

Seneca Coal Company Peabody Energy PO Box 670 36600 Routt County Road 27 Hayden, CO 81639

December 14, 2017 Jason Musick Colorado Division of Reclamation, Mining and Safety 1313 Sherman Street Denver, CO 80203

RE: Yoast Mine, Permit C-94-082, 4Q17 IIR

Dear Jason:

In accordance with Rule 4.05.9(17), please find enclosed the Yoast Mine Impoundment Inspection Report (IIR) and Impoundment Inspection Log (IIL) for Ponds: Pond #010, Pond #011, Pond #011A, Pond #012A, Pond #013, Pond #014 and Stock Tank ST-1.

Maintenance is required at Ponds: #10 (intake) and #012 (flume). Please contact me with any comments and/or questions.

Sincerely,

Miranda Blomquist

Muarda Kawcak

TNS/tns

Enclosure: Yoast IIR

Mining Area	Yoast Mine(Seneca Coal Co)	Facility Configurati		ross-Valley Pond			
Date Inspected	10/17/2017	Date Last Inspecte		8/17/2017	•		
Impoundment	Pond #010	Pond Location	100	NEK, Sec. 8, T5N, R87W	Quai	rterly Impoundment Inspection Form	
NPDES ID No	CO-0000221 D.P. 010	E-11-10-10-10-10-10-10-10-10-10-10-10-10-	Site Location 8.5 mi SE of Hayd				
Owner's Rep	Miranda Kawcak	Inspector	The second second	Jason Herden			
		Mari		te in Appropriate F	Response:		
	FEATURE			PROBLEM		COMMENTS	
		YES	(Above) NO (Below)				
GENERAL			14 TO 18 TO		CHEST STATE		
	below principal spillway)	<u> </u>	X			water level 0.15 feet above spillway	
Existing Embankment Freeboard ( 10.1 ft)		1	0.1				
Outflow (gpm)			X			23.5	
EROSION	WHEN LOSS SERVED BY		DOMEST		STATE AND IN		
Rills & Gullies on Em	bankment			X			
Wave Erosion				X			
Spillway Erosion			x				
Burrows				X			
Other				X		CONTRACTOR OF THE PROPERTY OF	
STRUCTURAL				HGRERICAL SZAM	1916-981-001		
Differential Settling				X			
Cracks or Slides			X				
Seepage			X				
Other				X			
STRUCTURES	<b>以</b> 相称,1名为数据的自由的自		HE STATES		23234059		
Principal Spillway							
Clogged Orifice				X			
Clogged or Damage			Х			Intake starting to rust out but still functionable	
Damaged Headgate	:			NA			
Emergency Spillway							
Erosion				X			
Riprap				X			
Clogged or Damaged Culvert			X				
Other			No.	X			
MAINTENACE		THE WALL STORES	SOUTH		N. STREET,		
Maintenance Required			X			See comment above	
Maintenance Performe	•			Х			
Additional Comments		l l		X	Ĺ		

Mining Area	Yoast Mine(Seneca Coal Co)	Facility Config	uration	Cross	s-Vally Pond				
Date Inspected	10/18/2017	Date Last Ins			/17/2017				
Impoundment	Pond #011	Pond Loca	tion	NWX SWX,	NWX SWX, Sec. 16, T5N, R87W 8.5 mi SE of Hayden, CO		Quarterly Impoundment Inspection Form		
NPDES ID No	CO-0000221 D.P.011	Site Locat	ion						
Owner's Rep	Miranda Kawcak	Inspecto	r		on Herden				
PLANE STATE OF THE	ASETS TO SEE AN AN			or Write in Appropriate Response:			entropy and the control of the second of the control of the contro		
	FEATURE			PRO	BLEM		COMMENTS		
•	YES (A		YES (A	oove) NO (Below)					
GENERAL			NAME OF STREET	<b>Chaptain</b>		ZNETA OF			
Water Level (above or	below principal spillway)				х		Water level 7.0 feet below top of pipe		
Existing Embankment	Freeboard (5.1 ft)		5.2						
Outflow (gpm)					Х		5275 1 1776-41 1. Substitute 155-48195		
EROSION					<b>公司的基础的</b>	SERVICE STREET			
Rills & Gullies on Em	bankment				Х				
Wave Erosion					Х				
Spillway Erosion					Х				
Burrows					Х				
Other					Х				
STRUCTURAL				CONTROL OF L					
Differential Settling					Х				
Cracks or Slides					X				
Seepage				X					
Other				X					
STRUCTURES			SHARE	SCHELES	MARKET OF STREET	<b>HELITATIONS</b>	CONTRACTOR AND AND ADDRESS OF THE PROPERTY OF		
Principal Spillway									
Clogged Orifice					х				
Clogged or Damag					х х				
Damaged Headgate	2				NA NA				
Emergency Spillway		<del></del>			r <del>-</del>				
Erosion					X				
Riprap		<u> </u>			X				
Clogged or Damage	ed Culvert				X				
Other					X				
MAINTENACE			SAULTON'S	PER SECTION	11 1 1 1 1 1 1 1 1 1				
Maintenance Required		<b>⊢</b>			X				
Maintenance Performe		<b>⊢</b>			X				
Additional Comments					X				

Mining Area		Facility Configuration					
Date Inspected	10/17/2017	Date Last Inspected	8/17/	2017			
Impoundment	Pond #011A	Pond Location	SWX NWX, Sec.	16, T5N, R87W	Quarterly Impoundment Inspection Form		
NPDES ID No	N/A	Site Location	ocation 8.5 mi SE of Hayden, CO				
Owner's Rep	Miranda Kawcak	Inspector	Jason F	lerden			
Chicago Properties		Mark e	or Write in A	ppropriate R	esponse:		
	FEATURE		PROBL	EM	COMMENTS		
		YES (Ab	ove)	NO (Belo	v)		
GENERAL				THE RESERVE			
	below principal spillway)			Х	Water level is 2.3 feet below outlet pipe		
Existing Embankment Freeboard (4.6 ft)		5.3					
Outflow (gpm)				X			
EROSION			BANK BANK	GEARLY STATES			
Rills & Gullies on Em	bankment			Х			
Wave Erosion				X			
Spillway Erosion				Х			
Burrows				Х			
Other				X			
TRUCTURAL							
Differential Settling				X	<u> </u>		
Cracks or Slides			X				
Seepage			X				
Other				X			
TRUCTURES			White Area of the				
Principal Spillway							
Clogged Orifice	101			X			
Clogged or Damag				X			
Damaged Headgate				NA			
Emergency Spillway				•			
Erosion				X	<b></b>		
Riprap	101			X			
Clogged or Damage	a Cuiven			X			
Other MAINTENACE	CONTRACTOR PROPERTY AND		NOLENNA LI NECONO	X			
	SERVICE PROPERTY AND PROPERTY.		separation of the St.	AVAILUE ES SON ESTA			
Maintenance Required Maintenance Performe				X			
viaintenance Performe Additional Comments	ou .			X			
Additional Comments Top of Sediment Stora				Х			

Mining Area		Facility Configuration	Cross-Vall	y Pond			
Date Inspected	10/17/2017	Date Last Inspected	8/17/2	017			
Impoundment	Pond #012	Pond Location	NEX NWX,Sec. 1		Quarterly Impoundment Inspection Form		
NPDES ID No	CO-0000221 D.P. 012	Site Location	8.5 mi SE of H	layden, CO	, <u>,</u>		
Owner's Rep	Miranda Kawcak	Inspector	Jason He				
		Mark	or Write in A	propriate R	lesponse:		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FEATURE		PROBLE	M	COMMENTS		
		YES (Ab	oove)	NO (Belo	w)		
GENERAL			Mark Convenience	CHECKE E			
	below principal spillway)	X			Water level 0.06 feet above spillway		
Existing Embankment	Freeboard (9.0 ft)	9					
Outflow (gpm)		X			25.8		
EROSION							
Rills & Gullies on Em	bankment			X			
Wave Erosion				х			
Spillway Erosion				X			
Burrows				X			
Other				X			
STRUCTURAL							
Differential Settling				X			
Cracks or Slides				X			
Seepage				X			
Other STRUCTURES			X				
	PARTICIPATION OF THE PARTICIPA		PERMISSION NO.				
Principal Spillway Clogged Orifice		1					
Clogged or Damage	ad Culyant	ļ		X			
Damaged Headgate				NA NA	<del></del> _		
Emergency Spillway	·				<u> </u>		
Erosion Erosion			<del>~</del>	Х			
Riprap				<del>^</del>	<del></del>		
Clogged or Damage	d Culvert			X	<del></del>		
Other	= = =:: <del>***</del>		<del></del>	X			
MAINTENACE	<b>发展的人民工学生学学会20</b> 00年	Charles a high late for a least	STOCK SET WINE	S September 2	CAN ESTA SERVICIO DE CARRON DE		
Maintenance Required		X			Erosion behind and underneath flume		
Maintenance Performe				X			
Additional Comments				X			

Mining Area Date Inspected Impoundment NPDES ID No Owner's Rep	Yoast Mine(Seneta Coal Co) 10/17/2017 Pond #012A N/A Miranda Kawcak	acility Configu Date Last Insp Pond Locati Site Locatio Inspector	ected on on	8/17 NEX NWX,Se 8.5 ml SE o	/ally Pond //2017 :. 19, TSN, R87W if Hayden, CO Herden	Quarte	erly Impoundment Inspection Form
				or Write i	n Appropriate	Response:	
	FEATURE			PRO	BLEM		COMMENTS
		1	YES (A	lbove)	NO (Belo	w)	
GENERAL		STATE OF THE	<b>HOLE</b>				
Water Level (above or	r below principal spillway)				Х		Water level 0.9 feet below spillway
Existing Embankment	Freeboard (4.6 ft)		6.	2			
Outflow (gpm)					Х		
EROSION		LEADING CONTROL	UNDE	SEVERE TO SERVE			
Rills & Gullies on Em	bankment				Х		
Wave Erosion					Х		
Spillway Erosion					Х		
Burrows					Х		
Other					Х		
STRUCTURAL		但是非常自然表现的	BESSE.	<b>电影电影</b>	week aleas		
Differential Settling					Х		
Cracks or Slides					Х		
Seepage					Х		
Other_	THE CASE OF THE PARTY OF THE PA				X		
STRUCTURES		LECTRON SHIP	gwelen.		Children Spiller		
Principal Spillway							
Clogged Orifice					X		<del>-</del>
Clogged or Damag	ed Culvert			Х			
Damaged Headgate					NA		
Emergency Spillway							
Erosion					Х		
Riprap					Х		
Clogged or Damage	ed Culvert			X			
Other							
MAINTENACE	AND INCOME.	d sphaneters	KANA S	COSERS SEE	AND TO SHARE	THE RESERVE OF	<b>医安全性原因的现在分词 医克克克氏 医克克克氏病</b>
Maintenance Required					Х		
Maintenance Performe	ed				Х		
Additional Comments					v		

Additional Comments

Mining Area Date Inspected Impoundment NPDES ID No Owner's Rep	Yoast Mine(Seneca Coal Co) 10/17/2017 Pond #013 CO-0000221 D.P. 013 Miranda Kawcak	Facility Configuration Date Last Inspected Pond Location Site Location Inspector	8/17/2017 SEK NWK, Sec. 19, YSN, R87W 8.5 mi SE of Hayden, CO Jason Herden		Quarterly Impoundment Inspection Form	
		Mark o	r Write in Approp	iate Respon		
	FEATURE		PROBLEM		COMMENTS	
00110011		YES (At	pove) NO	(Below)		
GENERAL				(C/4810)		
Water Level (above or below principal spillway) Existing Embankment Freeboard (4.0 ft) Outflow (gpm)				X	water level 1.2 feet below outlet pipe	
		4		- U		
EROSION	SHARE WATER LESS ATTOMICS	NO Comments of the Comments of	STOREGIST NEWSFILM	X		
Rills & Gullies on Emb	ankment	ALERSON STREET, STREET	WITH THE PERSON OF THE PERSON	X		
Wave Erosion	MINSHELL			X	-	
Spillway Erosion		<del></del>		X	$\dashv$	
Burrows				X	$\dashv$	
Other				X		
STRUCTURAL						
Differential Settling				Х	The second secon	
Cracks or Slides				Х	$\neg$	
Seepage				Х	$\exists$	
Other		1100-1-1-100-1-100-1-1-100-1-1-100-1-1-100-1-1-100-1-1-100-1-1-100-1-1-100-1-100-1-1-100-1-1-100-1-1-100-1-1-100-1-1-100-1-1-100-1-1-100-1-1-100-1-1-100-1-1-100-1-1-100-1		Х		
STRUCTURES		Carlo de Carar anta		TELEVISION OF		
Principal Spillway						
Clogged Orifice				Х		
Clogged or Damage	d Culvert			X		
Damaged Headgate				NA		
Emergency Spillway		1				
Erosion				Χ		
Riprap	10.1			X	_	
	Clogged or Damaged Culvert			X		
Other MAINTENACE	COMMUNICATION CONTRACTOR		Caracatatanica erinantesa erinatu	X	CALIFORNIA DE L'EXPERIENCE DE	
MAINTENACE Maintenance Required	Productive Control of the Party	HAZIFUZINIA WANGISIZEE MAR				
Maintenance Required	4		_   -	X	$\dashv$	
Additional Comments				X	$\dashv$	

Mining Area Date Inspected Impoundment NPDES ID No	10/17/2017 Pond #014 CO-0000221 D.P. 014	Facility Configuration  Date Last Inspected  Pond Location  Site Location	spected         8/17/2017           ation         NEK SWK, Sec. 19, T5N, R87W           stion         8.5 mi SE of Hayden, CO		Quarterly Impoundment Inspection For			
Owner's Rep	Miranda Kawcak	Inspector	The second secon					
	FEATURE	Mark	or Write in	Appropriate R	ponse:			
	FEATURE	VEC	PROBLEM YES (Above) NO (Belo			COMMENTS		
GENERAL	CHORD WAS A PRODUCT THAN SOME SHAPE OF	1E3	(ABOVE)	IAO (Beig	CAN DOLD NOW HAVE IN JUNE 18 SEPTION			
	below principal spillway)			V		level 1 1 feet belev outlet else		
	Existing Embankment Freeboard (6.8 ft)		5.8	X	water	level 1.1 feet below outlet pipe		
Outflow (gpm)	recoond (o.o it)	<del></del>	7.0	х				
EROSION	BACK ON THE TRANSPORT	CHERON WASSENSON OF THE PARTY O				TOTAL CONTROL OF THE PARTY OF T		
Rills & Gullies on Em	bankment			X		The state of the s		
Wave Erosion				X	~			
Spillway Erosion			V-	X	$\overline{}$			
Burrows		-		Х	<del></del> j			
Other				Х				
STRUCTURAL			HIGH HIS KOUND	44.24.2				
Differential Settling				Х				
Cracks or Slides				Х				
Seepage			X					
Other	Andrew Committee of the		X		Parameter and the state of the			
STRUCTURES	ARTHUR OF ALLEGATION		CHILADUSTO		Passanto Esta de Localdo			
Principal Spillway								
Clogged Orifice				X				
Clogged or Damage				X				
Damaged Headgate				NA.				
Emergency Spillway				T				
Erosion				X	—			
Riprap Clogged or Damage	of Culture			X				
Other	u Cuiveit			X				
MAINTENACE	STATE BEST FELLES SEE: OR SEED FOR STATE	THE ROLL WITH COMMERCE VALUE OF THE PARTY OF	STATE AND DESCRIPTION	Andrewski somboroski som	EPRI APRISATION RESULTE AND ACTIVIDATES	N. CANDON MICHAEL CO. L. C.		
Maintenance Required	A STATE OF THE PARTY OF T	THE RESERVE THE PROPERTY OF THE PERSON NAMED IN COLUMN TO SERVE TH	and a second	X				
Maintenance Performe				x				
Additional Comments	<del>-</del>			X	~ <del>~~</del>			

Mining Area Date Inspected Impoundment NPDES ID No Owner's Rep	Yoast Mine(Seneca Coal Co) 10/18/2017 Stock Tank ST-1 N/A Miranda Kawcak	Facility Configuration Date Last Inspected Pond Location Site Location Inspector	8/17/2017 SWX Sec. 20, T5N, R87W 8.5 ml SE of Hayden, CO Jason Herden		Quarterly Impoundment Inspection Form	
	FEATURE	Mark oi	r Write in Ap	propriate I	Response:	COMMEDITO
	FEATURE	VEC /AL	PROBLEM YES (Above) NO (Below		3	COMMENTS
GENERAL	Jako Koron	163 (70	marana and a second	NO (Del	ow)	
- Carlotte de la Carl	below principal spillway)		A SEAL COLUMN CO	X		Water level is 2.0 feet below spillway
EROSION		STEIN CHENNEY IN	PATRICIA PARAMETER	SEPTEMBER 1	THE CALL STREET	
Rills & Gullies on Em	bankment			Х	T T	The state of the s
Wave Erosion				Х		
Spillway Erosion				Х		
Burrows				Х		
Other				Х		
STRUCTURAL		AND THE ROLL AND ADDRESS.		CONTRACTOR OF	RMENARY IN	THE STATE OF THE PARTY OF THE P
Differential Settling			C. DINK CS FCS	Х		
Cracks or Slides				Х		
Seepage				Х		
Other				Х		
STRUCTURES		Consultation and Consultation	BRACESSO)	MEDITOR TH	TONE TO SECTION	
Principal Spillway						
Clogged Orifice				NA NA		
Clogged or Damage				NA		
Damaged Headgate	<u> </u>			NA		
Emergency Spillway		<del></del>				
Erosion				X		
Riprap	101			X		
Clogged or Damage	a Cuivert			NA.		
Other MAINTENACE	Mathematica and the production of the states	AND COLOR OF ADDRESS ASSESSMENT AND ADDRESS ASSESSMENT ADDRESS ASSESSMENT ADDRESS ASSESSMENT ADDRESS ASSESSMENT ADDRESS ASSESSMENT ADDRESS ASSESSMENT ASSESSMENT ADDRESS ASSESSMENT ADDRESS ASSESSMENT A	LINE RECEIPTION OF THE	X		
Maintenance Required				easimpling	Name of the Party of the	
Maintenance Required		<u> </u>		X		
Additional Comments	iu .	<u> </u>		X		

## **IMPOUNDMENT INSPECTION LOG**

## **JOB DATA**

JOB NAME: PEC Hydrologic Support Services	CLIENT: Peabody	LOCATION: Routt County, CO
JOB(s): 2016-037 T1-SCC, T2-PSCM		

## **FLOW DATA**

SITEID	COMPANY	MINE	DATE	ТІМЕ	WATER LEVEL (FT)	OUTFLOW (GPM)	OBSERVATIONS	MAINTENANCE (Y/N)
002	Sage Creek	Sage Creek	10-17-17	15:10	0.09	127, 1		N
003	Sage Creek	Sage Creek	jo-17-17	14:45	0,08	7,2	animal burrows andam	N
004	Sage Creek	Sage Creek	10-17-17	15:35	0,36	30,		N
Lower Sump	Sage Creek	Sage Creek	10-18-17	09:35	0.05	18		N
PECOCO	Sage Creek	Sage Creek	10-18-17	10:15	0.07	51		N
Portal Sump 1	Sage Creek	Sage Creek	10-18-17	09:45	0,03	1		N
Portal Sump 2	Sage Creek	Sage Creek	6-18-17	09:55			not pumping	N
Spill Control 2	Sage Creek	Sage Creek	10-18-17	09:25	_	-	DA	N
Truck Wash	Sage Creek	Sage Creek	10-18-17	09:15	_		Dry	N
Upper Sump	Sage Creek	Sage Creek	10-18-17	10:35	0.05	44		N
001	Seneça	Hayden Guich	10-18-17	08:00	-3,3		NO Flow	N
002	Seпеса	Hayden Gulch	10-18-17	08:10	<b>—</b>	_	DIA	N
005	Seneca	Seneca II West	10-17-17	/1:05	-1.9	_	NO Flow springed from	
006	Seneca	Seneca II West	10-17-17	08:55	0.15	32,7	big sluffans, side, wima	1
009	Seneca	Seneca II West	דו-דו-ט	11:35	-3.4		NO Flow symphological	N
015	Seneca	Seneca II West	10-17-17	13:00	-1.6	_		
016	Seneca	Seneca II West	10-17-17	09:15	0,10	21.6	small legt under flame	4/
017	Seneca	Seneca II West	はーローロ	09:40	0.06	8,0	ader leaking under flume	X
T-1	Seneca	Seneca II West	10-17-17	09:05	_	-	מים	N
T-18	Seneca		10-17-17	10:50	-1.6		NO FEW	N
T-2	Seneca	Seneca II West	10-17-17	10:45	-2,3		NO Flow	N
T-20	Seneca	Seneca II West	10-17-17	10:55	-7.6		NO FION	N
T-22	Seneca	Seneca II West	10-17-17	1(:00	-0,9		NO Flow	N
T-24	Seneca			11:15	_	~	Pro	N
T-25	Seneca			09:50	_		Sone	N
T-26	Seneca		6-17-17	6:20	-2.0	_	NO Flow	N
900			10-17-17	14:20	0.7	15.5	outlet pipe slightly rism	N

WWCengineering IMPOUNDMENT INSPECTION LOG

STEID	COMPANY	MINE	DATE	ПМЕ	WATER LEVEL (FT)	OUTFLOW (GPM)	OBSERVATIONS	MAINTENANCE (Y/N)
T-27	Seneca	Seneca II West	10-17-17	10:25	-1,2	_	NO Flow	N
T-3	Seneca	Seneca II West	10-17-17	10:40	-1.6	~	NO FLOW	N
T-5	Seneca	Seneca II West	10-17-17	10:05	-2.0		No Flow	N
010	Seneca	Yoast	10-17-17	16:45	0.15	23,5	Stand Diperusied through Heiti	<sub>15</sub> y
011	Seneca	Yoast	10-18-17	08:45	-7.0		NO Flow	N
011A	Seneca	Yoast	10-17-17	17:00	-7,3	1	NO Flow	N
012	Seneca	Yoast	10-17-17	12:30	0.04	25.8	crosion behind bunder flume	У
012A	Seneca	Yoast	10-17-17	12:45	-0,9	1	NO Flow	N
013	Seneca	Yoast	10-17-17	IA:55	-0.9	)	NO FLOW	N
014	Seneca	Yoast	ローアンフ	13:10	~1.1	1	No Flow	N
ST-1	Seneca	Yoast	10-18-17	07:10	- 7.0	ĵ	NO Flou	$\sim$

CLIMATIC CONDITIONS:

FIELD PERSONNEL: JH	FIELD PERSONNEL SIGNATURE:	
NOTES	,	
All and the second seco	SAME CONTROL OF THE CONTROL OF THE SAME CONTRO	
OBS (Decided to		
		100000
	5 x C U 10 V - 30 - 30 - 30 - 30 - 30 - 30 - 30 -	
- 888 - 10 san 10 s		