

November 23, 2021

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

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

CDRMS:

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			Configuration		Valley Pond								
Date Inspected	10/27/2021	4	st Inspected	9/2	23/2021	_							
Impoundment	Pond #010		Location		Sec. 8, T5N, R87W	Qua	rterly Impoundment Inspection Form						
NPDES ID No	CO-0000221 D.P. 010	Site I	Location	8.5 mi SE	of Hayden, CO								
Owner's Rep	Miranda Kawcak	Ins	pector		Jason Herden								
			Mark o		Appropriate I	Response:							
	FEATURE		PROBLEM				COMMENTS						
			YES (At	oove)	NO (Belo	ow)							
GENERAL													
Water Level (ft above of	or below principal spillway)				X		0.9						
Existing Embankment	Freeboard (10.1 ft)		11.0)									
Outflow (gpm)					X		0.0						
EROSION													
Rills & Gullies on Emb	pankment				X								
Wave Erosion					X								
Spillway Erosion					X								
Burrows					X								
Other					Х								
STRUCTURAL													
Differential Settling					X								
Cracks or Slides			X										
Seepage			Х										
Other				X									
STRUCTURES													
Principal Spillway													
Clogged Orifice					Х								
Clogged or Damage			X				OUTLET RUSTED						
Damaged Headgate					NA								
Emergency Spillway													
Erosion					X								
Riprap				X									
Clogged or Damaged Culvert					Х								
Other			Х										
MAINTENACE													
Maintenance Required					X								
Maintenance Performed					Х								
Additional Comments					X								

Mining Area	Yoast Mine(Seneca Coal Co)	o) Facility Configuration		Cross	s-Vally Pond						
Date Inspected	10/28/2021	Date Las	t Inspected	9/	/23/2021						
Impoundment	Pond #011	Pond I	Location	NW¼ SW¼,	Sec. 16, T5N, R87W	Quai	rterly Impoundment Inspection Form				
NPDES ID No	CO-0000221 D.P.011	Site L	ocation	8.5 mi SE	of Hayden, CO		J 1				
Owner's Rep	Miranda Kawcak	Insp	spector		on Herden						
			Mark		n Appropriate R	esponse:					
	FEATURE		PROBLEM				COMMENTS				
			YES (Ab	ove)	NO (Belo	w)					
GENERAL											
	or below principal spillway)			Х		12.0				
Existing Embankment	Freeboard (5.1 ft)		17.1								
Outflow (gpm)					X		0.0				
EROSION											
Rills & Gullies on Emb	bankment	_			Х						
Wave Erosion					Х						
Spillway Erosion					Х						
Burrows					X						
Other					Х						
STRUCTURAL					1						
Differential Settling		-			X		<u> </u>				
Cracks or Slides		_			X		 				
Seepage Other		-			X		 				
STRUCTURES			X								
Principal Spillway											
Clogged Orifice					Х						
Clogged or Damage	od Culwart	-			X		 				
Damaged Headgate		-			NA NA		 				
Emergency Spillway					IVA						
Erosion					Х						
Riprap		-			X		†				
Clogged or Damaged Culvert					X		†				
Other					X		†				
MAINTENACE											
Maintenance Required					Х						
Maintenance Performed					Х						
Additional Comments					Х		†				

Mining Area			Configuration		s-Vally Pond							
Date Inspected	10/27/2021		st Inspected	9/	/23/2021							
Impoundment	Pond #011A		Location 8.5 mi SI		Sec. 16, T5N, R87W	Qua	terly Impoundment Inspection Form					
NPDES ID No	N/A				of Hayden, CO							
Owner's Rep	Miranda Kawcak	Ins	pector	Jason Herden								
			Mark		n Appropriate R	Response:						
	FEATURE		PROBLEM				COMMENTS					
			YES (Ab	ove)	NO (Belo	w)						
GENERAL Water Level (ft above or below principal spillway) X 2.5												
					X		2.5					
Existing Embankment	Freeboard (4.6 ft)		7.1									
Outflow (gpm)					X		0.0					
EROSION												
Rills & Gullies on Emb	oankment				X							
Wave Erosion					Х							
Spillway Erosion					Х							
Burrows					X							
Other			X									
STRUCTURAL			T		1							
Differential Settling			X									
Cracks or Slides					X							
Seepage			X									
Other			X									
STRUCTURES												
Principal Spillway			1		T		_					
Clogged Orifice					X							
Clogged or Damage					Х							
Damaged Headgate					NA							
Emergency Spillway			ı		1							
Erosion					X							
1 1	Riprap				X							
Clogged or Damaged Culvert				X								
Other					X							
MAINTENACE			ı		1							
*	Maintenance Required				Х							
	Maintenance Performed				X							
Additional Comments	2.1 foot heless ton of n				Х							

Top of Sediment Storage = 2.1 feet below top of pipe

Mining Area			onfiguration		s-Vally Pond							
Date Inspected	10/27/2021		st Inspected	9/	/23/2021	_						
Impoundment	Pond #012		Location		Sec. 19, T5N, R87W	Qua	rterly Impoundment Inspection Form					
NPDES ID No	CO-0000221 D.P. 012	Site I	Location 8.5 mi SE		E of Hayden, CO		•					
Owner's Rep	Miranda Kawcak	Ins	spector Ja		on Herden							
			Mark		in Appropriate F	Response:						
	FEATURE			PROBLEM			COMMENTS					
			YES (Ab	ove)	NO (Belo	w)						
GENERAL												
	or below principal spillway))	X				0.1					
Existing Embankment	Freeboard (9.0 ft)		8.9									
Outflow (gpm)			Х				47.6					
EROSION												
Rills & Gullies on Emb	ankment				X							
Wave Erosion					X							
Spillway Erosion					Х							
Burrows					X							
Other					X							
STRUCTURAL					1 ,							
Differential Settling					X							
Cracks or Slides					X X							
Seepage Other												
STRUCTURES			X									
Principal Spillway												
Clogged Orifice					Х							
Clogged or Damage	d Culvert				X							
Damaged Headgate					NA NA							
Emergency Spillway					101							
Erosion Erosion					Х							
Riprap					X							
Clogged or Damaged Culvert				X								
Other					X							
MAINTENACE												
Maintenance Required					Х							
Maintenance Performe				X								
Additional Comments					Х							

Mining Area	Yoast Mine(Seneca Coal Co)	acility Co	nfiguratio	Cross-	-Vally Pond							
Date Inspected	10/27/2021	Date Last	Inspected	9/2	23/2021							
Impoundment	Pond #012A	Pond L	ocation	NE¼ NW¼,S	ec. 19, T5N, R87W	Quai	rterly Impoundment Inspection Form					
NPDES ID No	N/A	Site Lo	ocation	8.5 mi SE	of Hayden, CO		J P I I I I I I I I I I I I I I I I I I					
Owner's Rep	Miranda Kawcak	Insp	ector	Jason Herden								
			Mark	or Write	in Appropriate	Respons	e:					
	FEATURE			PR	OBLEM		COMMENTS					
			YES (Above)	NO (Bel	ow)						
GENERAL TO A CONTROL OF THE CONTROL												
	or below principal spillway)			X		DRY					
Existing Embankment	Freeboard (4.6 ft)		12	2.0								
Outflow (gpm)					Х		0.0					
EROSION												
Rills & Gullies on Eml	oankment				Х							
Wave Erosion					X							
Spillway Erosion					X							
	Burrows			X								
Other					Х							
STRUCTURAL												
Differential Settling					Х							
Cracks or Slides			X									
Seepage					Х							
Other					Х							
STRUCTURES												
Principal Spillway			1									
Clogged Orifice					Х							
Clogged or Damage					Х							
Damaged Headgate					NA							
Emergency Spillway				1		1						
Erosion					X							
	Riprap				X							
Clogged or Damaged Culvert				X								
Other					X							
MAINTENACE					· ·							
Maintenance Required					X							
Maintenance Performe Additional Comments	Maintenance Performed				X							
Additional Comments					X							

Mining Area	Yoast Mine(Seneca Coal Co)		onfiguration	Cross-	-Vally Pond							
Date Inspected	10/27/2021	Date Last	t Inspected	9/2	23/2021							
Impoundment	Pond #013	Pond I	Location	SE¼ NW¼, S	ec. 19, T5N, R87W	Qua	rterly Impoundment Inspection Form					
NPDES ID No	CO-0000221 D.P. 013	Site L	ocation	8.5 mi SE	of Hayden, CO							
Owner's Rep	Miranda Kawcak	Insp	spector Jason Herden									
			Mark o		Appropriate l	Response:						
	FEATURE		PROBLEM				COMMENTS					
			YES (Ab	ove)	NO (Belo	ow)						
GENERAL TO A COLUMN TO THE COL												
,	or below principal spillway))			X		3.3					
Existing Embankment	Freeboard (4.0 ft)		7.3									
Outflow (gpm)					X		0.0					
EROSION	1 .	1			.,							
Rills & Gullies on Emb Wave Erosion	oankment				X							
					X							
Spillway Erosion Burrows					X X							
Other			X									
STRUCTURAL					^							
Differential Settling					Х							
Cracks or Slides			X									
Seepage			X									
Other			X									
STRUCTURES												
Principal Spillway												
Clogged Orifice					Х							
Clogged or Damage	ed Culvert				X							
Damaged Headgate					NA							
Emergency Spillway												
Erosion					Х							
Riprap					Х							
Clogged or Damaged Culvert			X									
Other					X							
MAINTENACE		1										
Maintenance Required					X							
Maintenance Performe	d	-			X X							
Additional Comments					X							

Mining Area	Yoast Mine(Seneca Coal Co)	Facility Configuration		Cross-	Vally Pond							
Date Inspected	10/27/2021		st Inspected	9/2	3/2021							
Impoundment	Pond #014	Pond	Location	NE¼ SW¼, 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 Hayden, CO	_	• •					
Owner's Rep	Miranda Kawcak	Ins	spector Jas		n Herden							
			Mark o	r Write in	Appropriate F	Response:						
	FEATURE				BLEM		COMMENTS					
			YES (At	oove)	NO (Bel	ow)						
GENERAL CONTRACTOR OF THE CONT												
	or below principal spillway)				Х		3.0					
Existing Embankment	Freeboard (6.8 ft)		9.8									
Outflow (gpm)					Х		0.0					
EROSION												
Rills & Gullies on Emb	ankment				Х							
Wave Erosion					Х							
Spillway Erosion					X							
Burrows					X							
Other STRUCTURAL					Х							
Differential Settling					Х							
Cracks or Slides					X		1					
Seepage			X									
Other			X									
STRUCTURES												
Principal Spillway												
Clogged Orifice					Х							
Clogged or Damage	d Culvert				Х							
Damaged Headgate					NA							
Emergency Spillway		<u> </u>										
Erosion					Х							
Riprap					Х							
Clogged or Damaged Culvert					Х							
Other			Х									
MAINTENACE	MAINTENACE											
Maintenance Required					Х							
	Maintenance Performed				Х							
Additional Comments					Х							

Mining Area	Yoast Mine(Seneca Coal Co)	Facility Configuration		Sto	ockpond						
Date Inspected	10/27/2021	Date La	st Inspected	9/	23/2021						
Impoundment	Stock Tank ST-1	Pond	Location	SW¼ Sec	. 20, T5N, R87W	Quai	rterly Impoundment Inspection Form				
NPDES ID No	N/A	Site	Location	8.5 mi SE	of Hayden, CO	_	· · ·				
Owner's Rep	Miranda Kawcak	Ins	spector Jas		n Herden						
			Mark or	r Write in	Appropriate F	Response:					
	FEATURE			PRO	BLEM		COMMENTS				
			YES (Ab	ove)	NO (Belo	ow)					
GENERAL											
	or below principal spillway)				X		3.0, DRY				
EROSION											
Rills & Gullies on Em	bankment				X						
Wave Erosion					X						
Spillway Erosion					Х						
Burrows					X						
Other					X						
STRUCTURAL											
Differential Settling					Х						
Cracks or Slides			X								
Seepage			X								
Other			X								
STRUCTURES											
Principal Spillway			1		T						
Clogged Orifice					NA						
Clogged or Damage					NA						
Damaged Headgate	:				NA						
Emergency Spillway			ı		T						
Erosion					X						
Riprap	101				X						
Clogged or Damaged Culvert			NA								
Other				Х							
MAINTENACE			ı		1						
Maintenance Required					X						
Maintenance Performed			X								
Additional Comments					X						

IMPOUNDMENT INSPECTION LOG

JOB DATA

	JOB NAME: PEC Hydrologic Services	CLIENT: Peabody	JOB(s): 2021-095 (PSCM), 2021-096 (SCC)
- 1	, ,		

FLOW DATA

FLOW DAT	ГА					T	
SITEID	COMPANY	MINE	DATE	WATER LEVEL (FT)	OUTFLOW (GPM)	OBSERVATIONS	MAINTENANCE (Y/N)
002	Sage Creek	Sage Creek	10-27-7	0,04	28.₹	Flume / acting & Plowing under	У
003	Sage Creek	Sage Creek	10-27-71	-0.15		Flume lacking & Flowing under NO Flow ganimal burrows	N
004	Sage Creek	Sage Creek	14.57.51	0.10	46.4		N
Lower Sump	Sage Creek	Sage Creek	12.82.21	0.05	47		N
PECOCO	Sage Creek	Sage Creek	10-28-21		49		N
Portal Sump 1	Sage Creek	Sage Creek	0-28-21			No Flow	N
Portal Sump 2	Sage Creek	Sage Creek	10-35-21	~	~	No Tpumpim	N
Spill Control 2	Sage Creek	Sage Creek	10~28X)		Dis	N
Truck Wash	Sage Creek	Sage Creek	10.3821)	J	りい	~
Upper Sump	Sage Creek	Sage Creek	12.38.21	σ.\	28		\sim
001	Seneca	Hayden Gulch	10-२४-२।	~700	38	NO Flow, Dry	N
002	Seneca	Hayden Gulch	12-28-4	_	7	NO Flow, Dry	N
005	Seneca	Seneca II West	10~ 27-31	- 3.0	_	NO Flow	\sim
006	Seneca	Seneca II West	10-77.31	0.1	73.7	Sluft ans. side	N
009	Seneca	Seneca II West	10-27-21	-2.7	~	NO Flow	N
015	Seneca	Seneca II West	10-27-21	-0.4	_	16 Flow	N
016	Seneca	Seneca II West	10-27-21	0.1	213		~
017	Seneca	Seneca II West	10-27-21	-0.4	_	NO Flam	N
T-1	Seneca	Seneca II West	10.97.31			Pry	~
T-18	Seneca	Seneca II West	6-27-21	-40	_	NO Flow	
T-2	Seneca	Seneca II West	10-27-21			Dry	N
T-20	Seneca	Seneca II West	6-27-21	_		NOFIN	N
T-22	Seneca	Seneca II West	10-27-71		_	Dia	N
T-24	Seneca	Seneca II West	10-27-21	_		014	N
T-25	Seneca	Seneca II West	10-27-9				N
T-26	Seneca	Seneca II West	12-22-01	-3,3	_	no Flow	N



SITEID	COMPANY	MINE	DATE	WATER LEVEL (FT)	OUTFLOW (GPM)	OBSERVATIONS	MAINTENANCE (Y/N)
T-27	Seneca	Seneca II West	6-27-21	-2.5		NOFLOW	N
T-3	Seneca	Seneca II West	1003721			DIS	N
T-5	Seneca	Seneca II West	かってる	-4	_	NO Flow pipe rusted	N
010	Seneca	Yoast	15 VE- 01	-0.9	~	NO Flow , pipe rusted	N
011	Seneca	Yoast	P-88-4	12.0		No Ilow	لم
011A	Seneca	Yoast	10-27-21	d 2.5		NO FLOW	N
012	Seneca	Yoast	10-27.21	0.08	47.6	cattilly	N
012A	Seneca	Yoast	10-27-21			No Flow, Dry	N
013	Seneca	Yoast	10~37~21	-3.3	~	No Flow	N
014	Seneca	Yoast	الا 22ء	- 3,0)	NO FIEW NO FIEW	N
ST-1	Seneca	Yoast	०~८४८।	~3,0	~	NO Ibw, Dry	N

FIELD PERSONNEL:	74	FIELD PERSONNEL SIGNA	ATURE:	<u>ہ</u>	
NOTES			589		
<u>. </u>					

