

Town of Cooks Valley – Subject Outline – Chippewa Sand Company

1. Mine Status

a. Permitted May 5, 2011

i. Permit Amendments
None

b. Mining Activities Conducted on Site
No mining activities conducted in 2016

c. Permit Conditions

i. Groundwater

1. Monitoring Wells

Groundwater elevations were recorded at all wells four times during 2016, meeting their quarterly testing permit requirement.

2. Groundwater Elevations Map

Yes, see map in 3.0, Annual Report

3. Groundwater Quality Testing

No testing required in 2016

4. Settling Pond Construction

Existing settling ponds have an EPDM liner. They were not used in 2016.

ii. Surface Water

1. Storm Water Ponds

Formal inspection of ponds conducted weekly by CS staff and in March and August by Chippewa County. No items of concern noted.

2. Changes Require Engineering

None

3. Process Water Ponds

Operator uses EPDM lined settling ponds as process water ponds.

4. Erosion Control

Minor erosion on berms along south east edge of mine. New silt fence installed along entire south and east mine boundary.

iii. Waste Materials

1. Waste Generated on Site

No waste was generated on site because no mining activities occurred.

2. Waste Generated off Site

No fines were brought back to the mine in 2016.

iv. Annual Reporting of what was done last year and what will be done next year

Report was filed on February 9, 2017 for the 2016 mining year. 2017 mining is anticipated to expand into Phases 3 and 4. The road near the wet plant will be built up to prevent runoff from leaving the mine site to the west.

Christien Huppert
Project Engineer

Chuppert@CG.chippewa.wi.us

715-720-3644

- v. All soils stay on site for use in reclamation
- vi. Post Mining Land Use
Seeding as described in the seeding plan (grass and clover mix). Trees will be planted on 3:1 slopes as directed by the landowner.
- vii. Financial Assurance
Current financial assurance of \$3,332,000.
- viii. Violations
No discharges were documented in 2016.

2. Map Review

- a. Groundwater Info Map
 - i. Mine Boundary
 - ii. Well Locations
 - iii. Groundwater Elevations
 - iv. Aerial Photo

- b. Bedrock Info Map
 - i. Mine Boundary
 - ii. Bedrock Formations
 - iii. Surface Water Resources
 - iv. Watershed Divides

Town of Cooks Valley – Subject Outline – Preferred Sands

1. Mine Status

a. Permitted June 7, 2011

i. Permit Amendments

Amendment 1 – October 3, 2011 (alternative settling pond liner)

b. Mining Activities Conducted on Site

No mining activities conducted in 2016

c. Permit Conditions

i. Groundwater

1. Monitoring Wells

Groundwater elevations were recorded continuously during 2016, meeting their quarterly testing permit requirement.

2. Groundwater Elevations Map

Not provided – does not appear to have been provided in the past. Will follow up with staff.

3. Groundwater Quality Testing

Testing for acrylamide required – not detected in 2016

4. Settling Pond Construction

Settling ponds operating as designed.

ii. Surface Water

1. Storm Water Ponds

Formal inspection of ponds conducted weekly by CS staff and in March and August by Chippewa County. No items of concern noted.

2. Changes Require Engineering

None

3. Process Water Ponds

No issues noted

4. Erosion Control

No issues noted

iii. Waste Materials

1. Waste Generated on Site

No waste was generated on site because no mining activities occurred.

2. Waste Generated off Site

No fines were brought back to the mine in 2016.

iv. Annual Reporting of what was done last year and what will be done next year

Report was filed on January 30, 2017 for the 2016 mining year. No mining planned at the PS Mine in 2017.

v. All soils stay on site for use in reclamation

vi. Post Mining Land Use

Agricultural (pasture) and wildlife habitat (3:1)

- vii. Financial Assurance
Current financial assurance of \$2,980,000.
- viii. Violations
No discharges were documented in 2016.

2. Map Review

- a. Groundwater Info Map
 - i. Mine Boundary
 - ii. Well Locations
 - iii. Groundwater Elevations
 - iv. Aerial Photo

- b. Bedrock Info Map
 - i. Mine Boundary
 - ii. Bedrock Formations
 - iii. Surface Water Resources
 - iv. Watershed Divides

Town of Cooks Valley – Subject Outline – EOG DS

1. Mine Status

a. Permitted October 14, 2011

i. Permit Amendments

Johnson Site Amendment - June 24, 2015

b. Mining Activities Conducted on Site

No mining activities conducted in 2016

c. Permit Conditions

i. Groundwater

1. Monitoring Wells

Groundwater elevations were recorded at all wells four times during 2016, meeting their quarterly testing permit requirement.

2. Groundwater Elevations Map

Yes, see map in Attachment 2, Annual Report

3. Groundwater Quality Testing

Testing for acrylamide required – not detected in 2016

4. Settling Pond Construction

Settling ponds operating as designed.

ii. Surface Water

1. Storm Water Ponds

Formal inspection of ponds conducted weekly by CS staff and in March by Chippewa County. No items of concern noted.

2. Changes Require Engineering

None

3. Process Water Ponds

None

4. Erosion Control

No issues noted

iii. Waste Materials

1. Waste Generated on Site

No waste was generated on site because no mining activities occurred.

2. Waste Generated off Site

No fines were brought back to the mine in 2016.

iv. Annual Reporting of what was done last year and what will be done next year

Report was filed on February 1, 2017 for the 2016 mining year. Unsure how much activity will occur at DS Mine in 2017.

v. All soils stay on site for use in reclamation

vi. Post Mining Land Use

Conservation Land/Wildlife Habitat planted to native dry mesic prairie.

vii. Financial Assurance

Current financial assurance of \$4,657,446.

- viii. Violations
No discharges were documented in 2016.

2. Map Review

- a. Groundwater Info Map
 - i. Mine Boundary
 - ii. Well Locations
 - iii. Groundwater Elevations
 - iv. Aerial Photo

- b. Bedrock Info Map
 - i. Mine Boundary
 - ii. Bedrock Formations
 - iii. Surface Water Resources
 - iv. Watershed Divides