spillway Erosion				Х	
Riprap					
Clogged or Damage			X		
Other					
MAINTENACE		L			
Maintenance Required		l x	3.25.25(2.7.25(2.7.25(2.7.25)	. 1915 (1914) - (1915) 1914 - (1914) (1916) 1	See comment above
Maintenance Performe				×	
Additional Comments	u .			X	
raditional Comments		l .			

Mining Area Date Inspected Impoundment NPDES ID No Owner's Rep	Yoast Mine(Seneca Coal Co) 9/24/2020 Pond #011 CO-0000221 D.P.011 Miranda Kawcak	Date La Pond Site l	Cross-Vally Pond		5/2/2020 , Sec. 16, T5N, R87W E of Hayden, CO	Quarterly Impoundment Inspection Form	
Owner's Rep	Miranda Kawcak	1112			in Appropriate Ro	ornonca:	
	FEATURE		iviai K	PRO	OBLEM	COMMENTS	
	12.11.01.0		YES (Ab		NO (Belov	w)	
GENERAL		600.0900					
Water Level (above or	below principal spillway)				X		
Existing Embsnkmrnt	Freeboard (5.1 ft)		~9				
Outflow (gpm)					X	0	
EROSION							
Rills & Gullies on Eml	oankment				X		
Wave Erosion					X		
Spillway Erosion					<u> </u>		
Burrows			X		<u> </u>		
Other					X		
STRUCTURAL		oporon (Company					
Differential Settling					X		
Cracks or Slides			X				
Seepage					X		
Other					X		
STRUCTURES		eviz Susid					
Principal Spillway							
Clogged Orifice		į			X		
Clogged or Damage					X		
Damaged Headgate					NA NA		
Emergency Spillway					1		
Erosion		×		I			
Riprap			X		1		
Clogged or Damaged Culvert			X				
Other	edicaciona de la compania de la comp		X				
MAINTENACE							
	Maintenance Required				<u> </u>		
Maintenance Performe	d		X				
Additional Comments					<u> </u>		

Mining Area Date Inspected Impoundment NPDES ID No	Yoast Mine(Seneca Coal Co) 9/24/2020 Pond #011A N/A	Pacility Configuration Date Last Inspected Pond Location Site Location		6/2/2020 SW4 NW4, Sec. 16, T5N, R87W 8.5 ml SE of Hayden, CO		Quai	rterly Impoundment Inspection Form
Owner's Rep	Miranda Kawcak	] Ans	pector Mark		na Spencer n Appropriate R	esnonse:	
	FEATURE	1900/1909 (1900/1900/1900/1	and a constitution of the		BLEM	- Doniser	COMMENTS
			YES (Ab	ove)	NO (Belov	w)	
GENERAL				9.650.50.500			
Water Level (above or	below principal spillway)				Х		
Existing Embsnkmrnt	Freeboard (4.6 ft)		~7			•••••	
Outflow (gpm)					X		0
EROSION							
Rills & Gullies on Em	bankment			X			
Wave Erosion				X			
Spillway Erosion				X			
Burrows				X X			
Other		Overes and the second second	X				
STRUCTURAL		<u> </u>		X			
Differential Settling					X		
Cracks or Slides					X		
Seepage Other					X		
STRUCTURES				100000000000000000000000000000000000000			
Principal Spillway						2000	
Clogged Orifice				X			
Clogged or Damaged Culvert			X				
Damaged Headgate					NA		
Emergency Spillway		****				•	
Erosion					Х		WWW.
Dingan				Х			

X

Χ Χ

Х X

Riprap Clogged or Damaged Culvert

Other

MAINTENACE
Maintenance Required
Maintenance Performed
Additional Comments Top of Sediment Storage = 2.1 feet below top of pipe

Mining Area	Yoast Mine(Seneca Coal Co)		onfiguration		-Vally Pond				
Date Inspected	9/27/2020		Inspected 6/1/2020		0	Owantante Immany durant Inspection Foun			
Impoundment	Pond #012		Location		Sec. 19, T5N, R87W	Qua	Quarterly Impoundment Inspection Form		
NPDES ID No	CO-0000221 D.P. 012	<ul> <li>Objects with the control of the contro</li></ul>	Location	<u> </u>	of Hayden, CO				
Owner's Rep	Miranda Kawcak	Insj	pector		na Spencer				
			Mark		n Appropriate R	esponse:			
	FEATURE				BLEM		COMMENTS		
			YES (A	ove)	NO (Belov	v)			
GENERAL				SKI OZBOJANI ŠVAI					
	below principal spillway)	1	Х						
Existing Embsnkmrnt	Freeboard (9.0 ft)	ļ	9						
Outflow (gpm)			X				~75 GPM		
EROSION									
Rills & Gullies on Em	bankment				X				
Wave Erosion				X					
Spillway Erosion		L		X					
Burrows		L		X					
Other					X				
STRUCTURAL									
Differential Settling					Χ				
Cracks or Slides					X				
Seepage			X						
Other				L X					
STRUCTURES									
Principal Spillway									
Clogged Orifice		Į		X					
Clogged or Damage		Į		X					
Damaged Headgate				NA					
Emergency Spillway									
Erosion	Erosion			X					
Riprap				X					
Clogged or Damaged Culvert		<b></b>		X					
Other				X					
MAINTENACE				\$45000 940					
Maintenance Required	1	Ĺ			X				
Maintenance Performe	•d	ſ			X				

X

Maintenance Performed Additional Comments

Mining Area Date Inspected Impoundment NPDES ID No Owner's Rep	Yoast Mine(Seneca Coal Co) 9/24/2020 Pond #012A N/A Miranda Kawcak	Date Last Inspected Pond Location Site Location Inspector	NE% NW%, Se 8.5 mi SE o Jenna	Vally Pond B/2020 cc. 19, TSN, R87W of Hayden, CO a Spencer in Appropriate	<del>-</del>	rterly Impoundment Inspection Form
	FEATURE			OBLEM	respons	COMMENTS
	YES	(Above)	NO (Belo	w)		
GENERAL						
Water Level (above or	below principal spillway)			х		Water level 1.5 feet below spillway
Existing Embsnkmmt	Freeboard (4.6 ft)	(	5.1			
Outflow (gpm)				X		
EROSION						
Rills & Gullies on Eml	bankment	-		X		
Wave Erosion				X		
Spillway Erosion			X			
Burrows			X X			
Other				X		
STRUCTURAL						
Differential Settling				X		
Cracks or Slides			X			
Seepage				X		
Other				X	essantes en	
STRUCTURES						
Principal Spillway						
Clogged Orifice	od Cultions		X			
Damaged Headgate	Clogged or Damaged Culvert		NA NA			
Emergency Spillway				IVA		
Erosion				х		
Riprap				<u> </u>		
Clogged or Damaged Culvert			X			
Other Tannaged Curvert				X		
MAINTENACE						
Maintenance Required	and the second s			Х		
Maintenance required						1

Maintenance Performed Additional Comments

Mining Area Date Inspected Impoundment NPDES ID No Owner's Rep	Yoast Mine(Seneca Coal Co) 9/24/2020 Pond #013 CO-0000221 D.P. 013 Miranda Kawcak	Date Las Pond Site l	st Inspected 6/ Location SEX NW4, S Location 8.5 mi SE spector Jenn		s-Vally Pond 6/1/2020 Sec. 19, T5N, R87W E of Hayden, CO na Spencer	Quarterly Impoundment Inspection Form	
	FEATURE		Mark o		in Appropriate I OBLEM	Response:  COMMENTS	
	PEATURE		YES (At		NO (Belo		
GENERAL					98 (SE 100) (SE 102)		
8 '	below principal spillway)				x	2.0 ft below outlet	
Existing Embsnkmrnt	Freeboard (4.0 ft)		6				
Outflow (gpm)		nom ná čásnáh vi mence reserve vez		Enclose SEED ALVERTHAN FOR SHA	<u> </u>	0	
EROSION					T		
Rills & Gullies on Em	oankment				X X		
Wave Erosion					$\frac{x}{x}$		
Spillway Erosion Burrows				X			
Other					<del></del>		
STRUCTURAL					1		
Differential Settling	A Each market, earlier on an entropic property of a property of the property o	9641242444444	2.11,00000000000000000000000000000000000	14009 STANDSTANDS	T x	Seep below toe of dam on south side is from a native spring.	
Cracks or Slides				X		Not affecting dam embankment.	
Seepage		İ	Х		X		
Other				X			
STRUCTURES		9153991931					
Principal Spillway							
Clogged Orifice					Х		
Clogged or Damage	d Culvert		X				
	Damaged Headgate				NA.		
Emergency Spillway							
	Erosion			X			
Riprap			X				
	Clogged or Damaged Culvert			X			
	Other			ana orașe vină no ciere	<u> </u>		
MAINTENACE							
Maintenance Required			X				
Maintenance Performe	α		X X			<del></del>	
Additional Comments		Additional Comments					

Mining Area	Yoast Mine(Seneca Coal Co)		onfiguration	Cross	-Vally Pond			
Date Inspected	9/24/2020	Date Las	t Inspected	6/	1/2020			
Impoundment	Pond #014	Pond )	Location NE% SW%, Sec. 19, T5N, R87W Location 8.5 ml SE of Hayden, CO		ec. 19, T5N, R87W	Quarterly Impoundment Inspection Form		
NPDES ID No	CO-0000221 D.P. 014	Site L			of Hayden, CO	-		
Owner's Rep	Miranda Kawcak	│ Insp	pector	Jenn	a Spencer			
			Marko		Appropriate R	Response:		
	FEATURE			PRO	BLEM	COMMENTS		
			YES (At	oove)	NO (Bel	low)		
GENERAL		yydd charlen						
Water Level (above or	below principal spillway)				Х	1.2 feet below outlet		
Existing Embsnkmrnt I	Freeboard (6.8 ft)		8			<u></u>		
Outflow (gpm)					X	0		
EROSION								
Rills & Gullies on Emb	oankment				Х			
Wave Erosion		L			X			
Spillway Erosion		L			X			
Burrows		_			X	<del></del>		
Other					x			
STRUCTURAL								
Differential Settling		-			Х			
Cracks or Slides		L			X			
Seepage			****		Х			
	Other			vásos ruma uz rozestného	<u> </u>			
STRUCTURES								
Principal Spillway								
Clogged Orifice		-			X			
Clogged or Damage	d Culvert	_			X			
Damaged Headgate					NA NA	· · · · · · · · · · · · · · · · · · ·		
Emergency Spillway					T			
1	Erosion				X			
Riprap					X			
	Clogged or Damaged Culvert				X			
Other MAINTENACE		56-KZ8W69006900690	2000 - 1020 - 1020 - 1020 - 1020 - 1020 - 1020 - 1020 - 1020 - 1020 - 1020 - 1020 - 1020 - 1020 - 1020 - 1020					
				GEOGRAPHICA (SP. 1894)	X			
Maintenance Required Maintenance Performe	.1	-			X			
Additional Comments	.1	ļ-			- X			
Additional Comments				<del></del>				

Mining Area	Yoast Mine(Seneca Coal Co)	Facility Configuration	Stockpond			
Date Inspected	9/24/2020	Date Last Inspected	6/2/2020			
Impoundment	ST-1	Pond Location	SW1/4 Sec. 20, T5N, R87W	Quarterly Impoundment Inspection Form		
NPDES ID No	N/A	Site Location	8.5 mi SE of Hayden, CO			
Owner's Rep	Miranda Kawcak	Inspector	Jenna Spencer			
		Mark o	r Write in Appropriate I	Response:		
	FEATURE		PROBLEM	COMMENTS		
		YES (Ab	ove) NO (Be	ow)		
GENERAL						
Water Level (above or	below principal spillway)		X	Water level 3 feet below spillway		
EROSION						
Rills & Gullies on Emb	oankment		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 NA			
Clogged or Damage	ed Culvert		NA NA			
Damaged Headgate			NA NA			
Emergency Spillway						
Erosion			X			
Riprap			X			
Clogged or Damaged	d Culvert		NA NA			
Other			X			
MAINTENACE						
Maintenance Required			X			
Maintenance Performe	d		X			
Additional Comments	***		X			