FORMER ZEPHYR OIL REFINERY
GREAT LAKES LEGACY ACT
WETLAND SEDIMENT CLEANUP AND HABITAT RESTORATION
MUSKEGON, MICHIGAN

Funded by the U.S. Environmental Protection Agency Great Lakes National Program Office and the Michigan Department of Environmental Quality

www.epa.gov/muskegon-lake-aoc
www.greatlakesmud.org

Contractor: Severson Environmental Services, Inc.
Engineer: EA Engineering, Science and Technology, (MI) PLC and its Affiliate EA Science and Technology
Subcontractors: Foth, ECT
Contractor Project Team

- Infrastructure
  - Haul Roads
  - Process Pads
  - Cofferdam
- Dewatering / Water Treatment
- Shoring
- Excavation
- Stabilization
- Transport & Disposal
- Backfill

- Work Plans
- Permitting
- Air Monitoring
- Soil / Sediment Sampling

- Restoration
- Plantings
- Maintenance
2017 Work Completed
(July – November)

- Preconstruction Submittals
- Local Permits
- Survey
- Base Line Air Monitoring
- Haul Roads
- Process Pads
- Cofferdams
Cofferdam Install

Steel Sheet Pile Segment  Earthen Berm Segment
2018 Work Schedule
(March – October)

• Install Temporary WWTS
• Dewater & Water Treatment
• Install Ditch Shoring
• Excavate Sediments
• Stabilize Sediment
• Load & Transport Sediment
• Backfill
• Restoration
Water Treatment
Steel Sheeting System
Sediment Excavation
Solidification / Stabilization
Load and Transport Sediment
Backfill
Restoration