

OPERATOR: EMPIRE CORPORATION

MINE: EMPIRE NOS. 5 & 6 MINES

DATE OF INSPECTION: 11/24/21

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):

Both Dry
< 5%
0

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

NAME OF INSPECTOR: M. Kawcak

OPERATOR: EMPIRE CORPORATION

MINE: EMPIRE NOS. 5 & 6 MINES

DATE OF INSPECTION: 11/24/21

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):

Both dry
25%
0

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

NAME OF INSPECTOR: M. Kawale

OPERATOR: EMPIRE CORPORATION

MINE: EMPIRE NOS. 5 & 6 MINES

DATE OF INSPECTION: 11/24/21

POND INSPECTION

| 1 | 2 | 3 | 4 |
|----------------|----------------|----------------|----------------|
| 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 INSPECTION

Approximate water level:

Sediment level (% total storage):

Outflow (cfs):

All Dry
45%
0

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

NAME OF INSPECTOR: M. Kawacki

OPERATOR: EMPIRE CORPORATION

MINE: EMPIRE NOS. 5 & 6 MINES

DATE OF INSPECTION: 11/24/21

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:

Sediment level (% total storage):

Outflow (cfs):

All Dry
< 5%
0 cfs

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

NAME OF INSPECTOR: M. Kawcak

OPERATOR: EMPIRE CORPORATION

MINE: EMPIRE NOS. 5 & 6 MINES

DATE OF INSPECTION: 11/24/21

POND INSPECTION

| | 1 | 2 | 3 | 4 |
|---------------|---|---|---|---|
| Spoil Springs | | | | |
| | ✓ | | | |

CDFS OUTFALL #

022 Site 1SP

OPERATIONAL STATUS AT TIME OF INSPECTION

Approximate water level:

small pool

Sediment level (% total storage):

<5%

Outflow (cfs):

0 cfs

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

NAME OF INSPECTOR: M. Kaweak

OPERATOR: EMPIRE CORPORATION

MINE: EMPIRE NOS. 5 & 6 MINES

DATE OF INSPECTION: 11/24/21

POND INSPECTION

| 1 | 2 | 3 | 4 |
|-----------|-----------|-----------|---|
| 5-P1 ✓ | 5-P2 ✓ | 5-P3 ✓ | |
| SED. POND | SED. TRAP | SED. TRAP | |

CDFS OUTFALL #

007

OPERATIONAL STATUS AT TIME OF INSPECTION

Approximate water level:

All Dry

Sediment level (% total storage):

< 5%

Outflow (cfs):

0

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

NAME OF INSPECTOR: Muonda Kawuka

OPERATOR: EMPIRE CORPORATION

MINE: EMPIRE NOS. 5 & 6 MINES

DATE OF INSPECTION: 11/24/21

POND INSPECTION

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

CDFS OUTFALL #

003

003

003

OPERATIONAL STATUS AT TIME OF INSPECTION

Approximate water level:

Sediment level (% total storage):

Outflow (cfs):

Reclaimed 2018

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

NAME OF INSPECTOR: M. Kawcah

OPERATOR: EMPIRE CORPORATION

MINE: EMPIRE NOS. 5 & 6 MINES

DATE OF INSPECTION: 11/24/21

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
< 5%
0

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

NAME OF INSPECTOR: M. Kawcak

OPERATOR: EMPIRE CORPORATION

MINE: EMPIRE NOS. 5 & 6 MINES

DATE OF INSPECTION: 11/24/21

POND INSPECTION

| | 1 | 2 | 3 | 4 |
|-----------|---|---|---|---|
| 5A-P1 | | | | |
| SED. POND | ✓ | | | |

CDFS OUTFALL #

009

OPERATIONAL STATUS AT TIME OF INSPECTION

Approximate water level:

Dry

Sediment level (% total storage):

<5%

Outflow (cfs):

0

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

NAME OF INSPECTOR: M. Kawcak

OPERATOR: EMPIRE CORPORATION

MINE: EMPIRE NOS. 5 & 6 MINES

DATE OF INSPECTION: 11/24/21

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 2019

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

NAME OF INSPECTOR: M. Kowcah