

April 9, 2024

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

RE: Peabody Sage Creek Mine, Permit C-2009-087, First Quarter 2024 IIR

CDRMS-

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

Best regards,

Miranda Kawcak

Miranda Kawcak Environmental Manager Peabody, Colorado Operations

Enclosure: PSCM 1Q24 IIR

	PERIODIC INSPECTION FORM: Water,	Sediment, or Slurry Impoundm	ents		
INS	PECTOR'S NAME: Jason Herden	DATE: 03/26/24			
NP	DES I.D. NO.: CO-0048275 D.P. 002	-1			
FAC	ILITY CONFIGURATION: Incised Pond	DATE LAST INSPECTION: 11/	06/23		
SITE	ENAME: Wadge Impoundment #002	LOCATION: NW¼ NE¼, Sec. 2	2, T5N, F	R87W	
	NE NAME: Peabody Sage Creek Mine	LOCATION: 7.1 mi. SE of Hay	den, CO)	
MIN	NE I.D. NO.: CMLRD Permit No. C-2009-087	OWNER'S REP.: Miranda Kav	vcak		
	CIRCLE OR WRITE IN APPROPRIATE RE	SPONSE:	YES	NO	N/A
1	Foundation preparation (removal of vegetation, stumps, to	psoil:			х
2	Lift thickness:				х
3	Compaction according to approved plan:				х
4	Burning (specify extent and location):				х
5	Angle of slope:upstream,downstream		To	tal = N//	4
6	*Seepage (specify location, color, and approximate volume)			
	From underdrain pipes				x
	At isolated points on embanckement slopes				х
	At natural hillside:				х
	Over widespread areas:				х
	From downstream foundation area:				х
	"Boils" beneath stream or ponded water:			х	
7	Cracks or scarps on crest:				х
8	Cracks or scarps on slope:				х
9	Sloughing or bulging on slope:				х
10	*Major erosion problems:			х	
11	Surface movements in valley bottom or on hillside:			х	
12	*Erosion of toe:				х
13	*Water impounded against toe:				х
14	Existing embankment freeboard: 0 FT				
15	Increase Decrease in water level: 0.6 FT ABOVE	SPILLWAY			
16	Cracks, bulging, or erosion on upstream face:				х
17	Visible sumps or sinkholes in slurry surface:				х
18	*Clogging				
	Spillway channels and pipes:			х	
	Decant system:				х
	Diversion ditches:			х	
19	*Cracking or crushing of pipes				
	Spillway pipes:				х
	Decant system:				х
20	Trash racks clear and in place:				х
21	Discharge rate: 103.1 GPM				
*M	ajor adverse changes in these items could cause instability a	nd should be reported to the En	gineerin	g Mana	ger
	Mine Superintendent for further evaluation. Adverse condi		d norma	ally be	
des	cribed (extextent, location, volume, etc.) here: FLUME NEEL	S RESET, SLIGHTLY TILTED.			

	PERIODIC INSPECTION FORM: Water,	Sediment, or Slurry Impound	ments		
INS	PECTOR'S NAME: Jason Herden	DATE: 03/26/24			
NP	DES I.D. NO.: CO-0048275 D.P. 003	-			
FAC	CILITY CONFIGURATION: Diked Pond	DATE LAST INSPECTION: 11	/06/23		
SITI	E NAME: Shop Pond #003	LOCATION: SE¼ SW¼, Sec. 2	27, T6N, I	R87W	
MIN	NE NAME: Peabody Sage Creek Mine	LOCATION: 7.1 mi. SE of Ha	yden, CO)	
MIN	NE I.D. NO.: CMLRD Permit No. C-2009-087	OWNER'S REP.: Miranda Ka	wcak		
	CIRCLE OR WRITE IN APPROPRIATE RES	SPONSE:	YES	NO	N/A
1	Foundation preparation (removal of vegetation, stumps, to	osoil:	х		
2	Lift thickness: 12 IN				
3	Compaction according to approved plan:		х		
4	Burning (specify extent and location):			х	
5	Angle of slope: <u>2:1</u> upstream, <u>3:1</u> downstream		То	tal = 5::	L
6	*Seepage (specify location, color, and approximate volume)				
	From underdrain pipes				х
	At isolated points on embanckement slopes			х	
	At natural hillside:			х	
	Over widespread areas:			х	
	From downstream foundation area:			х	
	"Boils" beneath stream or ponded water:			х	
7	Cracks or scarps on crest:			х	
8	Cracks or scarps on slope:			х	
9	Sloughing or bulging on slope:			х	
10	*Major erosion problems:			х	
11	Surface movements in valley bottom or on hillside:			х	
12	*Erosion of toe:			х	
13	*Water impounded against toe:			х	
14	Existing embankment freeboard (4.9 is normal): 4.8 FT			-	
15	Increase Decrease in water level: 0.1 FT ABO	'E SPILLWAY			
16	Cracks, bulging, or erosion on upstream face:			х	
17	Visible sumps or sinkholes in slurry surface:				х
18	*Clogging				
	Spillway channels and pipes:			х	Ι
	Decant system:				х
	Diversion ditches:			х	
19	*Cracking or crushing of pipes		-	-	-
	Spillway pipes:				х
	Decant system:				х
20	Trash racks clear and in place:		х		Τ
21	Discharge rate: 2.4 GPM				
	ajor adverse changes in these items could cause instability a	nd should be reported to the E	ngineerin	g Mana	ger
	Mine Superintendent for further evaluation. Adverse condit	-	-		
des	cribed (extextent, location, volume, etc.) here: SNOW COVE	RED.			

	PERIODIC INSPECTION FORM: Water, S	ediment, or Slurry Impoundr	nents		
INS	PECTOR'S NAME: Jason Herden	DATE: 03/27/24			
NP	DES I.D. NO.: N/A				
FAC	ILITY CONFIGURATION: Incised Pond	DATE LAST INSPECTION: 11	/07/23		
SITI	ENAME: Spill Control Pond #2	LOCATION: NW¼ NE¼, Sec.	34, T6N	, R87W	
	NE NAME: Peabody Sage Creek Mine	LOCATION: 7.1 mi. SE of Ha	yden, CO))	
MI	NE I.D. NO.: CMLRD Permit No. C-2009-087	OWNER'S REP.: Miranda Ka	wcak		
	CIRCLE OR WRITE IN APPROPRIATE RES	PONSE:	YES	NO	N/A
1	Foundation preparation (removal of vegetation, stumps, top	soil:	х		
2	Lift thickness: N/A				<u> </u>
3	Compaction according to approved plan:				х
4	Burning (specify extent and location):				х
5	Angle of slope:upstream,downstream			N/A	
6	*Seepage (specify location, color, and approximate volume)				
	From underdrain pipes				х
	At isolated points on embanckement slopes			х	
	At natural hillside:			х	
	Over widespread areas:			x	
	From downstream foundation area:			х	
	"Boils" beneath stream or ponded water:			x	
7	Cracks or scarps on crest:			x	
8	Cracks or scarps on slope:			x	
9	Sloughing or bulging on slope:			x	
10	*Major erosion problems:			х	
11	Surface movements in valley bottom or on hillside:			х	
12	*Erosion of toe:			х	
13	*Water impounded against toe:			х	
14	Existing embankment freeboard (7.0 is normal when dry): 7	FT			
15	Increase Decrease in water level: DRY				
16	Cracks, bulging, or erosion on upstream face:			х	
17	Visible sumps or sinkholes in slurry surface:				х
18	*Clogging				
	Spillway channels and pipes:			х	
	Decant system:				х
	Diversion ditches:				х
19	*Cracking or crushing of pipes				
	Spillway pipes:				х
	Decant system:				х
20	Trash racks clear and in place:				х
21	Discharge rate: 0.0 GPM				
	ajor adverse changes in these items could cause instability and	-	-		ger
	Mine Superintendent for further evaluation. Adverse condition		ld norma	ally be	
des	cribed (extextent, location, volume, etc.) here: SNOW COVER	ED.			

	PERIODIC INSPECTION FORM: Water, S	ediment, or Slurry Impoundr	nents		
INS	PECTOR'S NAME: Jason Herden	DATE: 03/27/24			
NPI	DES I.D. NO.: N/A	•			
FAC	ILITY CONFIGURATION: Final Pit Impoundment	DATE LAST INSPECTION: 11	/07/23		
SIT	E NAME: Pecoco Reservoir	LOCATION: SW¼ NW¼, Sec.	2, T5N,	R87W	
MI	NE NAME: Peabody Sage Creek Mine	LOCATION: 7.1 mi. SE of Ha	yden, CO)	
MI	NE I.D. NO.: CMLRD Permit No. C-2009-087	OWNER'S REP.: Miranda Ka	wcak		
	CIRCLE OR WRITE IN APPROPRIATE RES	PONSE:	YES	NO	N/A
1	Foundation preparation (removal of vegetation, stumps, top	soil:	х		
2	Lift thickness: N/A				-
3	Compaction according to approved plan:		х		
4	Burning (specify extent and location):			х	
5	Angle of slope: <u>5:1</u> upstream, <u>2:1</u> downstream		То	tal = 7:1	
6	*Seepage (specify location, color, and approximate volume)				
	From underdrain pipes				х
	At isolated points on embanckement slopes			х	
	At natural hillside:			х	
	Over widespread areas:			х	
	From downstream foundation area:			х	
	"Boils" beneath stream or ponded water:			х	
7	Cracks or scarps on crest:			х	
8	Cracks or scarps on slope:			х	
9	Sloughing or bulging on slope:			х	
10	*Major erosion problems:			х	
11	Surface movements in valley bottom or on hillside:			х	
12	*Erosion of toe:			х	
13	*Water impounded against toe:			х	
14	Existing embankment freeboard (6.1 is normal): 5.9 FT				
15	Increase Decrease in water level: 0.2 FT ABOVE S	PILLWAY			
16	Cracks, bulging, or erosion on upstream face:			х	
17	Visible sumps or sinkholes in slurry surface:				х
18	*Clogging				
	Spillway channels and pipes:			х	
	Decant system:				х
	Diversion ditches:				х
19	*Cracking or crushing of pipes				
	Spillway pipes:			х	
	Decant system:				х
20	Trash racks clear and in place:				х
21	Discharge rate: 89.7 GPM				
*M	ajor adverse changes in these items could cause instability an	d should be reported to the Er	ngineerin	g Manag	jer
	Mine Superintendent for further evaluation. Adverse conditi		ld norma	ally be	
des	cribed (extextent, location, volume, etc.) here: SNOW COVER	ED.			

	PERIODIC INSPECTION FORM: Water, S	ediment, or Slurry Impoundr	nents		
INS	PECTOR'S NAME: Jason Herden	DATE: 03/27/24			
NP	DES I.D. NO.: N/A				
FAC	ILITY CONFIGURATION: Diked Pond	DATE LAST INSPECTION: 11	/07/23		
SITI	E NAME: Lower Sump	LOCATION: SE¼, Sec. 34, Te	5N, R87W	1	
MIN	NE NAME: Peabody Sage Creek Mine	LOCATION: 7.1 mi. SE of Ha	yden, CO)	
MIN	NE I.D. NO.: CMLRD Permit No. C-2009-087	OWNER'S REP.: Miranda Ka	wcak		
	CIRCLE OR WRITE IN APPROPRIATE RES	PONSE:	YES	NO	N/A
1	Foundation preparation (removal of vegetation, stumps, top	soil:	х		Ī
2	Lift thickness =				
3	Compaction according to approved plan:		х		
4	Burning (specify extent and location):			х	
5	Angle of slope:upstream,downstream			N/A	-
6	*Seepage (specify location, color, and approximate volume)				
	From underdrain pipes				х
	At isolated points on embanckement slopes			х	
	At natural hillside:			х	
	Over widespread areas:			х	
	From downstream foundation area:			х	
	"Boils" beneath stream or ponded water:			х	
7	Cracks or scarps on crest:			х	
8	Cracks or scarps on slope:			x	
9	Sloughing or bulging on slope:			х	
10	*Major erosion problems:			x	
11	Surface movements in valley bottom or on hillside:			x	
12	*Erosion of toe:			x	
13	*Water impounded against toe:			х	
14	Existing embankment freeboard: 0 FT				
15	Increase Decrease in water level: 0.2 FT ABOVE	SPILLWAY			
16	Cracks, bulging, or erosion on upstream face:			х	
17	Visible sumps or sinkholes in slurry surface:				х
18	*Clogging			_	-
	Spillway channels and pipes:			х	
	Decant system:				х
	Diversion ditches:			х	
19	*Cracking or crushing of pipes			_	-
	Spillway pipes:				х
	Decant system:				х
	Trash racks clear and in place:		х		
21	Discharge rate: 98.6 GPM				
	ajor adverse changes in these items could cause instability an	-	-		ger
	Mine Superintendent for further evaluation. Adverse conditi		ld norma	illy be	
des	cribed (extextent, location, volume, etc.) here: SNOW COVER	ED.			

NSPECTOR'S NAME: Jason Herden DATE: 03/27/24 NPDES I.D. NO.: N/A ACULTY CONFIGURATION: Incised Pond DATE LAST INSPECTION: 11/07/23 SITE NAME: Truck Wash Settling Pond LOCATION: NW% NE%, Sec. 34, T6N, R87W WINE NAME: Peabody Sage Creek Mine LOCATION: 7.1 mi. SE of Hayden, CO WINE I.D. NO.: CMLRD Permit No. C-2009-087 OWNER'S REP.: Miranda Kawcak CIRCLE OR WRITE IN APPROPRIATE RESPONSE: YES NO N/A 1 Foundation preparation (removal of vegetation, stumps, topsoil: x x 2 Lift thickness: N/A S Compaction according to approved plan: x 3 Compaction according to approved plan: x x x 4 Burning (specify extent and location): x x x 5 Angle of slope:upstream,downstream N/A K x 6 "Seepage (specify location, color, and approximate volume) x x x From underdrain pipes x x x x At isolated points on embanckement slopes x x x From downstream foundation area: ''''''''''''''''''''''''''''''''''''		PERIODIC INSPECTION FORM: Water, S	ediment, or Slurry Impoundr	nents		
ACILITY CONFIGURATION: Incised Pond DATE LAST INSPECTION: 11/07/23 ITE NAME: Truck Wash Settling Pond LOCATION: MV/W NEX, Sec. 34, FIGN, R87W WINE NAME: Peabody Sage Creek Mine LOCATION: MV/W NEX, Sec. 34, FIGN, R87W WINE LD. NO: CMURD Permit No. C-2009-087 OWNIEY SREP. Miranda Kawcak CIRCLE OR WRITE IN APPROPRIATE RESPONSE: YES NO N/A 1 Foundation preparation (removal of vegetation, stumps, topsoil: x x x 2 Lift thickness: N/A 3 Compaction according to approved plan: x x 4 Burning (specify extent and location): N/A x x 5 Angle of slope: upstream N/A x 6 *Seepage (specify location, color, and approximate volume) From underdrain piges x x 7 At isolated points on embanckement slopes x x x x 7 Cracks or scarps on orest: x x x x 9 Sloughing or bulging on slope: x x x x 10 ⁶ Marceta stream or ponded water: x x x x x x <td>INS</td> <td></td> <td>-</td> <td></td> <td></td> <td></td>	INS		-			
BITE NAME: Truck Wash Settling Pond LOCATION: NWX NE%, Sec. 34, T6N, R87W MINE NAME: Peabody Sage Creek Mine LOCATION: 7.1 mi. SE of Hayden, CO WINE I.D. NO.: CMLRD Permit No. C-2009-087 OWNER'S RPJ: Miranda Kavcak CRCLE OR WRITE IN APPROPRIATE RESPONSE: YES NO 1 Foundation preparation (removal of vegetation, stumps, topsoil): x x 2 Lift thickness: N/A Sompaction according to approved plan: x 3 Compaction according to approved plan: x x 4 Burning (specify extent and location): x x 5 Angle of slope:upstream,downstream N/A x 6 *Seepage (specify location, color, and approximate volume) x x From underdrain pipes x x x At isolated points on embanckement slopes x x At natural hillside: x x x Over widespread areas: x x x 7 Cracks or scarps on slope: x x 9 Sloughing on bloging on slope: x x 1 Sufface movements in valley bottom or on hillside: <td>NP</td> <td>DES I.D. NO.: N/A</td> <td>!</td> <td></td> <td></td> <td></td>	NP	DES I.D. NO.: N/A	!			
NINE NAME: Peabody Sage Creek Mine LOCATION: 7.1 mi. SE of Hayden, CO WINE I.D. NO.: CMLRD Permit No. C-2009-087 OWNER'S REP.: Miranda Kawcak I Foundation preparation (removal of vegetation, stumps, topsoli: x Image: Comparity of Comparit	FAC	ILITY CONFIGURATION: Incised Pond	DATE LAST INSPECTION: 11	/07/23		
VIINE I.D. NO.: CMLRD Permit No. C-2009-087 OWNREY'S REP.: Miranda Kawcak CIRCLE OR WRITE IN APPROPRIATE RESPONSE: YES NO N/A 1 Foundation preparation (removal of vegetation, stumps, topsoil: x x x 2 Lift thickness: N/A Sompation according to approved plan: x x x 3 Compation according to approved plan: x x x x 4 Burning (specify extent and location): x x x 5 Angle of slope:upstream,downstream N/A x 6 *Seepage (specify location, color, and approximate volume) From underdrain pipes x At isolated points on embanckement slopes x x x At tasolated points on embanckement slopes x x 4 Biologith on areas:	SITE	NAME: Truck Wash Settling Pond	LOCATION: NW¼ NE¼, Sec.	34, T6N	, R87W	
CIRCLE OR WRITE IN APPROPRIATE RESPONSE: YES NO N/A 1 Foundation preparation (removal of vegetation, stumps, topsoil: x x 2 Lift thickness: N/A x x 3 Compaction according to approved plan: x x 4 Burning (specify extent and location): x x 5 Angle of slope:uptream,downstream N/A x 6 *Seepage (specify location, color, and approximate volume) r x From underdrain pipes x x x At isolated points on embanckement slopes x x x Over widespread areas: x x x From downstream foundation area: x x x 7 Cracks or scarps on crest: x x x 8 Gracks or scarps on slope: x x x 9 Sloughing or bulging on slope: x x x 11 Surface movements in valley bottom or on hillside: x x <t< td=""><td>MIN</td><td>IE NAME: Peabody Sage Creek Mine</td><td>LOCATION: 7.1 mi. SE of Ha</td><td>yden, Co</td><td>C</td><td></td></t<>	MIN	IE NAME: Peabody Sage Creek Mine	LOCATION: 7.1 mi. SE of Ha	yden, Co	C	
1 Foundation preparation (removal of vegetation, stumps, topsoil: x 2 Lift thickness: N/A 3 Compaction according to approved plan: x 4 Burning (specify extent and location): x 5 Angle of slope:upstream,downstream N/A 6 *Seepage (specify location, color, and approximate volume) r From underdrain pipes x x At isolated points on embanckement slopes x x At natural hillside: x x Over widespread areas: x x From downstream foundation area: x x "Boils" beneath stream or ponded water: x x 7 Cracks or scarps on crest: x x 8 Cracks or scarps on slope: x x 9 Sloughing or bulging on slope: x x 18 Surface movements in valley bottom or on hillside: x x 12 *Erosion of toe: x x x 13 Surface movements in valley bottom or on hillside: x x 14 Existing embankm	MIN	IE I.D. NO.: CMLRD Permit No. C-2009-087	OWNER'S REP.: Miranda Ka	wcak		
2 Lift thickness: N/A 3 Compaction according to approved plan: x 4 Burning (specify extent and location): x 5 Angle of slope:upstream,downstream N/A 6 *Seepage (specify location, color, and approximate volume) From underdrain pipes x At isolated points on embanckement slopes x x At natural hillside: x x Over widespread areas: x x From downstream foundation area: x x "Boils" beneath stream or ponded water: x x 7 Cracks or scarps on crest: x x 8 Cracks or scarps on slope: x x 9 Sloughing or bulging on slope: x x 10 *Major erosion problems: x x 11 Surface movements in valley bottom or on hillside: x x 12 *Erosion of toe: x x 13 *Water impounded against toe: x x 14 Existing embankment freeboard (5.0 is normal when dry): 5 FT 5		CIRCLE OR WRITE IN APPROPRIATE RES	PONSE:	YES	NO	N/A
3 Compaction according to approved plan: x 4 Burning (specify extent and location): x 5 Angle of slope:upstream,downstream N/A 6 *Seepage (specify location, color, and approximate volume) x From underdrain pipes x x At isolated points on embanckement slopes x x At natural hillside: x x Over widespread areas: x x From downstream foundation area: x x 7 Cracks or scarps on crest: x 8 Cracks or scarps on slope: x 9 Sloughing or bulging on slope: x 11 Surface movements in valley bottom or on hillside: x 12 *Frosion of toe: x 13 *Water impounded against toe: x 14 Existing embankment freeboard (5.0 is normal when dry): 5 FT 1 15	1	Foundation preparation (removal of vegetation, stumps, top	soil:	х		
4 Burning (specify extent and location): x 5 Angle of slope:upstream,downstream N/A 6 "Seepage (specify location, color, and approximate volume) x From underdrain pipes x At isolated points on embanckement slopes x At natural hilliside: x Over widespread areas: x From downstream foundation area: x 7 Cracks or scarps on orpoded water: 7 Cracks or scarps on orpoded water: 7 Cracks or scarps on slope: 8 Cracks or scarps on slope: 10 *Major erosion problems: 11 Surface movements in valley bottom or on hillside: 12 *Erosion of toe: 13 *Water impounded against toe: 14 Existing embankment freeboard (5.0 is normal when dry): 5 FT 15	2	Lift thickness: N/A				-
5 Angle of slope:upstream,downstream N/A 6 *Seepage (specify location, color, and approximate volume) x Ar isolated points on embanckement slopes x At natural hillside: x Over widespread areas: x From downstream foundation area: x "Boils" beneath stream or ponded water: x 7 Cracks or scarps on crest: x 8 Cracks or scarps on slope: x 9 Sloughing or bulging on slope: x 10 *Major erosion problems: x 11 Surface movements in valley bottom or on hillside: x 12 *Erosion of toe: x 13 *Water impounded against toe: x 14 Existing embankment freeboard (5.0 is normal when dry): 5 FT 15 15 _Increase	3	Compaction according to approved plan:				х
6 *Seepage (specify location, color, and approximate volume) From underdrain pipes x At isolated points on embanckement slopes x At natural hillside: x Over widespread areas: x From downstream foundation area: x "Boils" beneath stream or ponded water: x 7 Cracks or scarps on crest: x 8 Cracks or scarps on slope: x 9 Sloughing or bulging on slope: x 10<*Major erosion problems:	4	Burning (specify extent and location):				х
From underdrain pipes x At isolated points on embanckement slopes x At natural hillside: x Over widespread areas: x From downstream foundation area: x "Boils" beneath stream or ponded water: x 7 Cracks or scarps on crest: x 8 Cracks or scarps on slope: x 9 Sloughing or bulging on slope: x 10 *Major erosion problems: x 11 Surface movements in valley bottom or on hillside: x 12 *Erosion of toe: x 13 *Water impounded against toe: x 14 Existing embankment freeboard (5.0 is normal when dry): 5 FT 1 15	5	Angle of slope:upstream,downstream			N/A	
At isolated points on embanckement slopes x At natural hillside: x Over widespread areas: x From downstream foundation area: x "Boils" beneath stream or ponded water: x 7 Cracks or scarps on crest: x 8 Cracks or scarps on slope: x 9 Sloughing or bulging on slope: x 10 *Major erosion problems: x 11 Surface movements in valley bottom or on hillside: x 2* *frosion of toe: x x 13 *Water impounded against toe: x x 14 Existing embankment freeboard (5.0 is normal when dry): 5 FT x x 15	6	*Seepage (specify location, color, and approximate volume)				
At natural hillside: x Over widespread areas: x From downstream foundation area: x "Boils" beneath stream or ponded water: x 7 Cracks or scarps on crest: x 8 Cracks or scarps on slope: x 9 Sloughing or bulging on slope: x 10 *Major erosion problems: x 11 Surface movements in valley bottom or on hillside: x 12 *Erosion of toe: x 13 *Water impounded against toe: x 14 Existing embankment freeboard (5.0 is normal when dry): 5 FT		From underdrain pipes				x
Over widespread areas: x From downstream foundation area: x ''Boils'' beneath stream or ponded water: x 7 Cracks or scarps on crest: x 8 Cracks or scarps on slope: x 9 Sloughing or bulging on slope: x 10 *Major erosion problems: x 11 Surface movements in valley bottom or on hillside: x 12 *Erosion of toe: x 13 *Water impounded against toe: x 14 Existing embankment freeboard (5.0 is normal when dry): 5 FT x 15		At isolated points on embanckement slopes				х
From downstream foundation area: x "Boils" beneath stream or ponded water: x 7 Cracks or scarps on crest: x 8 Cracks or scarps on slope: x 9 Sloughing or bulging on slope: x 10 *Major erosion problems: x 11 Surface movements in valley bottom or on hillside: x 12 *Erosion of toe: x 13 *Water impounded against toe: x 14 Existing embankment freeboard (5.0 is normal when dry): 5 FT x 15		At natural hillside:				х
"Boils" beneath stream or ponded water: x 7 Cracks or scarps on crest: x 8 Cracks or scarps on slope: x 9 Sloughing or bulging on slope: x 10 *Major erosion problems: x 11 Surface movements in valley bottom or on hillside: x 12 *Erosion of toe: x 13 *Water impounded against toe: x 14 Existing embankment freeboard (5.0 is normal when dry): 5 FT x 15		Over widespread areas:				x
7 Cracks or scarps on crest: x 8 Cracks or scarps on slope: x 9 Sloughing or bulging on slope: x 10 *Major erosion problems: x 11 Surface movements in valley bottom or on hillside: x 12 *Erosion of toe: x 13 *Water impounded against toe: x 14 Existing embankment freeboard (5.0 is normal when dry): 5 FT x 15		From downstream foundation area:				x
8 Cracks or scarps on slope: x 9 Sloughing or bulging on slope: x 10 *Major erosion problems: x 11 Surface movements in valley bottom or on hillside: x 12 *Erosion of toe: x 13 *Water impounded against toe: x 14 Existing embankment freeboard (5.0 is normal when dry): 5 FT x 15		"Boils" beneath stream or ponded water:			x	
9 Sloughing or bulging on slope: x 10 *Major erosion problems: x 11 Surface movements in valley bottom or on hillside: x 12 *Erosion of toe: x 13 *Water impounded against toe: x 14 Existing embankment freeboard (5.0 is normal when dry): 5 FT x 15	7	Cracks or scarps on crest:				x
10 *Major erosion problems: x 11 Surface movements in valley bottom or on hillside: x 12 *Erosion of toe: x 12 *Erosion of toe: x 13 *Water impounded against toe: x 14 Existing embankment freeboard (5.0 is normal when dry): 5 FT x 15	8	Cracks or scarps on slope:				x
11 Surface movements in valley bottom or on hillside: x 12 *Erosion of toe: x 13 *Water impounded against toe: x 13 *Water impounded against toe: x 14 Existing embankment freeboard (5.0 is normal when dry): 5 FT x 15	9	Sloughing or bulging on slope:				x
12 *Erosion of toe: x 13 *Water impounded against toe: x 14 Existing embankment freeboard (5.0 is normal when dry): 5 FT	10	*Major erosion problems:			x	
13 *Water impounded against toe: x 13 *Water impounded against toe: x 14 Existing embankment freeboard (5.0 is normal when dry): 5 FT	11	Surface movements in valley bottom or on hillside:				х
14 Existing embankment freeboard (5.0 is normal when dry): 5 FT 15	12	*Erosion of toe:				х
15	13	*Water impounded against toe:				х
16 Cracks, bulging, or erosion on upstream face: x 17 Visible sumps or sinkholes in slurry surface: x 17 Visible sumps or sinkholes in slurry surface: x 18 *Clogging x Spillway channels and pipes: x x Decant system: x x Diversion ditches: x x 19 *Cracking or crushing of pipes x Spillway pipes: x x Decant system: x x 20 Trash racks clear and in place: x 21 Discharge rate: 0 GPM K	14	Existing embankment freeboard (5.0 is normal when dry): 5	FT			
17 Visible sumps or sinkholes in slurry surface: x 18 *Clogging Spillway channels and pipes: x Decant system: x Diversion ditches: x 19 *Cracking or crushing of pipes Spillway pipes: x Decant system: x Decant system: x 20 Trash racks clear and in place: x 21 Discharge rate: 0 GPM	15	Increase Decrease in water level: DRY				
*Clogging Spillway channels and pipes: Decant system: Diversion ditches: 19 *Cracking or crushing of pipes Spillway pipes: Decant system: 20 Trash racks clear and in place: 21 Discharge rate: O GPM	16	Cracks, bulging, or erosion on upstream face:				x
Spillway channels and pipes: x Decant system: x Diversion ditches: x 19 *Cracking or crushing of pipes Spillway pipes: x Decant system: x 20 Trash racks clear and in place: x 21 Discharge rate: OFM *Major adverse changes in these items could cause instability and should be reported to the Engineering Manager	17	Visible sumps or sinkholes in slurry surface:				х
Decant system: x Diversion ditches: x 19 *Cracking or crushing of pipes Spillway pipes: x Decant system: x 20 Trash racks clear and in place: x 21 Discharge rate: 0 GPM *Major adverse changes in these items could cause instability and should be reported to the Engineering Manager	18	*Clogging				-
Diversion ditches: x 19 *Cracking or crushing of pipes Spillway pipes: x Decant system: x 20 Trash racks clear and in place: 21 Discharge rate: 0 GPM *Major adverse changes in these items could cause instability and should be reported to the Engineering Manager		Spillway channels and pipes:			х	
*Cracking or crushing of pipes Spillway pipes: Decant system: 20 Trash racks clear and in place: x 21 Discharge rate: O GPM		Decant system:				x
Spillway pipes: x Decant system: x 20 Trash racks clear and in place: x 21 Discharge rate: 0 GPM *Major adverse changes in these items could cause instability and should be reported to the Engineering Manager		Diversion ditches:				x
Decant system: x 20 Trash racks clear and in place: x 21 Discharge rate: 0 GPM *Major adverse changes in these items could cause instability and should be reported to the Engineering Manager	19	*Cracking or crushing of pipes				
20 Trash racks clear and in place: x 21 Discharge rate: 0 GPM *Major adverse changes in these items could cause instability and should be reported to the Engineering Manager		Spillway pipes:			х	
21 Discharge rate: 0 GPM *Major adverse changes in these items could cause instability and should be reported to the Engineering Manager		Decant system:				x
*Major adverse changes in these items could cause instability and should be reported to the Engineering Manager	20	Trash racks clear and in place:		х		
	21	Discharge rate: 0 GPM				
and Mine Superintendent for further evaluation. Adverse conditions noted in these items should normally be	*M	ajor adverse changes in these items could cause instability an	d should be reported to the Ei	ngineerin	ng Manag	ger
described (system testing values at barry CNOW COVERED	and			ld norma	ally be	

described (extextent, location, volume, etc.) here: SNOW COVERED.

	PERIODIC INSPECTION FORM: Water, S	ediment, or Slurry Impoundr	nents		
INS	PECTOR'S NAME: Jason Herden	DATE: 03/27/24			
NP	DES I.D. NO.: N/A	<u> </u>			
	ILITY CONFIGURATION: Diked Pond	DATE LAST INSPECTION: 11	/07/23		
SITE	E NAME: Upper Sump	LOCATION: NW¼, Sec. 3, T		V7W	
	NE NAME: Peabody Sage Creek Mine	LOCATION: 7.1 mi. SE of Ha			
MIN	NE I.D. NO.: CMLRD Permit No. C-2009-087	OWNER'S REP.: Miranda Ka	wcak		
	CIRCLE OR WRITE IN APPROPRIATE RES	PONSE:	YES	NO	N/A
1	Foundation preparation (removal of vegetation, stumps, top	soil:	х		Ī
2	Lift thickness:				
3	Compaction according to approved plan:		х		
4	Burning (specify extent and location):			х	
5	Angle of slope:upstream,downstream			N/A	-
6	*Seepage (specify location, color, and approximate volume)				
	From underdrain pipes				х
	At isolated points on embanckement slopes			х	
	At natural hillside:			x	
	Over widespread areas:			х	
	From downstream foundation area:		х		
	"Boils" beneath stream or ponded water:			x	
7	Cracks or scarps on crest:			x	
8	Cracks or scarps on slope:			x	
9	Sloughing or bulging on slope:			x	
10	*Major erosion problems:			x	
11	Surface movements in valley bottom or on hillside:			x	
12	*Erosion of toe:			х	
13	*Water impounded against toe:			х	
14	Existing embankment freeboard: 0 FT				
15	Increase Decrease in water level: 0.1 FT ABOVE	SPILLWAY		_	
16	Cracks, bulging, or erosion on upstream face:			х	
17	Visible sumps or sinkholes in slurry surface:				х
18	*Clogging				
	Spillway channels and pipes:			х	
	Decant system:				х
	Diversion ditches:				х
19	*Cracking or crushing of pipes				
	Spillway pipes:			х	
	Decant system:				х
-	Trash racks clear and in place:		х		
	Discharge rate: 73 GPM				
	ajor adverse changes in these items could cause instability an	-	-		ger
	Mine Superintendent for further evaluation. Adverse conditi		ld norma	illy be	
des	cribed (extextent, location, volume, etc.) here: SNOW COVER	ED.			

	PERIODIC INSPECTION FORM: Water, S	ediment, or Slurry Impoundr	nents		
INS	PECTOR'S NAME: Jason Herden	DATE: 03/27/24			
NP	DES I.D. NO.: N/A				
FAC	ILITY CONFIGURATION: Diked Pond	DATE LAST INSPECTION: 11	/07/23		
SITE	NAME: Portal Sump #1 (Upper North)	LOCATION: NW¼, Sec. 3, T		v	
	IE NAME: Peabody Sage Creek Mine	LOCATION: 7.1 mi. SE of Ha			
MIN	NE I.D. NO.: CMLRD Permit No. C-2009-087	OWNER'S REP.: Miranda Ka	wcak		
	CIRCLE OR WRITE IN APPROPRIATE RES	PONSE:	YES	NO	N/A
1	Foundation preparation (removal of vegetation, stumps, top	soil:	х		
2	Lift thickness = 12 IN				<u> </u>
3	Compaction according to approved plan:		х		
4	Burning (specify extent and location):			х	
5	Angle of slope:upstream,downstream			N/A	<u> </u>
6	*Seepage (specify location, color, and approximate volume)				
	From underdrain pipes				х
	At isolated points on embanckement slopes				х
	At natural hillside:				х
	Over widespread areas:				х
	From downstream foundation area:				х
	"Boils" beneath stream or ponded water:			х	
7	Cracks or scarps on crest:				х
8	Cracks or scarps on slope:				х
9	Sloughing or bulging on slope:				х
10	*Major erosion problems:			х	
11	Surface movements in valley bottom or on hillside:			х	
12	*Erosion of toe:				х
13	*Water impounded against toe:				х
14	Existing embankment freeboard:			-	
15	Increase Decrease in water level: 1.3 FT BELOW	SPILLWAY			
16	Cracks, bulging, or erosion on upstream face:				х
17	Visible sumps or sinkholes in slurry surface:				х
18	*Clogging				
	Spillway channels and pipes:			х	
	Decant system:				х
	Diversion ditches:				х
19	*Cracking or crushing of pipes				
	Spillway pipes:			х	
	Decant system:				х
20	Trash racks clear and in place:				х
21	Discharge rate: 0 GPM				
	ajor adverse changes in these items could cause instability an	-	-		ger
	Mine Superintendent for further evaluation. Adverse conditi cribed (extextent, location, volume, etc.) here: SNOW COVER		lia norma	illy be	
ues	LINE (EXTERT, INCUTION, VOIDINE, ETC.) HERE. SNOW COVER	L_{J} FNUZLIN.			

	PERIODIC INSPECTION FORM: Water,	Sediment, or Slurry Impound	ments		
INS	PECTOR'S NAME: Jason Herden	DATE: 03/27/24			
NP	DES I.D. NO.: N/A	- <u>I</u>			
FAC	CILITY CONFIGURATION: Diked Pond	DATE LAST INSPECTION: 11	/07/23		
SITE	E NAME: Portal Sump #2 (Lower South)	LOCATION: NW¼, Sec. 3, T	5N, R87V	v	
MIN	NE NAME: Peabody Sage Creek Mine	LOCATION: 7.1 mi. SE of Ha	ayden, CO	C	
MIN	NE I.D. NO.: CMLRD Permit No. C-2009-087	OWNER'S REP.: Miranda Ka	wcak		
	CIRCLE OR WRITE IN APPROPRIATE RE	SPONSE:	YES	NO	N/A
1	Foundation preparation (removal of vegetation, stumps, to	osoil:	х		
2	Lift thickness: 12 IN				_
3	Compaction according to approved plan:		х		
4	Burning (specify extent and location):			х	
5	Angle of slope:upstream,downstream			N/A	
6	*Seepage (specify location, color, and approximate volume				
	From underdrain pipes				х
	At isolated points on embanckement slopes				х
	At natural hillside:				х
	Over widespread areas:				х
	From downstream foundation area:				х
	"Boils" beneath stream or ponded water:			х	
7	Cracks or scarps on crest:				х
8	Cracks or scarps on slope:				х
9	Sloughing or bulging on slope:				х
10	*Major erosion problems:			x	
11	Surface movements in valley bottom or on hillside:			x	
12	*Erosion of toe:				х
13	*Water impounded against toe:				х
14	Existing embankment freeboard:				
15	Increase Decrease in water level:				
16	Cracks, bulging, or erosion on upstream face:				х
17	Visible sumps or sinkholes in slurry surface:				х
18	*Clogging				-
	Spillway channels and pipes:			x	
	Decant system:				х
	Diversion ditches:				х
19	*Cracking or crushing of pipes		-	-	
	Spillway pipes:			х	
	Decant system:				х
20	Trash racks clear and in place:				х
21	Discharge rate: 0 GPM				
*M	ajor adverse changes in these items could cause instability a	nd should be reported to the E	ngineerin	ng Mana	ger
and	Mine Superintendent for further evaluation. Adverse condition	ions noted in these items shou	ıld norma	ally be	
-1	with a d (autoutout location welves, atc.) have SNOW COVE				

described (extextent, location, volume, etc.) here: SNOW COVERED.

IMPOUNDMENT INSPECTION LOG

JOB DATA

JOB NAME: PEC Hydrologic Services

CLIENT: Peabody

JOB(s): 2023-086 (PSCM), 2023-087 (SCC)

FLOW DATA

BIN B	CZZK Maintenance (YIN)
003 Sage Creek Sage Creek 3. 76. M O. K. Snow Covered	N N N
003 Sage Creek Sage Creek 3. 76. M O. Snow Covered	N N
	N
Lower Sump Sage Creek Sage Creek 3.7.81 0.2 98,6 Snow Covered	
Pecoco Sage Creek Sage Creek J. 27.24 O. Z 29,7 Snow Covered	
Portal Sump 1 Sage Creek Sage Creek 3-27-24 and - Snow Covered, form	\mathcal{N}
	\mathcal{N}
Spill Control 2 Sage Creek Sage Creek 3-27-24 - 5now Covered	N
Truck Wash Sage Creek Sage Creek J-27-24 ~ - Snow covered Din	\mathcal{N}
Upper Sump Sage Creek Sage Creek 3-27-24 01 73 5now Covered	\mathcal{N}
006 Seneca Il West J.76 1 0.1 37.3 grow Correled	N
015 Seneca Seneca II West 3-86-84 -1.0 - Snow covered	\mathcal{N}
016 Seneca Seneca II West 3-86.24 O.1 33.7 Snow covered	N
017 Seneca Seneca II West 3-E4-EU -0.1 - Snow Greed	\mathcal{N}
T-2 Seneca II West 3-76-71 ~ ~ winter	1
T-3 Seneca II West 3-76-74 - Wintof	~
010 Seneca Yoast J~26-24 O.1 9,6 Show Covered	\mathcal{N}
011 Seneca Yoast 3-87-74 -8.5 - Show Covered	N
011A Seneca Yoast 3-37-34 - Winfer	~
012 Seneca Yoast 3-96-34 O.] JS.7 Show Covered	N
	N
013 Seneca Yoast J. 76-24 -0.2 - Snow Covered	$\mathcal{N}_{\mathcal{I}}$
014 Seneca Yoast 3-261.5 ~ Show Covered	N

FIELD PERSONNEL: JH

FIELD PERSONNEL SIGNATURE:

NOTES

MWC ENGINEERING IMPOUNDMENT INSPECTION LOG