

## **Seneca Coal Company**

April 21, 2017

Janet Binns Colorado Division of Reclamation, Mining and Safety 1313 Sherman Street Denver, CO 80203

RE: Seneca II W Mine, Permit C-82-057, 1Q17 IIR

Dear Janet:

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 #008, Pond #009, Pond #015, Pond #016, Pond #017

## and Stock Tanks:

Stock Tank T-1, 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.

No maintenance is required at this time. Please contact me with any comments and/or questions.

Sincerely,

Brian Watterson

Geologist

TNS/tns

Enclosure: Seneca II W IIR

Mining Area	Seneca II West Mine	Facility Configuration	n Cross	-Vally Pond					
Date Inspected	3/14/2017	Date Last Inspected	10	10/3/2016 NW¼ 5W¼, Sec. 10, T5N, R88W 8 mi. S of Hayden, CO					
Impoundment	Pond #005	Pond Location	NW% 5W%,			Quarterly Impoundment Inspection Form			
NPDES ID No	CMLRD Permit No. C-82-057	Site Location	8 mi. 5 d						
Owner's Rep	Brian Watterson	Inspector	Ch	ris Miller	1				
		Mai	k or Write i	in Appropriate	Response:				
	FEATURE		PRO	BLEM	- T	COMMENTS			
		YES (	Above)	NO (Belo	w)				
GENERAL									
Water Level (above or	below principal spillway)		X		١	Water level 0.02 feet above spillway			
Existing Embankment	Freeboard (7.4 ft)	7	.4						
Outflow (gpm)			X			16.4			
EROSION									
Rills & Gullies on Em	bankment			Х					
Wave Erosion			-	Х	7				
Spillway Erosion				X					
Burrows				х					
Other				Х					
STRUCTURAL									
Differential Settling				Х					
Cracks or Slides				X					
Seepage				X					
Other				X					
STRUCTURES									
Principal Spillway									
Clogged Orifice				X					
Clogged or Damage				X					
Damaged Headgate				NA					
Emergency Spillway									
Erosion				X		100 march 100 ma			
Riprap				X					
Clogged or Damage	d Culvert			X					
Other				X_					
MAINTENACE									
Maintenance Required				Х					
Maintenance Performe	ed			Х					
Additional Comments				Х					

Mining Area	Seneca II West Mine	Facility C	onfiguration	Cross	-Vally Pond			
Date Inspected	3/14/2017	Date Las	t Inspected	10	/3/2016			
Impoundment	Pond #006	Pond	Location	NW% NW%,	Sec. 22, T5N, R88W	Quai	rterly Impoundment Inspection Form	
NPDES ID No	CO-0000221 D.P. 006	Site I	Location	8 mi. 5 c	of Hayden, CO	£	Jan Paris Indiana	
Owner's Rep	Brian Watterson	Ins	pector		n Herden			
				k or Write	in Appropriate	e Respons	e:	
	FEATURE				BLEM		COMMENTS	
			YES (Above) NO (Below			w)		
GENERAL			E/OH WILLIAM					
Water Level (above or	r below principal spillw	ay)	Х				water level 0.04 feet above spillway	
Existing Embankment	Freeboard (7.5 ft)		7.5	;				
Outflow (gpm)			Х				39.9	
EROSION								
Rills & Gullies on Em	bankment				х			
Wave Erosion					x			
Spillway Erosion					X			
Burrows					X			
Other					Х			
STRUCTURAL								
Differential Settling					Х			
Cracks or Slides					X			
Seepage					X			
Other					X			
STRUCTURES								
Principal Spillway								
Clogged Orifice					X			
Clogged or Damag	•				X			
Damaged Headgate	e		l		NA NA			
Emergency Spillway			T				<u></u>	
Erosion					X			
Riprap					X		1	
Clogged or Damage	ed Culvert				X			
Other			L		X		•	
MAINTENACE			1		1			
Maintenance Require			ļ		X		Big sluff on S. side above pond on hill, currently not affecting pond	
Maintenance Perform					X			
Additional Comments	5		<u> </u>					

Mining Area	Seneca II Mine	Facility C	onfiguration	Cross-	Vally Pond		
Date Inspected	3/14/2017	Date La	st Inspected	ected 10/4/2016			
Impoundment	Pond #008	Pond	Location	SE¼SW¼, Sec. 7, T5N, R86W		Ouar	terly Impoundment Inspection Form
NPDES ID No	CO-0000221 D.P.008	Site 1	Location	7.1 mi SE of Hayden, CO		£	
Owner's Rep	Brian Watterson	Ins	pector				
				or Write	in Appropriat	e Respons	e: 113 - 54 1 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1
	FEATURE			PROF	BLEM	1	COMMENTS
				YES (Above) NO (Belo		ow)	
GENERAL					The second		
Water Level (above or	r below principal spillw	ay)	X				Water Level 0.1 above spillway
Existing Embankment		3,	4.7				,
Outflow (gpm)	` '		X				37.7
EROSION		F 70 T			TE AN ION D		
Rills & Gullies on Em	bankment				Х		
Wave Erosion					X		
Spillway Erosion					Х		
Burrows					X		
Other					Х		
STRUCTURAL							
Differential Settling					Х		
Cracks or Slides					X		
Seepage					Х		
Other					X		
STRUCTURES							
Principal Spillway							
Clogged Orifice					X		
Clogged or Damag	ged Culvert				X		
Damaged Headgat	e				NA		
Emergency Spillway				_			
Erosion					X		
Riprap					X		
Clogged or Damag	ed Culvert				Х		MS
Other			•		X		(*)
MAINTENACE			a Halley I				
Maintenance Require					X		
Maintenance Perform	ed				X		
1.1100							

Additional Comments

NO LONGER REQUIRED DUE TO FINAL BOND RELEASE

Mining Area	Seneca II West Mine	Facility (	Facility Configuration		Vally Pond			
Date Inspected	3/14/2017	Date La	st Inspected	10/3/2016				
Impoundment	Pond #009	Pond	Location	SE¼ SW¼, Se	c. 11, T5N, R88W	Oua	rterly Impoundment Inspection For	
NPDES ID No	CO-0000221 D.P. 009	Site	Location	8 mi. S of	Hayden, CO	£		
Owner's Rep	Brian Watterspm	Ins	spector		Chris Miller			
					in Appropriat	e Respon	se:	
	FEATURE			PROF			COMMENTS	
			YES (Ab	ove)	NO (Bel	ow)		
ENERAL		Virtue Auto		174 - 174		y-5 m		
Vater Level (above or	r below principal spillwa	ıy)			X		Water level 3.0 feet below top of pipe	
xisting Embankment	t Freeboard (6.9 ft)		8.9				]	
outflow (gpm)					Х		1	
ROSION				124				
tills & Gullies on Em	ıbankment				Х			
Vave Erosion				X			]	
pillway Erosion					X			
Burrows								
Other				X				
TRUCTURAL								
Differential Settling					X			
Cracks or Slides					X			
eepage					X			
Other				X				
TRUCTURES								
rincipal Spillway								
Clogged Orifice				X			_	
	Clogged or Damaged Culvert			X				
Damaged Headgat	e		1		NA			
Emergency Spillway								
Erosion				X				
Riprap	p		X					

Χ

X

Clogged or Damaged Culvert

Other MAINTENACE

Maintenance Required
Maintenance Performed
Additional Comments

Mining Area	Seneca II West Mine	Facility Configuration	Cross-	Vally Pond				
Date Inspected	3/14/2017	Date Last Inspected	10/	4/2016				
Impoundment	Pond #015	Pond Location	NE% SE%, Sec. 23, T5N, R88W 8 mi. S of Hayden, CO Chris Miller		<b>Quarterly Impoundment Inspection Fo</b>			
NPDES ID No	CO-0000221 D.P. 015	Site Location			Quality Impoundations			
Owner's Rep	Brian Watterson	Inspector						
			or Write	in Appropriat	Response:			
	FEATURE		PROF		COMMENTS	<u> </u>		
				NO (Beld	w)			
GENERAL			Transfer Ly					
Water Level (above o	r below principal spillwa	ay) X			water level 0.03 feet above spillway			
Existing Embankmen	t Freeboard (4.0 ft)	4.0						
Outflow (gpm)		Х			6.3			
EROSION				Parkers of				
Rills & Gullies on En	nbankment			X				
Wave Erosion				X				
Spillway Erosion				Х				
Burrows				Х				
Other				Х				
STRUCTURAL			I II op.					
Differential Settling				Х				
Cracks or Slides				Х				
Seepage				X				
Other				X				
STRUCTURES								
Principal Spillway								
Clogged Orifice				X				
Clogged or Damag	0			Х				
Damaged Headgat				NA				
Emergency Spillway								
Erosion				Х				
Riprap				X				
Clogged or Damag	ged Culvert			X				
Other				X				
MAINTENACE								
Maintenance Require		X			Standpipe is rusted through			
Maintenance Perform		X		X				
Additional Comment	omments							

Mining Area	Seneca II West Mine	Facility C	Configuration	Cross-Va	ally Pond					
Date Inspected	3/14/2017	Date La	st Inspected	ted 10/4/2016						
Impoundment	Pond #016	Pond	Location	NE¼ SE¼, Sec 27, T5N, R88W		Ouar	terly Impoundment Inspection Form			
NPDES ID No	CO-0000221 D.P. 016	Site	Location	8 mi. S of Hayden, CO		£				
Owner's Rep	Brian Watterson	Ins	pector		Miller					
Mark or Write in Appropriate Response:										
	FEATURE		PROBLEM				COMMENTS			
				oove)	NO (Be	low)				
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				25.7			
EROSION										
Rills & Gullies on En	nbankment				X					
Wave Erosion					X					
Spillway Erosion					X					
Burrows					Х					
Other					Х					
STRUCTURAL					'NATE OF E					
Differential Settling					X					
Cracks or Slides					Х					
Seepage					Х					
Other			1		X					
STRUCTURES										
Principal Spillway										
Clogged Orifice	101				X					
Clogged or Dama					X					
Damaged Headga	te		J		N.A					
Emergency Spillway			T		1 4					
Erosion					X					
Riprap	and Culsiant				X					
Clogged or Damag	geu Cuivert		-	X						
Other MAINTENACE					Х					
Maintenance Require	ed				Х					
Maintenance Require					X					
Additional Comment					X					
Additional Comment	S		<u> </u>		<u> </u>					

Mining Area	Seneca II West Mine	Facility C	Configuration	Cross	-Vally Pond	<u> </u>		
Date Inspected	3/14/2017		st Inspected		10/4/2017			
Impoundment	Pond #017		Location	SW% NE%, Sec. 34, T5N, R88W 8 mi. S of Hayden, CO		Quarterly Impoundment Inspection For		
NPDES ID No	CO-0000221 D.P. 017		Location			Quui		
Owner's Rep	Brian Watterson		pector		ris Miller			
0 11101 0 1100	The state of the s				in Appropriat	Resnons	ρ,	
	FEATURE		172411	PRO	BLEM	respons	COMMENTS	
				YES (Above) NO (Belov				
GENERAL				MAS AT		ALV V		
Water Level (above o	r below principal spillw	ay)	Х		1		water level 0.07 feet above spillway	
Existing Embankmen	t Freeboard (3.1 ft)	• /	3.1					
Outflow (gpm)			Х				14.6	
EROSION								
Rills & Gullies on En	nbankment				Х			
Wave Erosion					Х			
Spillway Erosion				Х			*	
Burrows					Х			
Other					X			
STRUCTURAL		W						
Differential Settling					Х			
Cracks or Slides				X				
Seepage				X				
Other			]	X				
STRUCTURES								
Principal Spillway								
Clogged Orifice					X			
Clogged or Dama					X			
Damaged Headga					NA NA			
Emergency Spillway								
Erosion					X			
Riprap	101				X			
	Clogged or Damaged Culvert			X				
Other			1		<u> </u>			
MAINTENACE								
Maintenance Require					X		Sluff on North side, armour is working	
	Maintenance Performed			X		-		
Additional Comment	S		X		<u> </u>	<del></del>		

Mining Area	Seneca II West Mine	Facility Co	nfiguration	Stoc	kpond	
Date Inspected	3/15/2017	Date Last		10/3/2016		]
Impoundment	Stock Tank T-1	Pond L	ocation	SE%SW%, Sec 16, T5N, R88W		Quarterly Impoundment Inspection Form
NPDES ID No	N/A	Site Lo	ocation	8 mi S of Hayden, CO		1
Owner's Rep	Brian Watterson	Insp	ector		Herden	
				or Write i	n Appropriat	ate Response:
	FEATURE			PROB		COMMENTS
			YES (Ab	ove)	NO (Bel	elow)
GENERAL						
Water Level (above or	below principal spillw	ay)			Х	
EROSION				10 11 11	W Well-	
Rills & Gullies on Eml	bankment				X	
Wave Erosion					X	
Spillway Erosion					N/A	Α
Burrows		L		Х		
					X	
1					X	
		_				
		L				
					X	
00	101	-				
		-				
	2			N/A		Α Ι
1		-				
	-d Colored	H				
ll oo	ed Culvert	-				
					^	
	1					No access due to winter conditions
		-				
		-	Y			<u> </u>
Wave Erosion Spillway Erosion	ed Culvert ed Culvert		X		X N/A X X	A A A A A A A A A A A A A A A A A A A

Date Inspected Impoundment   Stock Tank T-2   Pond Location   NWXSWX, Sec 22, TSN, R88W   8 ml S of Hayden, CO   Jason Herden	ndment Inspection Form  COMMENTS
NPDES ID No Owner's Rep	-
NPDES ID No Owner's Rep	-
Mark or Write in Appropriate Response:  FEATURE  PROBLEM YES (Above)  NO (Below)  GENERAL  Water Level (above or below principal spillway)  Rills & Gullies on Embankment X Wave Erosion Spillway Erosion Spillway Erosion Burrows  Mark or Write in Appropriate Response:  PROBLEM YES (Above) NO (Below)  X  X  Spillway X  NO (Below)  X  X  X  Burrows	COMMENTS
FEATURE         PROBLEM           YES (Above)         NO (Below)           GENERAL         X           Water Level (above or below principal spillway)         X           EROSION         X           Rills & Gullies on Embankment         X           Wave Erosion         X           Spillway Erosion         X           Burrows         X	COMMENTS
YES (Above)         NO (Below)           GENERAL         Water Level (above or below principal spillway)         X           EROSION         X           Rills & Gullies on Embankment         X           Wave Erosion         X           Spillway Erosion         X           Burrows         X	COMMENTS
GENERAL           Water Level (above or below principal spillway)         X           EROSION         X           Rills & Gullies on Embankment         X           Wave Erosion         X           Spillway Erosion         X           Burrows         X	
Water Level (above or below principal spillway)         X           EROSION         X           Rills & Gullies on Embankment         X           Wave Erosion         X           Spillway Erosion         X           Burrows         X	
EROSION         X           Rills & Gullies on Embankment         X           Wave Erosion         X           Spillway Erosion         X           Burrows         X	
Rills & Gullies on Embankment         X           Wave Erosion         X           Spillway Erosion         X           Burrows         X	
Wave Erosion X Spillway Erosion X Burrows X	
Spillway Erosion X Burrows X	
Burrows X	
Other   X	ì
STRUCTURAL	
Differential Settling X	
Cracks or Slides X	
Seepage X	
Other X STRUCTURES	
Principal Spillway	
Clogged Orifice NA	
Clogged or Damaged Culvert NA	
Damaged Headgate NA	
Emergency Spillway	
Erosion X	
Riprap	
Clogged or Damaged Culvert NA	
Other X	
MAINTENACE	
Maintenance Performed X	access due to winter conditions
Additional Comments X	access due to winter conditions

Mining Area	Seneca II West Mine	Facility C	onfiguration	Stor	ckpond		
Date Inspected	3/15/2017	Date Las	st Inspected	10/	4/2016		
Impoundment	Stock Tank T-3	Pond	Location	NW%SE%, Sec 22, T5N, R88W		Quarterly Impoundment Inspection For	
NPDES ID No	N/A	Site 1	Location	8 mi S of Hayden, CO			
Owner's Rep	Brian Watterson	Ins	pector	Jasor	Herden		
			Mark	or Write	in Appropriat	e Response:	
	FEATURE		· · · · -	PROB		COMMENTS	
			YES (Ab	ove)	NO (Bel	ow)	
GENERAL				THE STATE OF			
	r below principal spillwa	ay)			Х		
EROSION							
Rills & Gullies on Em	bankment				X		
Wave Erosion					X	<u> </u>	
Spillway Erosion					X		
Burrows				X			
Other					X		
STRUCTURAL							
Differential Settling					X		
Cracks or Slides					X		
Seepage				X			
Other STRUCTURES					X		
Principal Spillway							
Clogged Orifice			1		NA		
Clogged or Damag	ed Culvert				NA NA		
Damaged Headgate	•				NA NA		
Emergency Spillway			l				
Erosion			<u> </u>		Х		
Riprap			<u> </u>		X		
Clogged or Damage	ed Culvert				NA NA		
Other					X		
MAINTENACE				grey T			
Maintenance Required	d				Х	No access due to winter conditions	
Maintenance Perform	ed				Х		
Additional Comments	1		Х				

Mining Area	Seneca II West Mine	Facility C	Configuration	Ct-ol				
Date Inspected	3/15/2017	Date Last Inspected			rpond (2016			
Impoundment	Stock Tank T-5	The Part Comment of the Comment	Location		/2016	0	O.,	
NPDES ID No			Location		, T5N, R88W	Quar	terly Impoundment Inspection Form	
The bearing beautiful and beautiful and	N/A	A PROPERTY			8 mi S of Hayden, CO			
Owner's Rep	Brian Watterson	Ins	pector		Jason Herden Write in Appropriate			
	FEATURE		Mark			te Respoi		
FEATURE		3/22 / 41		PROBLEM  e) NO (Below)		COMMENTS		
CENTERNA		240000000	YES (AI	oove)	NO (Be	low)		
GENERAL	- 11		1		· · · · · · · · · · · · · · · · · · ·			
EROSION	r below principal spillw	'ay)			X			
Rills & Gullies on Em	houlemant		I					
Wave Erosion	ivankillelli				X			
Spillway Erosion					X			
Burrows			-		X			
Other				X				
STRUCTURAL				all se	^			
Differential Settling			T		X			
Cracks or Slides					X			
Seepage				X				
Other				Х				
STRUCTURES								
Principal Spillway								
Clogged Orifice					NA			
Clogged or Damag	ged Culvert			NA				
Damaged Headgat	e				NA			
Emergency Spillway								
Erosion					Х			
Riprap					X			
Clogged or Damag	ed Culvert				NA			
Other					Х			
MAINTENACE				100				
Maintenance Require					Х		No access due to winter conditions	
Maintenance Perform					Х			
Additional Comment	S		x					

Mining Area	Seneca II West Mine	Facility C	Configuration	Stock	pond				
Date Inspected	3/15/2017	Date La	st Inspected	10/3/2016 NW%NE%, Sec 15, T5N, R88W					
Impoundment	Stock Tank T-18		Location			Quarterly	Impoundment Inspection Form		
NPDES ID No	N/A	Site	Location		layden, CO	Quarterly			
Owner's Rep	Brian Watterson	Ins	pector	Jason Herden					
				or Write in	Appropriat	e Response:			
	FEATURE		1	PROBI	.EM		COMMENTS		
		YES (At	ove)	NO (Bel	ow)				
GENERAL									
Water Level (above or	r below principal spillw	ay)			X				
EROSION									
Rills & Gullies on Em	bankment				X				
Wave Erosion					Х				
Spillway Erosion				X					
Burrows					X				
Other					X				
TRUCTURAL									
Differential Settling					X				
Cracks or Slides					X				
Seepage					X				
Other					X				
TRUCTURES									
Principal Spillway									
Clogged Orifice					NA				
Clogged or Damag					NA				
Damaged Headgate	e				NA				
Emergency Spillway									
Erosion					X				
Riprap					X				
Clogged or Damage	ed Culvert				NA				
Other					X				
MAINTENACE									
Maintenance Required					X		No access due to winter conditions		
Maintenance Perform					X				

Additional Comments

Mining Area	Seneca II West Mine	Facility C	onfiguration	Stockpond		<u> </u>		
Date Inspected	3/15/2017	The residence with a professional region in	t Inspected	10/3/2016				
Impoundment	Stock Tank T-20	Pond	Location	NW%NE%, Sec 15, T5N, R88W		Quai	<b>Quarterly Impoundment Inspection Form</b>	
NPDES ID No	N/A	Site L	ocation	8 mi S of	Hayden, CO			
Owner's Rep	Jason Herden	Ins	pector	Jason	n Herden	i i		
			Marl		in Appropriat	e Respons	se:	
	FEATURE				BLEM		COMMENTS	
			YES (Al	oove)	NO (Bel	ow)		
GENERAL			107-111-1					
	r below principal spillw	ay)			X			
EROSION								
Rills & Gullies on Em	bankment				Х			
Wave Erosion					X			
Spillway Erosion					X			
Burrows				X				
Other					X			
STRUCTURAL		75						
Differential Settling					X			
Cracks or Slides				X				
Seepage				X				
Other					X			
STRUCTURES								
Principal Spillway			I		1 1/2			
Clogged Orifice	d C1d				NA NA			
Clogged or Damag					NA NA			
Damaged Headgat Emergency Spillway	e				I NA			
Erosion Erosion			I		l x			
Riprap					X			
Clogged or Damag	ed Culvert		<del></del>		NA NA			
Other	ca Carvert				X			
MAINTENACE					A			
Maintenance Require	d		T		X		No access due to winter conditions	
Maintenance Perform				X		The decess due to William Collections		
Additional Comment			X		1		1	

Mining Area	Seneca II West Mine	Facility C	Configuration Stoo		kpond		
Date Inspected	3/15/2017		st Inspected		3/2016		
Impoundment	Stock Tank T-22		Location		c 10, T5N, R88W	Onai	rterly Impoundment Inspection Form
NPDES ID No	N/A	Site I	Location		8 mi S of Hayden, CO		terry impoundment inspection i of m
Owner's Rep	Brian Watterson	Ins	pector		Jason Herden		l I
					in Appropriat	e Respons	(e:
	FEATURE			PROE		- recoposit	COMMENTS
			YES (Ab	ove)	NO (Bel	ow)	
GENERAL			a was all				
Water Level (above or	below principal spillw	ay)			X		
EROSION						10079	
Rills & Gullies on Em	bankment				Х		
Wave Erosion					Х		
Spillway Erosion					X		
Burrows				X			
Other				X			
STRUCTURAL							
Differential Settling					X		
Cracks or Slides				X			
Seepage				X			
Other					X		
STRUCTURES							
Principal Spillway							
Clogged Orifice	101				NA		
Clogged or Damag					NA		
Damaged Headgat	e				NA		
Emergency Spillway Erosion			1				
Riprap					X		
	ogged or Damaged Culvert		NA NA				
Other				X			
MAINTENACE	Company of the Compan			0.00	^		
Maintenance Require			T T		Х		No access due to winter conditions
Maintenance Perform					×		140 decess due to winter conditions
Additional Comments	5		X		^		

Date Inspected Impoundment Stock Tank T-24 Pond Location NPDES ID No Owner's Rep Brian Watterson Inspector Inspector PEATURE PROBLEM COMMENTS  TEATURE PROBLEM COMMENTS  Date Last Inspected 10/3/2016 SWMNEM, Sec 9, 75N, R88W 8 mi S of Hayden, CO Jason Herden  Mark or Write in Appropriate Response:  PROBLEM COMMENTS  YES (Above) NO (Below)  GENERAL	
NPDES ID No Owner's Rep    Brian Watterson   Site Location   8 mi S of Hayden, CO     Jason Herden	
NPDES ID No Owner's Rep    Brian Watterson   Site Location   8 mi S of Hayden, CO     Jason Herden	ction Form
Mark or Write in Appropriate Response:  FEATURE PROBLEM COMMENTS  YES (Above) NO (Below)  GENERAL	
FEATURE         PROBLEM         COMMENTS           YES (Above)         NO (Below)	
FEATURE         PROBLEM         COMMENTS           YES (Above)         NO (Below)	
GENERAL	
Water Level (above or below principal spillway)	
EROSION	
Rills & Gullies on Embankment X	
Wave Erosion X	
Spillway Erosion X	
3urrows X	
Other X	
TRUCTURAL	
Differential Settling X	
Cracks or Slides X	
Seepage X	
Other X	
TRUCTURES	or free to
Principal Spillway	
Clogged Orifice NA	
Clogged or Damaged Culvert NA	
Damaged Headgate NA	
Emergency Spillway	
Erosion X	
Riprap X	
Clogged or Damaged Culvert NA	
Other X MAINTENACE	
	listana
Maintenance Required X No access due to winter cond Maintenance Performed X	
Additional Comments X	itions

Mining Area			Facility Configuration Stockpond				
Date Inspected	3/15/2017	Date Las	ast Inspected 10/4,		H.		
Impoundment Stock Tank T-25 Pond Location		Location	SW%NE%, Sec 34, T5N, R88W		<b>Quarterly Impoundment Inspection Form</b>		
NPDES ID No	N/A	Site I	Location	8 mi S of Hayde	n, CO		
Owner's Rep	Brian Watterson	Ins	pector	Jason Herde	n		
			Mark	or Write in App	ropriat	ate Response:	
=307	FEATURE			PROBLEM		COMMENTS	
			YES (Ab	ove)	NO (Bel	elow)	
GENERAL					10, 150		
	r below principal spillw	ay)			N/A	A	
ROSION					, 100		
Rills & Gullies on En	nbankment				N/A		
Vave Erosion					N/A		
pillway Erosion					N/A		
Burrows				N/A			
Other				11	N/A	A	
TRUCTURAL							
Differential Settling					N/A		
Cracks or Slides				N/A			
Seepage Other				N/A N/A			
TRUCTURES					IN/A	A	
Principal Spillway							
Clogged Orifice				1	N/A	Δ	
Clogged or Damag	ged Culvert			N/A			
Damaged Headgat			-	N/A			
Emergency Spillway					//	·· In Section 2	
Erosion					N/A	A	
Riprap					N/A		
Clogged or Damaged Culvert		N/A					
Other					N/A		
MAINTENACE		TELLIS III KA	e 111 - 11,				
Maintenance Require	ed				Х	DAM REMOVED FALL 2011, REBUILT IN 2012 AS A RUNOFF	
Maintenance Perform	ned				X	CONTROL STURCURE (PM1-A3)	
Additional Comment	s		Х				

Mining Area	Seneca II West Mine	Facility C	onfiguration	Stockpond			
Date Inspected	3/15/2017	Date La	st Inspected	10/4/2016			
Impoundment	Stock Tank T-26	Pond	Location	NE¼NW¼, Sec 35, T5N, R88W		Quarterly Impoundment Inspection For	
NPDES ID No	N/A	Site	Location	8 mi S of H		2 mar 101 1 mp o an	
Owner's Rep	Brian Watterson	Ins	pector	Jason H			
			Mark	or Write in	Appropriat	e Response:	
	FEATURE		PROBLEM			COMMENTS	
			YES (Ab	oove)	NO (Belo	ow)	
GENERAL							
Water Level (above or	below principal spillw	ay)			Х		
EROSION							
Rills & Gullies on Em	bankment				Х		
Wave Erosion					X		
Spillway Erosion					Х		
Burrows				Х			
Other				X			
STRUCTURAL							
Differential Settling					X		
Cracks or Slides				X			
Seepage				X			
Other					· X		
STRUCTURES							
Principal Spillway							
Clogged Orifice	-10-1				NA		
Clogged or Damag				NA NA			
Damaged Headgate Emergency Spillway					NA		
Erosion							
Riprap	L				X		
Clogged or Damaged Culvert							
Other			NA X				
MAINTENACE					۸		
Maintenance Required	1	•	1		X	No access due to winter conditions	
Maintenance Performe						ivo access due to winter conditions	
Additional Comments			×				

Mining Area	Seneca II West Mine			Sto	ockpond			
Date Inspected	3/15/2017		Inspected	10/4/2016 NW%NW%, Sec 35, T5N, R88W				
Impoundment	Stock Tank T-27	Pond L	ocation			<b>Quarterly Impoundment Inspection Form</b>		
NPDES ID No	N/A	Site L	ocation	8 mi S o	f Hayden, CO	_		
Owner's Rep	Brian Watterson	Insp	ector	Jaso	n Herden		i	
			Marl	or Write	in Appropriat	e Response		
	FEATURE				BLEM		COMMENTS	
			YES (Ab	ove)	NO (Belo	ow)		
GENERAL								
Water Level (above o	or below principal spillw	vay)			N/A		Water Level 2.6 feet below spillway	
EROSION								
Rills & Gullies on En	nbankment				N/A			
Wave Erosion					N/A			
Spillway Erosion					N/A			
Burrows					N/A			
Other				N/A				
STRUCTURAL					TOWN			
Differential Settling					N/A		7 - Title	
Cracks or Slides		Ĺ			N/A			
Seepage					N/A			
Other	<del></del>				N/A			
STRUCTURES								
Principal Spillway								
Clogged Orifice		L			N/A			
Clogged or Damag		L			N/A			
Damaged Headgat					N/A			
Emergency Spillway								
Erosion					N/A			
Riprap					N/A			
	Clogged or Damaged Culvert			N/A				
Other					N/A			
MAINTENACE								
Maintenance Require					Х		REBUILT IN 2012 AS A RUNOFF CONTROL STURCURE	
Maintenance Perform					X			
Additional Comment	is		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 DA	ΓΑ	1		Τ	1	Г		
SITEID	COMPANY	MINE	DATE	TIME	WATER LEVEL (FT)	OUTFLOW (GPM)	OBSERVATIONS	MAINTENANCE (Y/N)
002	Sage Creek	Sage Creek	3-14-17	08:35	0.19	139.6		N
003	Sage Creek	Sage Creek	3-14-17	08:20	0.10	12.3	some bullows	N
004	Sage Creek	Sage Creek	3-14-17	09:00	0.03	31,3	ontlet pipepartially chiqued	У
Lower Sump	Sage Creek	Sage Creek	3-15-17	07:30	0.3	317		N
PECOCO	Sage Creek	Sage Creek	3-15-17	09:00	0,2	152		N
Portal Sump 1	Sage Creek	Sage Creek	3-15-17	10'6	01,2		not digining	У
Portal Sump 2	Sage Creek	Sage Creek	3-15-17	09:50			not digining	ADD X
Spill Control 2	Sage Creek	Sage Creek	3-15-17	08:20	~23		Flozen	N
Truck Wash	Sage Creek	Sage Creek	3-15-17	09:40			DIS	N
Upper Sump	Sage Creek	Sage Creek	3-15-17	1000	0.3	136		N
001	Seneca	Hayden Gulch	3-15-17	07:30	-1,4			N
002	Seneca	Hayden Gulch	3-15-17	07:50	-2.5			N
005	Seneca	Seneca II West	3-14-17	11:50	0.02	16.4		N
006	Seлеса	Seneca II West	3-14-17	10:00	0.04	39,9	Big sluff on 5, side notatection	N
009	Seneca	Seneca II West	3-14-17	12135	-3.0		NO Flow	N
015	Seneca	Seneca II West	3-14-17	14:25	0.03	6.26	standpipe is justed through	У
016	Seneca	Seneca II West	3-14-17	10:10	0.05	25,7		N
017	Seneca	Seneca II West	3-14-17	10:30	0.07	12.7	slight slutton Niside armor is welking	N
T-1	Seneca	Seneca II West	-					
T-18	Seneca	Seneca II West		_	_	_		
T-2	Seneca	Seneca II West	~		-			
T-20	Seneca	Seneca II West	_	_	~	_		
T-22	Seneca	Seneca II West	~			_		
T-24	Seneca	Seneca II West		_	_	_		
T-25	Seneca	Seлеса II West	~			_		
T-26	Seneca	Seneca II West		_	_	_		

008

3-14-17 09:45 0.4

37,7

WWCengineering IMPOUNDMENT INSPECTION LOG

SITE ID	COMPANY	MINE	DATE	TIME	WATER LEVEL (FT)	OUTFLOW (GPM)	OBSERVATIONS	MAINTENANCE (Y/N)
T-27	Seneca	Seneca II West		_	_			
T-3	Seneca	Seneca II West	-	_	~			
T-5	Seneca	Seneca II West	~	_			Para Para Para Para Para Para Para Para	
010	Seneca	Yoast	3-14-17	08.55	0.01	58,7	outlet Pipe is justed though	У
011	Seneca	Yoast	3-14-17	16:55	~ 4.3		No Flow	N
011A	Seneca	Yoast	- market	_				
012	Seneca	Yoast	3-14-17	13:50	0.13	44.96	erosion behind thunderweath flume	У
012A	Seneca	Yoast	3-14-17	14:10	-016		NO Flow	N
013	Seneca	Yoast	3-14-17	15:05	0.03	13,57		N
014	Seneca	Yoast	3-14-17	15:50	-0.2		NO Flow	N
ST-1	Seneca	Yoast				_		

CLIMATIC CONDITIONS: 340F 660F	wind calm-22MPH variable, cle	ear-mostly cloudy
FIELD PERSONNEL: JH	wind Calm-22MPH variable, cle	$\sim$
NOTES		
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