



Command and General Staff

September 21, 2012

Submerged Oil

Site-Wide Monitoring



Late Summer Reassessment at Targeted Monitoring Locations (Poling)

- Additional Poling Targets at North and South Coves of Morrow Lake complete.
- Live GIS review of additional poling at North and South Coves of Morrow Lake

Monitoring and Sampling Activities

- Morrow Lake and Morrow Lake Delta Monitoring (poling) rounds completed last week
 - GIS Review of recently completed Morrow Lake and Delta monitoring
- E-4 Containment system poling and bathymetry has commenced
- Completed additional round of Walling Tube Sampling this week

Sediment Trap

Phase II Sediment Trap Status



Baseline Bathymetric Survey

- Ceresco, MP 10.40 RDB, MP 10.5 L2, MP 26.0 RDB, 30.80, MP 33.0 A, MP 33.0 B and Delta A, Delta Z, and MP 37.75 complete
- MP 11.79 LDB ongoing, nearing completion

Baseline Poling Assessments

- All Baseline Poling at Phase II Sediment Traps complete
- Additional poling conducted at Phase I trap added transects



Sediment Trap

Phase II Sediment Trap Status



Completed Enhanced Structure Installations

- Coir Log Structure at MP 11.79
- MP 26.0 RDB
- MP 33.0 A

CSD Installations

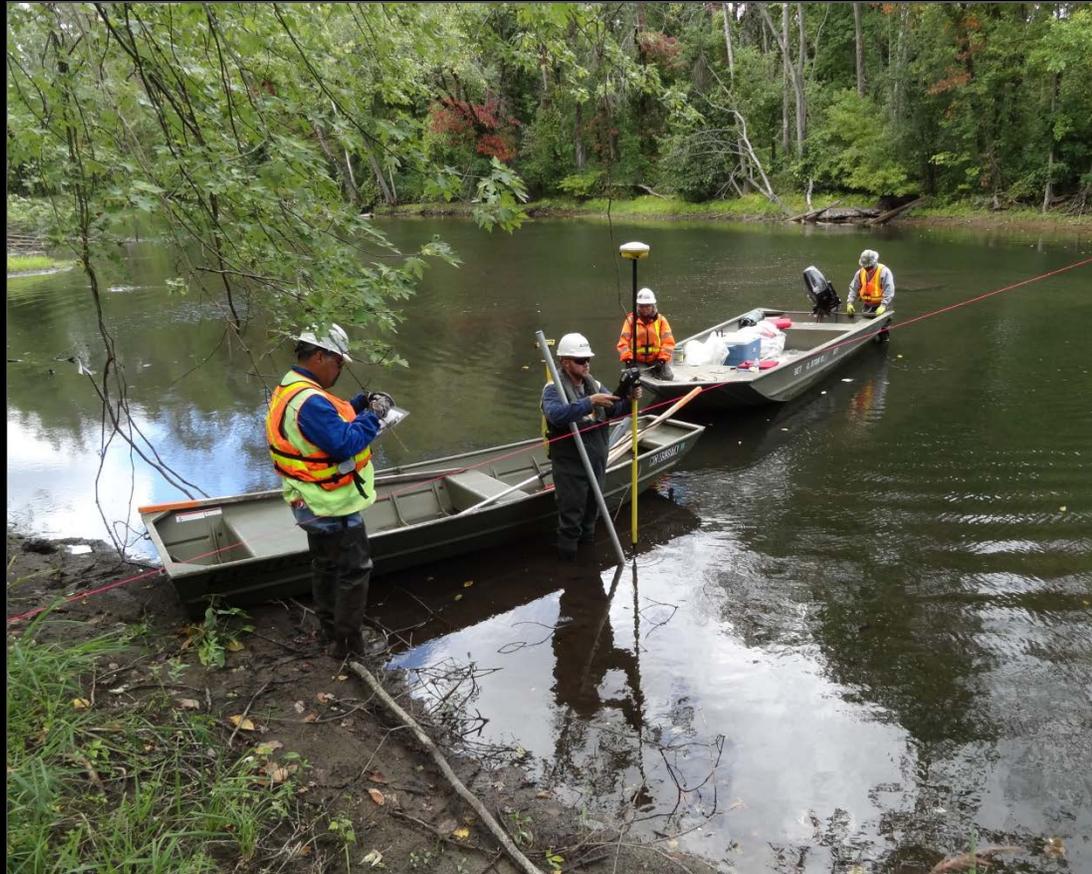
- Ceresco (partial), MP 10.40 RDB, MP 10.5 L2, MP 11.79 LDB, MP 26.0, MP 30.8 LDB, MP 33.0 A, MP 33.0 B, Delta A, Delta Z, MP 37.75 Islands

GIS Review of baseline sediment trap poling results (Including Ceresco with step-outs)

Sediment Trap

Phase I Sediment Trap Status

- Additional bathymetric transects added to Phase I Traps
- Monthly poling and sampling of CSDs commenced this week at Phase I Traps
- GIS Review of monthly Phase I sediment trap poling results



Submerged Oil Science Update



Oil Quantification Coring Program Status

- Update on status of pilot study schedule

Emerging Oil Management



Recurring Sheen and Sheen Responses - September 12, 2012 – September 20, 2012

- Ceresco (8) – including Control Point upstream to MP 5.0
- Mill Ponds (1)
- MP 21.5 (6)
- MP 23.15 RDB (4)
- MP 26.0 RDB (4)
- MP 26.3 RDB (4)
- MP 28.2 RDB (5)
- MP 37.9 (6) – south and north cove of Morrow Lake Fan
- MP 38.75 (5) – Morrow Lake near Rowe Island

Recurring Sheen at Bank Locations – September 12, 2012 – September 20, 2012

- MP 33.10 RDB – sheen observed at base of tree on RDB – Non Enbridge related

Emerging Oil Management

Ceresco - MP5.75 Center Channel
9.13.2012
Boat Agitated



Emerging Oil Management

Ceresco - MP5.63 LDB

9.19.2012

Naturally Occurring



Emerging Oil Management

Mill Ponds - MP14.98 RDB Main Channel

9.17.2012 Boat Agitated



Emerging Oil Management

Mill Ponds - MP15.5 LDB Main Channel

9.17.2012 Boat Agitated



Emerging Oil Management

Morrow Lake Delta - Gate C

9.17.2012

Naturally Occurring



2012/09/17 09:58

Emerging Oil Management

Morrow Lake Delta - Gate C
9.17.2012 Naturally Occurring



2012/09/17 09:58

Kalamazoo River

RI/RA Status



Source Area Removal Update

- Removal actions commenced September 18, 2012
- Update on progress and conditions (MDEQ)

Kalamazoo River RI

- Discussing end points
- Reviewing need for additional work on unimpacted parcels



Over-flight 9.20.2012