

July 9, 2021

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

RE: Yoast Mine, Permit C-94-082, Second Quarter 2021 IIR

Dear Robin:

In accordance with Rule 4.05.9(17), please find enclosed the Yoast Mine (YM) Impoundment Inspection Report (IIR) and Impoundment Inspection Log (IIL). Please contact me with any comments and/or questions.

Sincerely,

Miranda Kawcak Environmental Manager Peabody, Colorado Operations

Enclosure: YM IIR

Mining Area	Yoast Mine(Seneca Coal Co)	Facility C	Facility Configuration		/alley Pond		
Date Inspected	6/14/2021	Date Las	t Inspected	3/2	2/2021		
Impoundment	Pond #010	Pond 1	Location NW% NE%, Sec. 8, T5N, R87W 8.5 mi SE of Hayden, CO		Qua	rterly Impoundment Inspection Form	
NPDES ID No	CO-0000221 D.P. 010	Site L				V 1	
Owner's Rep	Miranda Kawcak	Ins	pector	Jaso	n Herden		
_			Mark o	r Write in	Appropriate l	Response	:
	FEATURE				BLEM		COMMENTS
			YES (At	oove)	NO (Bel	ow)	
GENERAL							
,	below principal spillway)				Х		0.2 FT BELOW
Existing Embankment	Freeboard (10.1 ft)		10.1				
Outflow (gpm)					Х		0 GPM
EROSION							
Rills & Gullies on Emb	pankment	-			Х		
Wave Erosion		-			Х		
Spillway Erosion		-			Х		
Burrows		-			Х		
Other					Х		
STRUCTURAL							
Differential Settling Cracks or Slides		•			X		
			X			-	
Seepage Other		-	X X			-	
STRUCTURES					^		
Principal Spillway							
Clogged Orifice					Х		
Clogged or Damage	d Culvert	ŀ	Х		Α		OUTLET RUSTED
Damaged Headgate		ļ			NA		
Emergency Spillway							1
Erosion					Х		
Riprap		ļ			Х		1
Clogged or Damaged	d Culvert				Х		1
Other					Х		<u> </u>
MAINTENACE							
Maintenance Required			X				
Maintenance Performe	d				Х		
Additional Comments					X		

Mining Area	Yoast Mine(Seneca Coal Co)				Cross-Vally Pond		
Date Inspected	6/14/2021	Date Las	st Inspected	3/	/23/2021		
Impoundment	Pond #011	Pond	Location	NW¼ SW¼,	Sec. 16, T5N, R87W	Qua	rterly Impoundment Inspection Form
NPDES ID No	CO-0000221 D.P.011	Site I	Location 8.5 mi SE of H		of Hayden, CO	_	
Owner's Rep	Miranda Kawcak	Ins	pector		on Herden		
			Mark o		n Appropriate R	esponse:	
	FEATURE				BLEM		COMMENTS
			YES (Ab	ove)	NO (Belo	w)	
GENERAL							
	below principal spillway)				Х		1.3 FT BELOW
Existing Embankment	Freeboard (5.1 ft)		8.5				
Outflow (gpm)					X		0 GPM
EROSION							
Rills & Gullies on Emb	oankment				X		
Wave Erosion					Х		
Spillway Erosion					Х		
Burrows					Х		
Other					Х		
STRUCTURAL							
Differential Settling					X		
Cracks or Slides			X				
Seepage					X		
Other				X			
STRUCTURES							
Principal Spillway Clogged Orifice					Х		T
Clogged or Damage	ad Culvert				X		
Damaged Headgate					NA NA		
Emergency Spillway					INA		
Erosion Erosion					Х		
Riprap					X		
Clogged or Damage	d Culvert				X		
Other	· •••				X		
MAINTENACE							
Maintenance Required					Х		
Maintenance Performe	d				Х		
Additional Comments					Х		

Mining Area	Yoast Mine(Seneca Coal Co)	Facility C	onfiguration	Cross	s-Vally Pond		
Date Inspected	6/15/2021	Date Las	st Inspected	3/	/22/2021		
Impoundment	Pond #011A	Pond	Location	SW¼ NW¼,	Sec. 16, T5N, R87W	Qua	rterly Impoundment Inspection Form
NPDES ID No	N/A	Site I	Location	8.5 mi SE of Hayden		_	
Owner's Rep	Miranda Kawcak	Ins	pector	Jaso	on Herden		
			Mark		n Appropriate I	Response:	
	FEATURE			PRC	DBLEM		COMMENTS
			YES (At	oove)	NO (Belo	w)	
GENERAL							
,	below principal spillway)				Х		1.5 FT BELOW
Existing Embankment	Freeboard (4.6 ft)		9				
Outflow (gpm)					X		0 GPM
EROSION					T		
Rills & Gullies on Eml	oankment				Х		
Wave Erosion					Х		
Spillway Erosion					Х		
Burrows					Х		
Other					Х		
STRUCTURAL					1		
Differential Settling					Х		
Cracks or Slides					Х		
Seepage					Х		
Other			X				
STRUCTURES							
Principal Spillway							T
Clogged Orifice	101				X		
Clogged or Damage					X		
Damaged Headgate					NA		
Emergency Spillway Erosion					V		
Riprap					X		
Clogged or Damage	d Culvert				X		
Other	u Cuivert				X		
MAINTENACE							
Maintenance Required					Х		
Maintenance Performe					X		
Additional Comments	u				X		
T. (6 li)	245 11 1 1 5				^		

Top of Sediment Storage = 2.1 feet below top of pipe

Mining Area	Yoast Mine(Seneca Coal Co)	Facility C	onfiguration	Cross	s-Vally Pond		
Date Inspected	6/14/2021	Date Las	t Inspected	3/	/22/2021		
Impoundment	Pond #012	Pond	Location	NE¼ NW¼,	Sec. 19, T5N, R87W	Oua	rterly Impoundment Inspection Form
NPDES ID No	CO-0000221 D.P. 012	Site I	Location	8.5 mi SE	5 mi SE of Hayden, CO		
Owner's Rep	Miranda Kawcak	Ins	pector	Jaso	on Herden		
			Mark	or Write i	n Appropriate I	Response:	
	FEATURE				DBLEM		COMMENTS
			YES (Ab	oove)	NO (Below)		
GENERAL							
	below principal spillway)		Х				0.1 FT ABOVE
Existing Embankment	Freeboard (9.0 ft)		9				
Outflow (gpm)			X				57.7 GPM
EROSION	•				T		
Rills & Gullies on Emb	pankment				X		
Wave Erosion					Х		
Spillway Erosion					X		
Burrows					X		
Other STRUCTURAL					Х		
Differential Settling					Х		
Cracks or Slides					X		-
Seepage					X		
Other					X		
STRUCTURES			^				
Principal Spillway							
Clogged Orifice					Х		
Clogged or Damage	d Culvert				Х		1
Damaged Headgate					NA		
Emergency Spillway		l e e e e e e e e e e e e e e e e e e e					,
Erosion					Х		
Riprap					Х]
Clogged or Damageo	l Culvert				Х		
Other					Х		
MAINTENACE							
Maintenance Required					Х		
Maintenance Performe	d				Х		
Additional Comments					X		

Mining Area	Yoast Mine(Seneca Coal Co)	acility Co	nfiguratio	Cross-	Vally Pond					
Date Inspected	6/16/2021	Date Last			22/2021					
Impoundment	Pond #012A		ocation		ec. 19, T5N, R87W	Ongi	rterly Impoundment Inspection Form			
NPDES ID No	N/A		ocation		of Hayden, CO	Quai	terry impoundment inspection form			
Owner's Rep	Miranda Kawcak	1	ector		n Herden					
owner steep	Williamaa Kaweak	msp			in Appropriat	e Respons	e:			
	FEATURE				OBLEM	e respons	COMMENTS			
	YES (
GENERAL	, , ,									
Water Level (above or	below principal spillway)				Х		1 FT BELOW			
Existing Embankment	Freeboard (4.6 ft)		6	.1						
Outflow (gpm)	• •				Х		0 GPM			
EROSION										
Rills & Gullies on Emb	oankment				Х					
Wave Erosion					Х					
Spillway Erosion					Х					
Burrows					X					
Other					X					
STRUCTURAL										
Differential Settling					X					
Cracks or Slides				X						
Seepage				X						
Other				Х						
STRUCTURES										
Principal Spillway			1							
Clogged Orifice	101				X					
Clogged or Damage					X					
Damaged Headgate					NA					
Emergency Spillway			1	ı		ı				
Erosion					X					
Riprap Clogged or Damage	d Culvert				X X					
Other	u Curvert				X					
MAINTENACE					Х					
Maintenance Required					X					
Maintenance Performe					X					
Additional Comments	A.				X					
A regulational Comments			1		^					

Mining Area	Yoast Mine(Seneca Coal Co)	Facility C	onfiguration	Cross-	-Vally Pond		
Date Inspected	6/14/2021	Date Las	st Inspected	3/2	22/2021		
Impoundment	Pond #013	Pond	Location	Location SE¼ NW¼, Sec. 19, T5N, R87W		Qua	rterly Impoundment Inspection Form
NPDES ID No	CO-0000221 D.P. 013	Site I	Location 8.5 mi SE of Hayden, CO				
Owner's Rep	Miranda Kawcak	Ins	pector		n Herden		
			Mark o		Appropriate	Response	
	FEATURE				BLEM		COMMENTS
			YES (At	oove)	NO (Bel	ow)	
GENERAL							
	below principal spillway)				Х		1 FT BELOW
Existing Embankment	Freeboard (4.0 ft)		6				
Outflow (gpm)					Х		0 GPM
EROSION	•						
Rills & Gullies on Emb	pankment				X		
Wave Erosion					X		
Spillway Erosion					X		
Burrows Other			X				
STRUCTURAL					Х		
Differential Settling					Х		
Cracks or Slides					X		
Seepage			X				
Other			X				
STRUCTURES			^				
Principal Spillway							
Clogged Orifice					Х		
Clogged or Damage	d Culvert				Х		
Damaged Headgate					NA		
Emergency Spillway							
Erosion					Х		
Riprap					Х		
Clogged or Damageo	Clogged or Damaged Culvert						
Other	Other				Х		
MAINTENACE							
Maintenance Required					Х		
Maintenance Performe	d			Х			
Additional Comments					Х		

Mining Area	Yoast Mine(Seneca Coal Co)		onfiguration	Cross-	Vally Pond		
Date Inspected	6/14/2021	Date Las	t Inspected	3/2	2/2021		
Impoundment	Pond #014	Pond 1	Location NE% SW%, Se		ec. 19, T5N, R87W	Qua	rterly Impoundment Inspection Form
NPDES ID No	CO-0000221 D.P. 014	Site I	Location 8.5 mi SE of Ha		of Hayden, CO	_	
Owner's Rep	Miranda Kawcak	Insp	pector	Jasoi	n Herden		
		•	Mark o		Appropriate I	Response:	
	FEATURE				ROBLEM		COMMENTS
			YES (Al	oove)	NO (Bel	ow)	
GENERAL							
· ·	below principal spillway)				Х		1.3 FT BELOW
Existing Embankment	Freeboard (6.8 ft)		8				
Outflow (gpm)					Х		0 GPM
EROSION	•						
Rills & Gullies on Emb	oankment	-			Х		
Wave Erosion		-			X		
Spillway Erosion		-			X		
Burrows		-			X		
Other					Х		
STRUCTURAL Differential Settling		1			V		
Cracks or Slides		-			X		
Seepage		-			X		
Other		-			X		
STRUCTURES							
Principal Spillway							
Clogged Orifice					Х		
Clogged or Damage	ed Culvert	F			X		
Damaged Headgate					NA		
Emergency Spillway		i			107		
Erosion		J			Х		
Riprap		f			X		
Clogged or Damage	d Culvert	j			Х		
Other		Ī			Х		
MAINTENACE							
Maintenance Required					Х		
Maintenance Performe	d	Ţ			Х		
Additional Comments					Х		

Mining Area	Yoast Mine(Seneca Coal Co)	Facility C	onfiguration	Sto	ockpond				
Date Inspected	6/17/2021		st Inspected		23/2021				
Impoundment	Stock Tank ST-1		•		20, T5N, R87W	Ono	rterly Impoundment Inspection Form		
NPDES ID No	N/A		ocation				terry impoundment inspection form		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	·				3.5 mi SE of Hayden, CO Jason Herden				
Owner's Rep	Miranda Kawcak	Ins	pector						
	FEATURE		Mark of		Appropriate F	cesponse:	COMMENTS		
	FEATURE	-	VES (Ab		NO (Belo	om)	COMMENTS		
GENERAL	, , ,								
	below principal spillway)	I			Х		1.6 FT BELOW		
EROSION	below principal spiliway)				Λ.		IT.6 FT BELOW		
Rills & Gullies on Em	hankmant				Х				
Wave Erosion	Dankinent	-			X				
Spillway Erosion		}			X				
Burrows		-			X				
Other					X				
STRUCTURAL					^				
Differential Settling					Х				
Cracks or Slides		-	X						
Seepage				X					
Other				X					
STRUCTURES		· ·							
Principal Spillway									
Clogged Orifice					NA				
Clogged or Damag	ed Culvert				NA				
Damaged Headgate	e				NA				
Emergency Spillway									
Erosion					Х				
Riprap		Ī			Х				
Clogged or Damaged Culvert				NA		•			
Other			·	·	Х				
MAINTENACE									
Maintenance Required					X				
Maintenance Performe	-	_			Х				
Additional Comments					X				

IMPOUNDMENT INSPECTION LOG

JOB DATA

008

JOB NAME: PEC Hydrologic Services	CLIENT: Peabody	JOB(s): 2021-095 (PSCM), 2021-096 (SCC)

FLOW DA	FLOW DATA									
SITEID	COMPANY	MINE	DATE	WATER LEVEL (FT)	OUTFLOW (GPM)	OBSERVATIONS	MAINTENANCE (Y/N)			
002	Sage Creek	Sage Creek	6-15-21	0,0	43.6	all water going under Flume	y			
003	Sage Creek	Sage Creek	6-15-21	0.10	3.1	Culvert Flume booken, animal bur	rows N			
004	Sage Creek	Sage Creek	6-15/21	0.15	44.9		N			
Lower Sump	Sage Creek	Sage Creek	6-17-27	0.1	87.4		N			
PECOCO	Sage Creek	Sage Creek	6-17-21	-G	978		N			
Portal Sump 1	Sage Creek	Sage Creek	6-17-21	_	-	no Flow	N			
Portal Sump 2	Sage Creek	Sage Creek	6-17-21	0,[no Flow	N			
Spill Control 2	Sage Creek	Sage Creek	6-17-21		}	Dry	N			
Truck Wash	Sage Creek	Sage Creek	6-17-21	-)	DIS	N			
Upper Sump	Sage Creek	Sage Creek	10-17-21	0,1	87.6		N			
001	Seneca	Hayden Gulch	6-17-21	-2.0	_	NO Flow	N			
002	Seneca	Hayden Gulch	6-17-21	-3,0	_	NO Flow	\sim			
005	Seneca	Seneca II West	6-14-21	-15	_	NO Flow spring @Pun rojuge	at N			
006	Seneca	Seneca II West	6-14-21	0.1	42.1	NO Flow NO Flow spring @ Den mings sluft on S. Side, no impact	N			
009	Seneca	Seneca II West	6-14-2)	-35	<u> </u>	no Flow	N			
015	Seneca	Seneca II West	6-14-21	-,3	-	NO FAM	N			
016	Seneca	Seneca II West	6-14-51	0.1	63,4	smil seep	√,			
017	Seneca	Seneca II West	6-14-21	0.1	1.0		N			
T-1	Seneca	Seneca II West	6-17-21	~	<u> </u>	פוק	N			
T-18	Seneca	Seneca II West	6-17-21	- 2,5	1	No Flow	N			
T-2	Seneca	Seneca II West	6-17-21	_	~	Dry	N			
T-20	Seneca	Seneca II West	6-17-21	-3.4	J	NO Flow	N			
T-22	Seneca	Seneca II West	6-17-21	-1.4	~	NO Flow	N			
T-24	Seneca	Seneca II West	6-17-21	~	~	DIM	N			
T-25	Seneca	Seneca II West	6-17-21			Dry	~			
T-26	Seneca	Seneca II West	617-21	~ 3,	-	NO Flow	N			

6-14-3

0,

WWCENGINEERING
IMPOUNDMENT INSPECTION LOG

y

2,2 outlet pipe baken

SITEID	COMPANY	MINE	DATE	WATER LEVEL (FT)	OUTFLOW (GPM)	OBSERVATIONS	MAINTENANCE (Y/N)
T-27	Seneca	Seneca II West	6-17-21	-4'2	~	NO Flow NO Flo	N
T-3	Seneca	Seneca II West	4-17-21	~ 3, l	-	No flow	N
T-5	Seneca	Seneca II West	6-17-21	~3,3	~	NO Flow	N
010	Seneca	Yoast	6-14-31	-0,3	~	No Flan, cutlet instead, cat tails	У
011	Seneca	Yoast	6-14-21	-1.3		No Flance	N
011A	Seneca	Yoast	6-15-31	-1.5	_	No Flow	N
012	Seneca	Yoast	6-14-21	0.1	57.7		N
012A	Seneca	Yoast	6-16-31	-1.0	_	No Flow	N
013	Seneca	Yoast	6-14-21	-1.0	_	No Flow	N
014	Seneca	Yoast	6-14-21	-1.3	_	No Flow	N
ST-1	Seneca	Yoast	6-17-21	-1.4		NO Flow NO Flow NO Flow	N

FIELD PERSONNEL: 7H	FIELD PERSONNEL SIGNATURE:	
NOTES		
*		

