



October 16, 2021

Robin Reilley Colorado Division of Reclamation, Mining and Safety 1313 Sherman St., Room 215 Denver, CO 80203

RE: 3rd Quarter and Annual Pond Inspections – Williams Fork Mine (C 1981-044)

Ms. Reilley:

Enclosed are the 3rd quarter 2021 and Annual pond inspection reports for the Williams Fork Mine. I personally inspected each pond and have provided a Professional Engineer's Statement on the following page of this letter to accompany the inspection reports. Please contact me if there are any questions or if you need any additional information.

Best Regards,

Miranda Kawcak

Environmental Manager

Peabody, Colorado Operations

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Attachments:

Professional Engineer Certification Inspection Reports

CERTIFICATION

I, Miranda Lynn Kawcak, a registered engineer in the State of Colorado do hereby certify that I have reviewed the attached Williams Fork Mine Sediment Pond Reports covering the third quarter of 2021, and that they are true and correct to the best of my knowledge and belief.

Miranda Lynn Kawcak
CO P.E. No. 59419

Date



OPERATOR: EMPIRE CORPORATION				
MINE: <u>EMPIRE NOS. 5 & 6 MINES</u>				
DATE OF INSPECTION: 9/16/21				
POND INSPECTION	SH-P1	2 SH-P2	3	4
	V			
	SED. POND	SED. POND	·	
CDFS OUTFALL#	011	012]
OPERATIONAL STATUS AT TIME OF INS	PECTION			
Approximate water level:	Roll	1 Day		
Sediment level (% total storage):	450	10		
Outflow (cfs):	0			
FEATURES		DI ERA	C O 8 4 8	MENTS
PEATURES	YES	BLEM NO	COM	HENIS
EROSIONAL				
Rills & Gullies on Embankment				
Inadequate Vegetation		V		
Outlet Channel Erosion		1		
Burrows				
Other		V		
STRUCTURAL				
Differential Setting		_		
Cracks or slides				
Seepage				
Other				
ound.				
APPURTENANT STRUCTURES				
Defective Spillways		<i></i>		
Dewatering Device Clogged		1		
Faulty Gates, Baffles, Pump		1/		
Other				
ADDITIONAL COMMENTS:				
MAINTENANCE REQUIRED: NONC	/			
NAME OF INSPECTOR: M. Kai	wall			

OPERATOR: EMPIRE CORPORATION				
MINE: EMPIRE NOS. 5 & 6 MINES				
\overline{alula}				
DATE OF INSPECTION:				
DOND INCRECTION	1 HR-P1A	2 HR-P1B	3	4 I
POND INSPECTION	HR-PIA	III.		
	SED. POND	SED. POND		
CDFS OUTFALL#		004		
ODEDATIONAL STATUS AT TIME OF INSI	DECTION			
OPERATIONAL STATUS AT TIME OF INSI	PECTION	_		
Approximate water level:	Box	h Dr	1	
Sediment level (% total storage):	2501	0)	
Outflow (cfs):	0			
	·			
FEATURES	1	BLEM	COM	MENTS
EDOCIONAL	YES	NO		
EROSIONAL				
Rills & Gullies on Embankment Inadequate Vegetation				
Outlet Channel Erosion				
Burrows Other				
Other				
STRUCTURAL				
Differential Setting				
Cracks or slides		100		
Seepage		1		
Other				
APPURTENANT STRUCTURES				
Defective Spillways				
Dewatering Device Clogged				
Faulty Gates, Baffles, Pump				
Other	<u></u>			
ADDITIONAL COMMENTS:				
12000				
MAINTENANCE REQUIRED: WONL				
· N 2 1 2				
NAME OF INSPECTOR:	awa	ele		

OPERATOR: EMPIRE CORPORATION				
MINE: <u>EMPIRE NOS. 5 & 6 MINES</u>				
DATE OF INSPECTION: 9/16/20				
	1	2	3	4
POND INSPECTION	9-P1	9-P2	9-P3	9-P4
	SED. POND	SED. POND	SED. POND	SED. POND
CDFS OUTFALL #			024	014
OPERATIONAL STATUS AT TIME OF INS	PECTION			
Approximate water level:	AU_	Dry		
Sediment level (% total storage):	L501	o o		
Outflow (cfs):	<u> </u>	13		
FEATURES		BLEM	COM	MENTS
EDOCIONAL	YES	NO		
EROSIONAL Rills & Gullies on Embankment				
Inadequate Vegetation		1/		
Outlet Channel Erosion	-	1	1	
Burrows		1.1	1	
Other			j	
STRUCTURAL				
		1		
Differential Setting Cracks or slides			-	
			-	
Seepage Other		- L	-	
Other				
APPURTENANT STRUCTURES	†			
Defective Spillways		1		
Dewatering Device Clogged		1		
Faulty Gates, Baffles, Pump				
Other				
ADDITIONAL COMMENTS:	0 1			
Minor Anin	ral D	Menni	3	
MAINTENANCE REQUIRED: None				
NAME OF INSPECTOR: MACCUS		.		
NAME OF INSPECTOR: / VI/COLO	care			

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OPERATOR: EMPIRE CORPORATION				
MINE: <u>EMPIRE NOS. 5 & 6 MINES</u>				
DATE OF INSPECTION: $9/16/21$				
POND INSPECTION	9-P5	9-P6	3 9-P7	9-P8
POND INSPECTION	13-43	1,	3-11	J-10
	SED. POND	SED. POND	SED. POND	SED. POND
CDFS OUTFALL#	017	015	013	016
OPERATIONAL STATUS AT TIME OF INS	PECTION			
Approximate water level:	All	Das		
Sediment level (% total storage):	100	15 J		
Outflow (cfs):	-3.	<i></i>		
FEATURES	PRO YES	BLEM NO	COM	MENTS
EROSIONAL	169	NO	 	
Rills & Gullies on Embankment		V		
Inadequate Vegetation		1		
Outlet Channel Erosion			1	
Burrows		'	-	
Other		V	1	
STRUCTURAL				
Differential Setting				
Cracks or slides		1/		
Seepage	,,.			
Other		1	_	
APPURTENANT STRUCTURES				
Defective Spillways			-	
Dewatering Device Clogged		1	-	
Faulty Gates, Baffles, Pump			-	
Other ADDITIONAL COMMENTS:				
Minor Anima	e bur	rows		
MAINTENANCE REQUIRED: MONE				
NAME OF INSPECTOR: M, Wawa	alı		Literature.	

OPERATOR: EMPIRE CORPORATION				
MINE: <u>EMPIRE NOS. 5 & 6 MINES</u>				
DATE OF INSPECTION: 9/16/21	······································		•	4
POND INSPECTION	Spoil Springs	2	3	4
CDFS OUTFALL #)22 Site 1S	P		<u></u>
OPERATIONAL STATUS AT TIME OF INS	PECTION			
Approximate water level:	Dry			
Sediment level (% total storage):	(5°B			
Outflow (cfs):	(2			
FEATURES	PROF	3LEM	COM	/IENTS
	YES	NO		
EROSIONAL				
Rills & Gullies on Embankment				
Inadequate Vegetation		V		
Outlet Channel Erosion				
Burrows		1		
Other		V		
STRUCTURAL				
Differential Setting		V		
Cracks or slides		V		
Seepage		1		
Other		./		
		۵		
APPURTENANT STRUCTURES				
Defective Spillways				
Dewatering Device Clogged		ν		
Faulty Gates, Baffles, Pump				
Other				
ADDITIONAL COMMENTS:				
MAINTENANCE REQUIRED: Wier	rusted	, need	. replau	ced
NAME OF INSPECTOR: M. Kaw	ale			

OPERATOR: EMPIRE CORPORATION				
MINE: <u>EMPIRE NOS. 5 & 6 MINES</u>				
9/1/21				
DATE OF INSPECTION:///b/ &_	1	2	3	4
POND INSPECTION	5-P1	5-P2	5-P3	*
TOND MOI LOTTON	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	V	V	
	SED. POND	SED. TRAP	SED. TRAP	
		<u> </u>	<u> </u>	
CDFS OUTFALL #	007			
OPERATIONAL STATUS AT TIME OF INS	PECTION			
	N 11	Ω_{CL}		
Approximate water level:	<501	219		
Sediment level (% total storage):	- 20 T	0		
Outflow (cfs):				
FEATURES	PRO	BLEM	COMN	MENTS
	YES	NO		
EROSIONAL				
Rills & Gullies on Embankment		<u>/</u>		
Inadequate Vegetation		1	1	
Outlet Channel Erosion		-		
Burrows				
Other		W	_	
STRUCTURAL				
Differential Setting		10		
Cracks or slides				
Seepage		-	1	
Other		1		
			1	
APPURTENANT STRUCTURES				
Defective Spillways		1/		
Dewatering Device Clogged				
Faulty Gates, Baffles, Pump				
Other				
ADDITIONAL COMMENTS:				
MAINTENANCE REQUIRED: VONC	,			
NAME OF INSPECTOR: M. Kau	cah			

OPERATOR: EMPIRE CORPORATION				
MINE: <u>EMPIRE NOS. 5 & 6 MINES</u>				
DATE OF INSPECTION: 9/16/21				
POND INSPECTION	1 5-P5	2 5-P6	3 5-P7	4
TOND MOI ESTION	3-1-3	3-1 0		
	SED. POND	SED. POND	SED. POND	
CDFS OUTFALL#	003	003	003	
OPERATIONAL STATUS AT TIME OF INSI	PECTION		Λ	
Approximate water level:	RE	edain	<u>ned</u>	201
Sediment level (% total storage): Outflow (cfs):				
Outilow (dis).	· · · ·	_		
FEATURES		BLEM	COMM	IENTS
FROMOMA	YES	NO		
EROSIONAL		NA		
Rills & Gullies on Embankment				
Inadequate Vegetation Outlet Channel Erosion				
Burrows				
Other				
One	<u> </u>		1	
STRUCTURAL				
Differential Setting				
Cracks or slides				
Seepage				
Other				
APPURTENANT STRUCTURES				
Defective Spillways				
Dewatering Device Clogged				
Faulty Gates, Baffles, Pump Other				
ADDITIONAL COMMENTS:	L			
MAINTENANCE REQUIRED:				

NAME OF INSPECTOR: M, KUWCAK

OPERATOR: EMPIRE CORPORATION				
MINE: EMPIRE NOS. 5 & 6 MINES				
$\alpha l \cdot l =$				
DATE OF INSPECTION: 4116121		9	3	4
POND INSPECTION	9A-P1	9A-P2	9A-P3	9A-P4
, 0,10 110, 20 110.1				
	SED. POND	SED. POND	SED. POND	SED. POND
CDFS OUTFALL#	018	019	020	021
OPERATIONAL STATUS AT TIME OF INSPE	<u>CTION</u>			
Anna vimoto viotos lovoli	Q11	Day		
Approximate water level: Sediment level (% total storage):	45010	37,0		
Outflow (cfs):	0			
FEATURES	YES	OBLEM NO		MMENTS
EROSIONAL	TES	NO		
Rills & Gullies on Embankment				
Inadequate Vegetation				
Outlet Channel Erosion				
Burrows		<i>j</i>		
Other				
STRUCTURAL				
Differential Setting				
Cracks or slides		1		
Seepage		-		
Other		V		
APPURTENANT STRUCTURES				
Defective Spillways		1		
Dewatering Device Clogged				
Faulty Gates, Baffles, Pump				
Other				
ADDITIONAL COMMENTS:				
MAINTENANCE REQUIRED: NONC				
MAINTENANTOE REGORDED. MAINTE				
NAME OF INSPECTOR: M KOLU	rale			
NAME OF INSPECTOR: VIV KOLU	<u> </u>			

OPERATOR: EMPIRE CORPORATION				
MINE: <u>EMPIRE NOS. 5 & 6 MINES</u>				
DATE OF INSPECTION: 9/16/20				
POND INSPECTION	1 5A-P1	2	3	4
	SED. POND			
CDFS OUTFALL#	009			
OPERATIONAL STATUS AT TIME OF INS	PECTION			
Approximate water level:	_ Dr	1		
Sediment level (% total storage):	<5°0	<i>O</i>		
Outflow (cfs):				
FEATURES	PROI YES	BLEM NO	COM	MENTS
EROSIONAL	120	110		
Rills & Gullies on Embankment		١٨		
Inadequate Vegetation		1		
Outlet Channel Erosion				
Burrows				
Other		- V		
ouid.	-			
STRUCTURAL				
Differential Setting		1/		
Cracks or slides		<i></i>		
Seepage				
Other		V		
APPURTENANT STRUCTURES				
Defective Spillways		1/		
Devatering Device Clogged				
Faulty Gates, Baffles, Pump				
Other				
ADDITIONAL COMMENTS:	J		<u>., , </u>	
Portal recta	maticu	1100	70g res	2
MAINTENANCE REQUIRED: WMC				
NAME OF INSPECTOR: Millawa	ale			

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OPERATOR: EMPIRE CORPORATION				
MINE: EMPIRE NOS. 5 & 6 MINES				
DATE OF INSPECTION: 9/16/21				
POND INSPECTION	1 WASTEWATI	2 =R	3	4
I OND INCI ESTION	1			
	TREATMENT			
CDFS OUTFALL #	023			
OPERATIONAL STATUS AT TIME OF INSI	PECTION			
Approximate water level:	Rec	daine	d 2	019
Sediment level (% total storage):				
Outflow (cfs):				
FEATURES	PRO	BLEM	COM	MENTS
	YES	NO		
EROSIONAL				
Rills & Gullies on Embankment				
Inadequate Vegetation				
Outlet Channel Erosion				
Burrows				
Other	ļ			
STRUCTURAL				****
Differential Setting				
Cracks or slides	•			
Seepage				
Other				
APPURTENANT STRUCTURES				
Defective Spillways				
Dewatering Device Clogged				
Faulty Gates, Baffles, Pump				
Other				· Manner
ADDITIONAL COMMENTS: MAINTENANCE REQUIRED:				

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