

Seneca Coal Company

April 6, 2020

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

RE: Seneca II W Mine, Permit C-82-057, First Quarter 2020 IIR

Dear Robin:

In accordance with Rule 4.05.9(17), please find enclosed the Seneca II West Mine Impoundment Inspection Reports (IIR) and Impoundment Inspection Log (IIL) for Ponds:

Pond #005, Pond #006, Pond #009, Pond #015, Pond #016, Pond #017

and Stock Tanks:

 Stock Tank T-2, Stock Tank T-3, Stock Tank T-5, Stock Tank T-18, Stock Tank T-20, Stock Tank T-22, Stock Tank T-24, Stock Tank T-25, Stock Tank T-26 and Stock Tank T-27.

Please contact me with any comments and/or questions.

Sincerely,

Miranda Kawcak Environmental Manager

Enclosure: Seneca II W IIR

Mining Area	Seneca II West Mine	Facility Co	onfiguration	Cross	S-Vally Pond						
Date Inspected	3/2/2020	Date Las	t Inspected	10,	/23/2019						
Impoundment	Pond #005	Pond 1	Location NW% SW%, Sec. 10, T5N, R88W		Qua	rterly Impoundment Inspection Form					
NPDES ID No	CMLRD Permit No. C-82-057	Site L	ocation	8 mi. S	of Hayden, CO	•					
Owner's Rep	Miranda Kawcak	Insp	pector	Jaso	on Herden						
			Response	:							
	FEATURE				BLEM		COMMENTS				
			YES (At	oove)	NO (Belo	w)					
GENERAL											
,	below principal spillway)				X		Water level 1.5 feet below spillway				
Existing Embankment	Freeboard (7.4 ft)		8.4								
Outflow (gpm)					Х		0				
EROSION											
Rills & Gullies on Em	bankment				Х		_				
Wave Erosion					X						
Spillway Erosion					Х						
Burrows					X						
Other					Х						
STRUCTURAL		1									
Differential Settling Cracks or Slides		-			X		-				
Seepage		ŀ			X		-				
Other		F			X		-				
STRUCTURES					X						
Principal Spillway											
Clogged Orifice					Х						
Clogged or Damage	ed Culvert	-			X						
Damaged Headgate		ŀ			NA						
Emergency Spillway		ı.					'				
Erosion					Х						
Riprap		ļ			Х						
Clogged or Damage	d Culvert	ļ			Х		1				
Other					Х		<u>] </u>				
MAINTENACE											
Maintenance Required					Х		Snow Covered				
Maintenance Performe	ed		<u> </u>		Х						
Additional Comments			Х								

Mining Area	Seneca II West Mine	Facility C	onfiguration	Cross	-Vally Pond							
Date Inspected	3/2/2020	Date Las	st Inspected	10,	/23/2019							
Impoundment	Pond #006	Pond	Location	NW¼ NW¼, Sec. 22, T5N, R88W		Quai	rterly Impoundment Inspection Form					
NPDES ID No	CO-0000221 D.P. 006	Site I	Location	8 mi. S of Hayden, CO			-					
Owner's Rep	Miranda Kawcak	Ins	pector	Jaso	on Herden							
Mark or Write in Appropriate Response:												
	FEATURE				DBLEM		COMMENTS					
			YES (Al	oove)	NO (Belo	w)						
GENERAL												
	r below principal spillw	ay)	X				water level 0.1 feet above spillway					
Existing Embankment	Freeboard (7.5 ft)		7.5									
Outflow (gpm)			Х				48.6gpm					
EROSION					1							
Rills & Gullies on Em	ıbankment				Х							
Wave Erosion					Х							
Spillway Erosion					Х							
Burrows					X							
Other			X									
STRUCTURAL					T							
Differential Settling					Х							
Cracks or Slides			X									
Seepage			X									
Other					X							
STRUCTURES												
Principal Spillway		-		-		- 1						
Clogged Orifice	101				X							
Clogged or Damag					X							
Damaged Headgate	2				NA							
Emergency Spillway					v							
Erosion					X							
Riprap Clogged or Damaged Culvert				X								
	ea Curvert				X							
Other MAINTENACE					X							
	1				V		Cluff on couth side above named on hill assessmenth and office					
Maintenance Required Maintenance Perform				X			Sluff on south side above pond on hill, currently not affecting					
Additional Comments			V		X		pond. Will continue to monitor. Snow Covered					
Additional Comments			X									

Mining Area	Seneca II West Mine	Facility C	Configuration	Cross-	Vally Pond					
Date Inspected	3/2/2020	Date La	st Inspected	10/	23/2019					
Impoundment	Pond #009	Pond	Location	SE¼ SW¼, Se	SE¼ SW¼, Sec. 11, T5N, R88W		rterly Impoundment Inspection Form			
NPDES ID No	CO-0000221 D.P. 009	Site 1	Location	8 mi. S o	8 mi. S of Hayden, CO		- · · · · · · · · · · · · · · · · · · ·			
Owner's Rep	Miranda Kawcak	Ins	pector		Jason Herden					
•			Marl	or Write	in Appropriat	e Respons	se:			
	FEATURE				BLEM	•	COMMENTS			
			YES (At	ove)	NO (Bel	ow)				
GENERAL										
Water Level (above or	below principal spillwa	ay)			Х		Water level 3.5 feet below top of pipe			
Existing Embankment	Freeboard (6.9 ft)		10.4	1						
Outflow (gpm)					Х		0			
EROSION										
Rills & Gullies on Em	bankment				Х					
Wave Erosion					Х					
Spillway Erosion					Х					
Burrows				X						
Other					Х					
STRUCTURAL										
Differential Settling					X					
Cracks or Slides					X					
Seepage					X					
Other					X					
STRUCTURES										
Principal Spillway										
Clogged Orifice					Х					
Clogged or Damag					Х					
Damaged Headgate	2				NA					
Emergency Spillway			1							
Erosion					X					
Riprap					X					
Clogged or Damage	ed Culvert				X					
Other					Х					
MAINTENACE			1							
Maintenance Required					Х		Snow Covered			
Maintenance Performe					Х					
Additional Comments			X							

Mining Area	Seneca II West Mine	Facility (Configuration	Cross-	-Vally Pond		
Date Inspected	3/2/2020	Date La	st Inspected				
Impoundment	Pond #015	Pond	•		ec. 23, T5N, R88W	Qua	rterly Impoundment Inspection Form
NPDES ID No	CO-0000221 D.P. 015	Site 1	Location	8 mi. S o	of Hayden, CO		<i>y</i> 1
Owner's Rep	Miranda Kawcak	Ins	spector	Jaso	n Herden		
			Marl	or Write	in Appropriat	e Respons	se:
	FEATURE			PRO	BLEM		COMMENTS
			YES (At	oove)	NO (Belo	ow)	
GENERAL							
	r below principal spillwa	ay)	X				water level 0.04 feet above spillway
Existing Embankment	Freeboard (4.0 ft)		4.0				
Outflow (gpm)			X				3.4
EROSION			_				
Rills & Gullies on Em	bankment				Х		
Wave Erosion					Х		
Spillway Erosion					Х		
Burrows					Х		
Other					Х		
STRUCTURAL							
Differential Settling					Х		
Cracks or Slides					Х		
Seepage					Х		
Other					Х		
STRUCTURES							
Principal Spillway			T	1	Т		
Clogged Orifice					Х		
Clogged or Damag					Х		
Damaged Headgate	e				NA		
Emergency Spillway			Т		I		
Erosion					X		
Riprap	101				X		
Clogged or Damage	ed Culvert				X		
Other			L		Х		
MAINTENACE	1				.,		C
Maintenance Required					X		Snow Covered
Maintenance Performe					Х		
Additional Comments			X				

Mining Area	Seneca II West Mine	Facility (Configuration	Cross-V	ally Pond					
Date Inspected	3/2/2020	Date La	st Inspected	10/2	10/23/2019					
Impoundment	Pond #016	Pond	Location	NE¼ SE¼, Sec	. 27, T5N, R88W	Quai	rterly Impoundment Inspection Form			
NPDES ID No	CO-0000221 D.P. 016	Site	Location	8 mi. S of	Hayden, CO	•				
Owner's Rep	Miranda Kawcak	Ins	spector	Jason	son Herden					
			Mark	or Write in Appropriate Response:						
	FEATURE			PROB			COMMENTS			
				bove)	NO (Be	elow)				
GENERAL										
Water Level (above o	r below principal spillw	ay)	Х				water level 0.05 feet above spillway			
Existing Embankmen	t Freeboard (6.8 ft)		6.8	}						
Outflow (gpm)			X				53.6			
EROSION										
Rills & Gullies on En	nbankment				Х					
Wave Erosion					X					
Spillway Erosion					X					
Burrows					X					
Other					Х					
STRUCTURAL										
Differential Settling					Х					
Cracks or Slides					Х					
Seepage					X					
Other					X					
STRUCTURES										
Principal Spillway			1							
	Clogged Orifice				Х					
Clogged or Damaged Culvert				X						
Damaged Headgat					NA					
Emergency Spillway			1							
Erosion					X					
Riprap	101				X					
Clogged or Damag	ed Culvert				Х					

Χ

Χ

Χ

Χ

Snow Covered

Other

MAINTENACE

Maintenance Required

Maintenance Performed Additional Comments

Mining Augo	Seneca II West Mine	Eagility (Configuration	Cross	Vally Dand							
Mining Area			~		-Vally Pond							
Date Inspected	3/2/2020				/24/2019	0						
Impoundment	Pond #017		Location		Sec. 34, T5N, R88W	Qual	arterly Impoundment Inspection Form					
NPDES ID No	CO-0000221 D.P. 017		Location		of Hayden, CO							
Owner's Rep	Miranda Kawcak	Ins	spector		n Herden	_						
Mark or Write in Appropriate Response: FEATURE PROBLEM COMMENTS												
	FEATURE		77770 ///				COMMENTS					
			YES (At	oove)	NO (Bel	ow)						
GENERAL	 		1		T							
,	r below principal spilly	ay)	X				water level 0.03 feet above spillway					
Existing Embankmen	t Freeboard (3.1 ft)		3.1									
Outflow (gpm)			X				2.7					
EROSION	1 1		1									
Rills & Gullies on En	nbankment				Х							
Wave Erosion					X							
Spillway Erosion					X							
Burrows Other					X							
STRUCTURAL												
Differential Settling			I		Х							
Cracks or Slides					X							
Seepage												
Other			X									
STRUCTURES					Λ							
Principal Spillway												
Clogged Orifice					Х							
Clogged or Damag	ed Culvert				X							
Damaged Headgat					NA NA							
Emergency Spillway	~		1		I INA							
Erosion					Х							
	Riprap				X							
* *	Clogged or Damaged Culvert				X							
Other					X							
MAINTENACE												
Maintenance Require	d				х		Snow Covered					
Maintenance Perform					Х							

Additional Comments

Mining Area	Seneca II West Mine	Facility C	Configuration	Sto	Stockpond		
Date Inspected	3/2/2020	Date La	st Inspected	10/	23/2019		
Impoundment	Stock Tank T-2	Pond	Location NW4SW4,		Sec 22, T5N, R88W	Qua	rterly Impoundment Inspection Form
NPDES ID No	N/A	Site 1	Location	8 mi S o	of Hayden, CO		, ,
Owner's Rep	Miranda Kawcak	Ins	spector	Jaso	n Herden		
_			Mark	or Write	in Appropriat	e Respons	e:
	FEATURE			PRO	BLEM		COMMENTS
			YES (Ab	ove)	NO (Bel	ow)	
GENERAL							
Water Level (above or	below principal spillwa	ay)			X		
EROSION							
Rills & Gullies on Em	bankment				X		
Wave Erosion					X		
Spillway Erosion					Х		
Burrows					Х		
Other					Х		
STRUCTURAL			T				
Differential Settling					Х		
Cracks or Slides					Х		
Seepage					Х		
Other					Х		
STRUCTURES							
Principal Spillway			1				
Clogged Orifice					NA		
Clogged or Damage					NA		
Damaged Headgate	:				NA		
Emergency Spillway			T				
Erosion					X		
Riprap	1.0.1				X		
Clogged or Damage	d Culvert				NA		
Other					Х		
MAINTENACE			I				N
Maintenance Required					X		No access due to winter conditions
Maintenance Performe	D				Х		
Additional Comments			Х				

Mining Area	Seneca II West Mine	Facility C	Configuration	Sto	ckpond						
Date Inspected	3/2/2020		st Inspected		23/2019						
Impoundment	Stock Tank T-3	Pond	Location	NW¼SE¼, S	NW¼SE¼, Sec 22, T5N, R88W		rterly Impoundment Inspection Form				
NPDES ID No	N/A	Site 1	Location	8 mi S of	f Hayden, CO	Z					
Owner's Rep	Miranda Kawcak	Ins	spector		n Herden						
•			Mark	or Write	in Appropriat	e Respons	e:				
	FEATURE				BLEM	-	COMMENTS				
			YES (At	oove)	NO (Bel	ow)					
GENERAL											
Water Level (above or	below principal spillwa	ay)			Х						
EROSION											
Rills & Gullies on Em	bankment				Х						
Wave Erosion					Х						
Spillway Erosion					Х						
Burrows					Х						
Other					Х						
STRUCTURAL			T								
Differential Settling					Х						
Cracks or Slides					X						
Seepage				X							
Other STRUCTURES					Х						
Principal Spillway											
Clogged Orifice			1		NA						
Clogged or Damage	ad Culvert				NA NA						
Damaged Headgate					NA NA						
Emergency Spillway	'		ı		IVA						
Erosion Erosion					Х						
Riprap					X						
Clogged or Damage	d Culvert				NA						
Other					X						
MAINTENACE											
Maintenance Required					Х		No access due to winter conditions				
Maintenance Performe	d				Х						
Additional Comments			X								

Mining Area	Seneca II West Mine	Facility C	Configuration	Stocl	kpond		
Date Inspected	3/2/2020	Date Las	st Inspected	10/23	3/2019		
Impoundment	Stock Tank T-5	Pond	Location	NE¼ Sec 22, T5N, R88W		Qua	rterly Impoundment Inspection Form
NPDES ID No	N/A	Site I	Location	8 mi S of H	Hayden, CO	•	
Owner's Rep	Miranda Kawcak	Ins	pector	Jason	Herden		
			Mark o		n Appropri	ate Respo	nse:
	FEATURE			PROB			COMMENTS
			YES (At	oove)	NO (B	elow)	
GENERAL					,		
	r below principal spillw	vay)			Х		
EROSION			T		T		
Rills & Gullies on Em	bankment				Х		
Wave Erosion					Х		
Spillway Erosion					Х		
Burrows					Х		
Other					Х		
STRUCTURAL			ı		Т		
Differential Settling					Х		
Cracks or Slides					Х		
Seepage					Х		
Other					Х		
STRUCTURES							
Principal Spillway			1				
Clogged Orifice	101				N/		
Clogged or Damag					N/		
Damaged Headgate	e				N/	4	
Emergency Spillway Erosion			I		Х		
Riprap					X		
Clogged or Damage	ad Culvert				N/		
Other	ou Cuiveit				X		
MAINTENACE					^		
Maintenance Required	1		1		Х		No access due to winter conditions
Maintenance Perform					X		No decess due to writer conditions
Additional Comments			Х				
			1		<u> </u>		

Mining Area	Seneca II West Mine	Facility C	Configuration	Sto	ckpond								
Date Inspected	3/2/2020	Date La	st Inspected	10/23/2019									
Impoundment	Stock Tank T-18	Pond	Location	NW¼NE¼, Sec 15, T5N, R88W		Qua	rterly Impoundment Inspection Form						
NPDES ID No	N/A	Site 1	Location	8 mi S of	Hayden, CO	•							
Owner's Rep	Miranda Kawcak	Ins	pector	Jasor	n Herden								
	Mark or Write in Appropriate Response:												
	FEATURE			PROI	BLEM		COMMENTS						
			YES (At	oove)	NO (Bel	ow)							
GENERAL													
`	below principal spillw	ay)			X								
EROSION													
Rills & Gullies on Em	bankment				X								
Wave Erosion					Х								
Spillway Erosion					X								
Burrows					X								
Other				X									
STRUCTURAL													
Differential Settling			X										
Cracks or Slides				Х									
Seepage			X										
Other			X										
STRUCTURES													
Principal Spillway			1										
Clogged Orifice					NA								
Clogged or Damage					NA								
Damaged Headgate)				NA								
Emergency Spillway			ı										
Erosion					X								
	Riprap				X								
Clogged or Damaged Culvert				NA NA									
Other					Х								
MAINTENACE			I				N						
Maintenance Required				X			No access due to winter conditions						
Maintenance Performe	ea				Х								
Additional Comments			X										

Mining Area	Seneca II West Mine	Facility C	onfiguration	Sto	Stockpond		
Date Inspected	3/2/2020	Date Las	st Inspected		10/23/2019		
Impoundment	Stock Tank T-20	Pond	Location	NW¼NE¼, S	ec 15, T5N, R88W	Oua	rterly Impoundment Inspection Form
NPDES ID No	N/A	Site I	Location	8 mi S of	f Hayden, CO	•	
Owner's Rep	Miranda Kawcak	Ins	pector	Jaso	n Herden		
			Mark	or Write	in Appropriat	e Respons	se:
	FEATURE			PRO	BLEM		COMMENTS
			YES (Ab	oove)	NO (Bel	ow)	
GENERAL							
Water Level (above or	below principal spillw	ay)			Х		
EROSION							
Rills & Gullies on Em	bankment				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 Damage					NA		
Damaged Headgate)				NA		
Emergency Spillway							T
Erosion					Х		
* *	Riprap				Х		
Clogged or Damaged Culvert					NA		
Other					Х		
MAINTENACE							
Maintenance Required				X			No access due to winter conditions
Maintenance Performe	ed				Х		
Additional Comments			X				

Mining Area	Seneca II West Mine	Facility C	Configuration	Sto	Stockpond		
Date Inspected	3/2/2020	Date La	st Inspected	10/2	23/2019		
Impoundment	Stock Tank T-22	Pond	Location	SE¼SW¼, Se	SE%SW%, Sec 10, T5N, R88W		rterly Impoundment Inspection Form
NPDES ID No	N/A	Site 1	Location	8 mi S of Hayden, CO		•	v 1
Owner's Rep	Miranda Kawcak	Ins	pector	Jasor	n Herden		
			Mark	or Write	in Appropria	e Respons	se:
	FEATURE			PROI	BLEM		COMMENTS
			YES (At	oove)	NO (Bel	ow)	
GENERAL							
Water Level (above or	below principal spillwa	ay)			Х		
EROSION							
Rills & Gullies on Em	bankment				X		
Wave Erosion					X		
Spillway Erosion					X		
Burrows					X		
Other					Х		
STRUCTURAL							
Differential Settling					X		
Cracks or Slides			X				
Seepage			X				
Other				Х			
STRUCTURES							
Principal Spillway							
Clogged Orifice					NA		
Clogged or Damage					NA		
Damaged Headgate					NA		
Emergency Spillway							
Erosion					Х		
	Riprap				Х		
Clogged or Damaged Culvert				NA			
Other					Х		
MAINTENACE			1				
Maintenance Required	<u> </u>				Х		No access due to winter conditions
Maintenance Performe	d				Х		
Additional Comments			X				

Mining Area	Seneca II West Mine	Facility C	Configuration	Sto	ckpond				
Date Inspected	3/2/2020		st Inspected	10/23/2019					
Impoundment	Stock Tank T-24		Location	SW¼NE¼, S	ec 9, T5N, R88W	Onai	rterly Impoundment Inspection Form		
NPDES ID No	N/A		Location	8 mi S of Hayden, CO		Quu	terry impoundment inspection I office		
Owner's Rep	Miranda Kawcak	Ins	spector	Jason Herden					
					in Appropria	te Respons	se:		
FEATURE			1	PROBLEM			COMMENTS		
			YES (Ab	ove)	NO (Be	low)			
GENERAL									
Water Level (above or	below principal spillw	ay)			Х				
EROSION									
Rills & Gullies on Em	bankment				Х				
Wave Erosion					Х				
Spillway Erosion					X				
Burrows				X					
Other	Other			X					
STRUCTURAL									
Differential Settling				X					
Cracks or Slides				X					
	Seepage			X					
	Other				Х				
STRUCTURES									
Principal Spillway			T						
Clogged Orifice			NA NA						
Clogged or Damag				NA					
Damaged Headgate	<u> </u>			NA					
Emergency Spillway			1	1					
	Erosion			X					
Riprap				X					
Clogged or Damaged Culvert				NA					
Other					Х				
MAINTENACE			1		.,		Nie anna die ta estata ann diti an		
Maintenance Required Maintenance Performe				X			No access due to winter conditions		
Additional Comments	ea		X	X					
Additional Comments			X						

Mining Area	Seneca II West Mine	Facility C	Facility Configuration		Stockpond			
Date Inspected	3/2/2020	Date Las	st Inspected	10/2	23/2019			
Impoundment	Stock Tank T-25	Pond	Location	SW¼NE¼, Se	W%NE%, Sec 34, T5N, R88W		rterly Impoundment Inspection Form	
NPDES ID No	N/A	Site I	Location	8 mi S of	Hayden, CO			
Owner's Rep	Miranda Kawcak	Ins	pector	Jasor	n Herden			
			Mark		in Appropriat	e Respons	se:	
	FEATURE			PROF	BLEM		COMMENTS	
			YES (Ab	ove)	NO (Bel	ow)		
GENERAL								
Water Level (above or	below principal spillw	ay)			N/A			
EROSION								
Rills & Gullies on Em	bankment				N/A			
Wave Erosion					N/A			
Spillway Erosion					N/A			
Burrows					N/A			
Other				N/A				
STRUCTURAL				,				
	Differential Settling			N/A				
	Cracks or Slides			N/A				
	Seepage			N/A				
	Other			N/A				
STRUCTURES								
Principal Spillway				1	N/A			
	Clogged Orifice							
	Clogged or Damaged Culvert			N/A				
	Damaged Headgate				N/A			
Emergency Spillway				ı				
Erosion					N/A			
* *	Riprap			N/A				
Clogged or Damaged Culvert				N/A				
Other					N/A			
MAINTENACE				1				
	Maintenance Required				X		DAM REMOVED FALL 2011, REBUILT IN 2012 AS A RUNOFF	
Maintenance Performe	ed .			X			CONTROL STURCURE (PM1-A3)	
Additional Comments			Х	ļ				

Mining Area	Seneca II West Mine	Facility Configuration		Stockpond					
Date Inspected	3/2/2020	Date La	Date Last Inspected		10/23/2019				
Impoundment	Stock Tank T-26	Pond	Location	NE¼NW¼, S	iec 35, T5N, R88W	Oua	rterly Impoundment Inspection Form		
NPDES ID No	N/A	Site 1	Location	8 mi S of	of Hayden, CO		J P		
Owner's Rep	Miranda Kawcak	Ins	pector	Jasoi	n Herden				
•			Mark	or Write	in Appropriat	e Respons	se:		
	FEATURE			PRO	BLEM		COMMENTS		
			YES (At	oove)	NO (Bel	ow)			
GENERAL	GENERAL								
Water Level (above or	below principal spillw	ay)			Х				
EROSION									
Rills & Gullies on Em	bankment				Х				
Wave Erosion					Х				
Spillway Erosion					Х				
Burrows					Х				
Other					Х				
STRUCTURAL									
	Differential Settling			Х					
	Cracks or Slides			X					
	Seepage			X					
	Other			X					
STRUCTURES									
Principal Spillway			ı		ı				
Clogged Orifice			N						
Clogged or Damage			NA						
	Damaged Headgate			NA					
Emergency Spillway			ı		T				
Erosion			X						
Riprap			X						
Clogged or Damaged Culvert			NA NA						
Other					X				
MAINTENACE	•		I				N		
Maintenance Required					X		No access due to winter conditions		
Maintenance Performe				X					
Additional Comments			X						

Date Inspected 3/2/2020 Stock Tank T-27 Pond Location N/A Site Location Site Loc	orm						
NPDES ID No Owner's Rep Miranda Kawcak Inspector Jason Herden	orm						
NPDES ID No Owner's Rep Miranda Kawcak Inspector Jason Herden							
Mark or Write in Appropriate Response: FEATURE PROBLEM COMMENTS YES (Above) NO (Below) GENERAL Water Level (above or below principal spillway) N/A EROSION Rills & Gullies on Embankment N/A Wave Erosion N/A Spillway Erosion N/A Burrows N/A Other N/A STRUCTURAL Differential Settling N/A Cracks or Slides N/A Seepage N/A							
FEATURE PROBLEM COMMENTS GENERAL Water Level (above or below principal spillway) N/A EROSION N/A Rills & Gullies on Embankment N/A Wave Erosion N/A Spillway Erosion N/A Burrows N/A Other N/A STRUCTURAL N/A Differential Settling N/A Cracks or Slides N/A Seepage N/A							
YES (Above) NO (Below) GENERAL Water Level (above or below principal spillway) N/A EROSION N/A Rills & Gullies on Embankment N/A Wave Erosion N/A Spillway Erosion N/A Burrows N/A Other N/A STRUCTURAL N/A Differential Settling N/A Cracks or Slides N/A Seepage N/A							
GENERAL Water Level (above or below principal spillway) N/A EROSION N/A Rills & Gullies on Embankment N/A Wave Erosion N/A Spillway Erosion N/A Burrows N/A Other N/A STRUCTURAL N/A Differential Settling N/A Cracks or Slides N/A Seepage N/A							
Water Level (above or below principal spillway) N/A EROSION N/A Rills & Gullies on Embankment N/A Wave Erosion N/A Spillway Erosion N/A Burrows N/A Other N/A STRUCTURAL N/A Differential Settling N/A Cracks or Slides N/A Seepage N/A							
EROSION Rills & Gullies on Embankment N/A Wave Erosion N/A Spillway Erosion N/A Burrows N/A Other N/A STRUCTURAL Differential Settling Cracks or Slides N/A Seepage N/A							
Rills & Gullies on Embankment N/A Wave Erosion N/A Spillway Erosion N/A Burrows N/A Other N/A STRUCTURAL Differential Settling Cracks or Slides N/A Seepage N/A							
Wave Erosion N/A Spillway Erosion N/A Burrows N/A Other N/A STRUCTURAL N/A Differential Settling N/A Cracks or Slides N/A Seepage N/A	i						
Spillway Erosion N/A Burrows N/A Other N/A STRUCTURAL N/A Differential Settling N/A Cracks or Slides N/A Seepage N/A	l.						
Burrows N/A Other N/A STRUCTURAL N/A Differential Settling N/A Cracks or Slides N/A Seepage N/A	ļ						
Other N/A STRUCTURAL N/A Differential Settling N/A Cracks or Slides N/A Seepage N/A	ļ						
STRUCTURAL Differential Settling N/A Cracks or Slides N/A Seepage N/A	ļ						
Differential Settling Cracks or Slides N/A Seepage N/A							
Cracks or Slides N/A Seepage N/A							
Seepage N/A	ļ						
	ļ						
IOther I N/A I							
STRUCTURES Drivering Seriller							
Principal Spillway Clogged Orifice N/A							
Clogged Office N/A Clogged or Damaged Culvert N/A							
Damaged Headgate N/A							
Emergency Spillway							
Erosion N/A							
Riprap N/A	ļ						
Clogged or Damaged Culvert N/A	ļ						
Other N/A	ļ						
MAINTENACE							
Maintenance Required X REBUILT IN 2012 AS A RUNOFF CONTROL STRUCTURE. I	o access						
Maintenance Performed X due to winter conditions	- 200000						
Additional Comments X							

IMPOUNDMENT INSPECTION LOG

JOB DATA

JOB NAME: PEC Hydrologic Support Services	CLIENT: Peabody	LOCATION: Routt County, CO			
JOB(s): 2018-005 T1-SCC, 2018-006 T1-PSCM					

FLOW DATA

FLOW DA	TA		I	1				
SITE ID	COMPANY	MINE	DATE	TIME	WATER LEVEL (FT)	OUTFLOW (GPM)	OBSERVATIONS	MAINTENANCE (Y/N)
002	Sage Creek	Sage Creek	3-23-2	08:10	0.47	77.6	Snow Covered, Flune laking	У
003	Sage Creek	Sage Creek	3-23-20	07:45	0.42	3.7		N
004	Sage Creek	Sage Creek	3-23-20	9:00	0.08	31.7	Snow Covered	N
Lower Sump	Sage Creek	Sage Creek	3-23-20	08:45	0.2	167	Show covered	N
PECOCO	Sage Creek	Sage Creek	3.23-20	10:40	0,3	126	Snow Covered	N
Portal Sump 1	Sage Creek	Sage Creek	3-23-20	07:45	_		Frozen	N
Portal Sump 2	Sage Creek	Sage Creek	3.23.20	101,00	-)	Floren	N
Spill Control 2	Sage Creek	Sage Creek	3.23-2	09:30	~		Snow Covered	N
Truck Wash	Sage Creek	Sage Creek	3 -23-20	08:33	_		Dry	N
Upper Sump	Sage Creek	Sage Creek	3-23-20	10'20	0.2	91	Snow Covered	N
001	Seneca	Hayden Gulch	3-2-20	12:00	_	_	snow covered	N
002	Seneca	Hayden Gulch	3.2.20	(2:10)	_	_	Snow Covered	N
005	Seneca	Seneca II West	3.2-8	11:46	5	~	SNOW COURTED	N
006	Seneca	Seneca II West	3-2-80	09:50	0.1	48.6	Snow Coveral	N
009	Seneca	Seneca II West	3-2-8	13:20	-3.5	~	Snow Covered	N
015	Seneca	Seneca II West	3-2-2	10:00	004	3.4	snow (overed	N
016	Seneca	Seneca II West	3-2-20	09!30	0.04	53.6	Snow Careled	N
017	Seneca	Seneca II West	3-2-20	09:10	0.03	3,7	snowcovered	N
T-1	Seneca	Seneca II West	_	_	~	_	winter	_
T-18	Seneca	Seneca II West	1	_	~		winter	-
T-2	Seneca	Seneca II West	_	_		-	winter	V
Т-20	Seneca	Seneca II West		_)	winter	~
Т-22	Seneca	Seneca II West		_	_	_	winter	_
T-24	Seneca	Seneca II West	_	~	_		Winter	-
Г-25	Seneca	Seneca II West	_	_	_	_	winter	_
T-26	Seneca	Seneca II West			-	_	Winter	_



SITE ID	COMPANY	MINE	DATE	TIME	WATER LEVEL (FT)	OUTFLOW (GPM)	OBSERVATIONS	MAINTENANCE (Y/N)
T-27	Seneca	Seneca II West	-	U	_	J	winter	
T-3	Seneca	Seneca II West	_	<u>_</u>	_	_	winter	Ŭ
T-5	Seneca	Seneca II West	_	_)		winter	ı
010	Seneca	Yoast	3-5-30	10:25	0.1	7,3	Snowcarried, p.pe Insted	У
011	Seneca	Yoast	3-2-20	13:40	-3.5	_	snow covered	N
011A	Seneca	Yoast	~	~	_	~	winter	1
012	Seneca	Yoast	3-5-80	10:40	0.1	53.8	Snowcered	N
012A	Seneca	Yoast	3-2-20	10:00	-1.5	~	snow covered	N
013	Seneca	Yoast	2-5-60	11:00	-1.0	_	Snow Covered	N
014	Seneca	Yoast	3-2-8	11:20	-18		Sua Coveled	N
ST-1	Seneca	Yoast	~	~	~	`	winter	

CLIMATIC CONDITIONS:							
FIELD PERSONNEL: TH	FIELD PERSONNEL SIGNATURE: And has						
NOTES	0						