BOWIE RESOURCES, LLC BOWIE NO. 1 MINE

2019 IMPOUNDMENT YEARLY INSPECTION

In accordance with Rule 4.05.9(14), all impoundments shall be inspected at least yearly to determine if the impoundment has been maintained as designed, and in accordance with the approved plan and the applicable regulations. This yearly inspection is for the impoundments located at the Bowie No. 1 Mine.

On March 28, 2019, I performed the required yearly inspection. I, J. E. Stover, have a wide variety of experience in the design and construction of earth fill embankments. Nothing was observed during the inspection that would indicate the ponds have a potential for failure. There was no appearance of erosion, instability, structural weakness or other hazardous conditions. There are no required monitoring procedures or instrumentation other than quarterly and yearly inspections. There are no aspects which might affect stability and there is no required maintenance. None of the ponds were discharging during the inspection.

The condition of the impoundments during the inspection are listed below:

Pond	Condition	Water Elev.
West Mine W-1	Dry	N/A
West Mine W-2	Dry	N/A
Coal Stockpile SH-133	Pool of Water	5732
Loadout	Dry	N/A

The impoundments have the following estimated capacities:

IMPOUNDMENT CAPACITIES - ACRE FEET			
	Water	Sediment	Total
West Mine W-1	0.54	0.25	0.79
West Mine W-2	0.67	0.38	1.05
Coal Stockpile SH-133	0.19	0.16	0.35
Loadout	N/A	N/A	1.8

Notes:

- Capacities are obtained from the permit document except for the ponds located at the west mine.
- The capacity of the west mine impoundments, Ponds W-1 and W-2 were certified by the undersigned on August 29, 2002.
- The sediment capacity of the ponds may be less than shown in the table because of interim sediment accumulation.
- 4. N/A means not available or not applicable.

To the best of my knowledge and belief, the impoundments have been maintained as designed and in accordance with the approved plan and applicable regulations.

James E. Stover

Date

Colorado Professional Engineer

Registration No. 19230

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dditional Comments		
ther	Gate Closed	A 20 / 10 / 10 / 10 / 10 / 10 / 10 / 10 /
aulty Gates, Baffles, Pumps	No	
ewatering Device Clogged	No	
efective Spillway	No	
ppurtenant Structures		
ther		
eepage	No	
racks or Slides	No	
ifferential Settling	No	
Structural:		
ullei		
urrows Other	110	
urrows	No	
nadequate Vegetation Outlet Channel Erosion	No No	A A A A A A A A A A A A A A A A A A A
ills & Gullies on Embankment	No No	
Features:		Comments
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pproximate Sediment Elevation at Time of Insper Outflow (C.F.S.)	CHOIL.	5720.00' 0.00
pproximate Water Elevation at Time of Inspection		DRY 5730.00'
Eleanout Elevation: 5721.00		DDV
rimary Elevation: 5724.00		
nspected By: brb		
nspection Date: 14-Mar-19		
Quarter: 1		
oadout Pond		
Sedimentation Pond		

Bowie Resources LLC				MANINOSTA ALPANTINIO MAIO ARRAGA DO DENIGA DI MANINOSTA DI MANINOSTA DI MANINOSTA DI MANINOSTA DI MANINOSTA DI
Bowie #1 Mine				
Sedimentation Pond				
Highway Pond				
and and				
Quarter: 1				
Inspection Date: 14-Mar-	19			
Inspected By: brb				
Primary Elevation: 573	4.00			
Cleanout Elevation: 573	4.00	***************************************		
Approximate Water Elevation at Time	of Inspection:		5732.00'	
Approximate Sediment Elevation at ী	ime of Inspection:		5730.00'	
Outflow (C.F.S.)			0.00	
Features:	Г		Comments	
Fills & Gullies on Embankment		No		
Inadequate Vegetation		No		
Outlet Channel Erosion		No		
Burrows		No		
Other				
Structural:				
Differential Settling		No	1	
Cracks or Slides		No		
Seepage		No		
Other		110		
·				
Appurtenant Structures				
Defective Spillway		No	7	
Dewatering Device Clogged		No		
Faulty Gates, Baffles, Pumps		No		
Other			(3 SF #)	
			@C\$0 [F]	1/3 7 %
Additional Comments				
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Bowie Resources LLC		
Bowie #1 Mine		
Sedimentation Pond		
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WM WS-1 Pond		
Quarter: 1		
Inspection Date: 14-Mar-19		
Inspected By: brb		
Primary Elevation: 7,064.50		
Cleanout Elevation: 7,064.50		And the second s
Approximate Water Elevation at Time of Ins	pection:	DRY
Approximate Sediment Elevation at Time of	Inspection:	7061.00'
Outflow (C.F.S.)		0.00
Features:		Comments
Fills & Gullies on Embankment	No	
Inadequate Vegetation	No	
Outlet Channel Erosion	No	
Burrows	No	
Other	No	
Structural:		
Differential Settling	No	
Cracks or Slides	No	
Seepage Seepage	No	
Other		
Caro	· · · · · · · · · · · · · · · · · · ·	
Appurtenant Structures		
Defective Spillway	No	
Dewatering Device Clogged	No	
Faulty Gates, Baffles, Pumps	· No	
Other	Gate Closed	
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Additional Comments		
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Bowie Resources LLC		
Bowie #1 Mine	•	
Sedimentation Pond		
Sedimentation Ford		
WM WS-2 Pond		
Aatat Aa2=5 LOHG		
Oundar 1		
Quarter: 1		
Inspection Date: 14-Mar-19		
Inspected By: brb		
Primary Elevation: 7095.80		
Primary Elevation: 7095.80 Cleanout Elevation: 7095.80		
	otion	DRY
Approximate Water Elevation at Time of Inspe Approximate Sediment Elevation at Time of In		7091.00'
Outflow (C.F.S.)	apecuvii.	0.00
Outhow (C.F.S.)		0.00
Features:		Comments
Fills & Gullies on Embankment	No	O THING THE
Inadequate Vegetation	No	
Outlet Channel Erosion	No	
Burrows	No	
Other	No	
Structural:		
Differential Settling	No	
Cracks or Slides	No	
Seepage	NO	
Other		
	•	
Appurtenant Structures		
Defective Spillway	No	
Dewatering Device Clogged	No	
Faulty Gates, Baffles, Pumps	No	
Other	Gate Open	
Additional Comments		
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