

OPERATOR: EMPIRE CORPORATION

MINE: EMPIRE NOS. 5 & 6 MINES

DATE OF INSPECTION: 11/18/2019

POND INSPECTION

	1	2	3	4
Spoil Springs				
✓				

CDFS OUTFALL #

022 Site 1SP

**OPERATIONAL STATUS AT TIME OF INSPECTION**

Approximate water level:

No Flow

Sediment level (% total storage):

\_\_\_\_\_

Outflow (cfs):

\_\_\_\_\_

FEATURES	PROBLEM		COMMENTS
	YES	NO	
<b>EROSIONAL</b>			
Rills & Gullies on Embankment		✓	
Inadequate Vegetation		✓	
Outlet Channel Erosion		✓	
Burrows		✓	
Other		✓	
<b>STRUCTURAL</b>			
Differential Setting		✓	
Cracks or slides		✓	
Seepage		✓	
Other		✓	
<b>APPURTENANT STRUCTURES</b>			
Defective Spillways		✓	
Dewatering Device Clogged		✓	
Faulty Gates, Baffles, Pump	✓		
Other		✓	
<b>ADDITIONAL COMMENTS:</b> <u>Wier to be replaced or repair spring 2020</u>			
<b>MAINTENANCE REQUIRED:</b>			

NAME OF INSPECTOR: M. Kawcale







OPERATOR: EMPIRE CORPORATION

MINE: EMPIRE NOS. 5 & 6 MINES

DATE OF INSPECTION: 11/18/2019

POND INSPECTION

1	2	3	4
5-P5	5-P6	5-P7	
SED. POND ✓	SED. POND ✓	SED. POND ✓	
003	003	003	

CDFS OUTFALL #

**OPERATIONAL STATUS AT TIME OF INSPECTION**

Approximate water level:

Sediment level (% total storage):

Outflow (cfs):

Pond Reclaimed Oct 2018

FEATURES	PROBLEM		COMMENTS
	YES	NO	
<b>EROSIONAL</b>			
Rills & Gullies on Embankment		NA	
Inadequate Vegetation			
Outlet Channel Erosion			
Burrows			
Other			
<b>STRUCTURAL</b>			
Differential Settling			
Cracks or slides			
Seepage			
Other			
<b>APPURTENANT STRUCTURES</b>			
Defective Spillways			
Dewatering Device Clogged			
Faulty Gates, Baffles, Pump			
Other			
<b>ADDITIONAL COMMENTS:</b>			
<b>MAINTENANCE REQUIRED:</b>			

NAME OF INSPECTOR: M. Kawrak



OPERATOR: EMPIRE CORPORATION

MINE: EMPIRE NOS. 5 & 6 MINES

DATE OF INSPECTION: 11/18/2019

POND INSPECTION

1	2	3	4
9A-P1	9A-P2	9A-P3	9A-P4
SED. POND ✓	SED. POND ✓	SED. POND ✓	SED. POND ✓
018	019	020	021

CDFS OUTFALL #

**OPERATIONAL STATUS AT TIME OF INSPECTION**

Approximate water level:

Sediment level (% total storage):

Outflow (cfs):

All Dry  
< 10%  
0 cfs

FEATURES	PROBLEM		COMMENTS
	YES	NO	
<b>EROSIONAL</b>			
Rills & Gullies on Embankment		✓	
Inadequate Vegetation		✓	
Outlet Channel Erosion		✓	
Burrows		✓	
Other		✓	
<b>STRUCTURAL</b>			
Differential Setting		✓	
Cracks or slides		✓	
Seepage		✓	
Other		✓	
<b>APPURTENANT STRUCTURES</b>			
Defective Spillways		✓	
Dewatering Device Clogged		✓	
Faulty Gates, Baffles, Pump		✓	
Other		✓	
<b>ADDITIONAL COMMENTS:</b> <u>Filing with NRC to convert &amp; permit ponds as livestock water tanks.</u>			
<b>MAINTENANCE REQUIRED:</b>			

NAME OF INSPECTOR: M. Hawick





OPERATOR: EMPIRE CORPORATION

MINE: EMPIRE NOS. 5 & 6 MINES

DATE OF INSPECTION: 11/18/2019

POND INSPECTION

1	2	3	4
9-P1	9-P2	9-P3	9-P4
SED. POND	SED. POND	SED. POND	SED. POND
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

CDFS OUTFALL #

024 014

**OPERATIONAL STATUS AT TIME OF INSPECTION**

Approximate water level:

AN Day

Sediment level (% total storage):

<5%

Outflow (cfs):

0

FEATURES	PROBLEM		COMMENTS
	YES	NO	
<b>EROSIONAL</b>			
Rills & Gullies on Embankment		<input checked="" type="checkbox"/>	
Inadequate Vegetation		<input checked="" type="checkbox"/>	
Outlet Channel Erosion		<input checked="" type="checkbox"/>	
Burrows		<input checked="" type="checkbox"/>	
Other		<input checked="" type="checkbox"/>	
<b>STRUCTURAL</b>			
Differential Setting		<input checked="" type="checkbox"/>	
Cracks or slides		<input checked="" type="checkbox"/>	
Seepage		<input checked="" type="checkbox"/>	
Other		<input checked="" type="checkbox"/>	
<b>APPURTENANT STRUCTURES</b>			
Defective Spillways		<input checked="" type="checkbox"/>	
Dewatering Device Clogged		<input checked="" type="checkbox"/>	
Faulty Gates, Baffles, Pump		<input checked="" type="checkbox"/>	
Other		<input checked="" type="checkbox"/>	
<b>ADDITIONAL COMMENTS:</b>			
<b>MAINTENANCE REQUIRED:</b> <u>None</u>			

NAME OF INSPECTOR: M. Kawrak



OPERATOR: EMPIRE CORPORATION

MINE: EMPIRE NOS. 5 & 6 MINES

DATE OF INSPECTION: 11/18/2019

**POND INSPECTION**

1	2	3	4
9-P5	9-P6	9-P7	9-P8
SED. POND ✓	SED. POND ✓	SED. POND ✓	SED. POND ✓
017	015	013	016

CDFS OUTFALL #

**OPERATIONAL STATUS AT TIME OF INSPECTION**

Approximate water level:

All Dry

Sediment level (% total storage):

45%

Outflow (cfs):

0 cfs

FEATURES	PROBLEM		COMMENTS
	YES	NO	
<b>EROSIONAL</b>			
Rills & Gullies on Embankment		✓	
Inadequate Vegetation		✓	
Outlet Channel Erosion		✓	
Burrows		✓	
Other		✓	
<b>STRUCTURAL</b>			
Differential Setting		✓	
Cracks or slides		✓	
Seepage		✓	
Other		✓	
<b>APPURTENANT STRUCTURES</b>			
Defective Spillways		✓	
Dewatering Device Clogged		✓	
Faulty Gates, Baffles, Pump		✓	
Other		✓	
<b>ADDITIONAL COMMENTS:</b>			
<b>MAINTENANCE REQUIRED:</b> <u>None</u>			

NAME OF INSPECTOR: M. Kawcak



OPERATOR: EMPIRE CORPORATION

MINE: EMPIRE NOS. 5 & 6 MINES

DATE OF INSPECTION: 11/18/2019

POND INSPECTION

1	2	3	4
HR-P1A	HR-P1B		
SED. POND ✓	SED. POND ✓		

CDFS OUTFALL #

004

**OPERATIONAL STATUS AT TIME OF INSPECTION**

Approximate water level:

Sediment level (% total storage):

Outflow (cfs):

Dry  
50%  
0

FEATURES	PROBLEM		COMMENTS
	YES	NO	
<b>EROSIONAL</b>			
Rills & Gullies on Embankment		✓	
Inadequate Vegetation		✓	
Outlet Channel Erosion		✓	
Burrows		✓	
Other		✓	
<b>STRUCTURAL</b>			
Differential Setting		✓	
Cracks or slides		✓	
Seepage		✓	
Other		✓	
<b>APPURTENANT STRUCTURES</b>			
Defective Spillways		✓	
Dewatering Device Clogged		✓	
Faulty Gates, Baffles, Pump		✓	
Other		✓	
<b>ADDITIONAL COMMENTS:</b>			
<b>MAINTENANCE REQUIRED:</b> <u>None</u>			

NAME OF INSPECTOR: M. Kawcak



OPERATOR: EMPIRE CORPORATION

MINE: EMPIRE NOS. 5 & 6 MINES

DATE OF INSPECTION: 11/18/2019

POND INSPECTION

1	2	3	4
SH-P1	SH-P2		
SED. POND	SED. POND		

CDFS OUTFALL #

011

012

**OPERATIONAL STATUS AT TIME OF INSPECTION**

Approximate water level:

Sediment level (% total storage):

Outflow (cfs):

All Dry  
≤ 5%  
0

FEATURES	PROBLEM		COMMENTS
	YES	NO	
<b>EROSIONAL</b>			
Rills & Gullies on Embankment		✓	Minor Animal Burrows
Inadequate Vegetation		✓	
Outlet Channel Erosion		✓	
Burrows		✓	
Other		✓	
<b>STRUCTURAL</b>			
Differential Settling		✓	
Cracks or slides		✓	
Seepage		✓	
Other		✓	
<b>APPURTENANT STRUCTURES</b>			
Defective Spillways		✓	
Dewatering Device Clogged		✓	
Faulty Gates, Baffles, Pump		✓	
Other		✓	
<b>ADDITIONAL COMMENTS:</b>			
<b>MAINTENANCE REQUIRED:</b> <u>None</u>			

NAME OF INSPECTOR: M. Kawcak





OPERATOR: EMPIRE CORPORATION

MINE: EMPIRE NOS. 5 & 6 MINES

DATE OF INSPECTION: 11/18/2019

POND INSPECTION

	1	2	3	4
5A-P1				
SED. POND ✓				

CDFS OUTFALL #

009

**OPERATIONAL STATUS AT TIME OF INSPECTION**

Approximate water level:

~~100%~~ Dry

Sediment level (% total storage):

45%

Outflow (cfs):

0

FEATURES	PROBLEM		COMMENTS
	YES	NO	
<b>EROSIONAL</b>			
Rills & Gullies on Embankment		✓	
Inadequate Vegetation		✓	
Outlet Channel Erosion		✓	
Burrows		✓	
Other		✓	
<b>STRUCTURAL</b>			
Differential Settling		✓	
Cracks or slides		✓	
Seepage		✓	
Other		✓	
<b>APPURTENANT STRUCTURES</b>			
Defective Spillways		✓	
Dewatering Device Clogged		✓	
Faulty Gates, Baffles, Pump		✓	
Other			
<b>ADDITIONAL COMMENTS:</b> Portal above has been filled in.			
<b>MAINTENANCE REQUIRED:</b>			

NAME OF INSPECTOR: M. Kawale



OPERATOR: EMPIRE CORPORATION

MINE: EMPIRE NOS. 5 & 6 MINES

DATE OF INSPECTION: 11/18/2019

POND INSPECTION

	1	2	3	4
WASTEWATER				
TREATMENT				

CDFS OUTFALL #

023

**OPERATIONAL STATUS AT TIME OF INSPECTION**

Approximate water level:

Sediment level (% total storage):

Outflow (cfs):

Reclaimed Spring 2019

FEATURES	PROBLEM		COMMENTS
	YES	NO	
<b>EROSIONAL</b> Rills & Gullies on Embankment Inadequate Vegetation Outlet Channel Erosion Burrows Other		NA	
<b>STRUCTURAL</b> Differential Setting Cracks or slides Seepage Other			
<b>APPURTENANT STRUCTURES</b> Defective Spillways Dewatering Device Clogged Faulty Gates, Baffles, Pump Other			
<b>ADDITIONAL COMMENTS:</b>			
<b>MAINTENANCE REQUIRED:</b>			

NAME OF INSPECTOR: M. Kowale



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