

US EPA ARCHIVE DOCUMENT

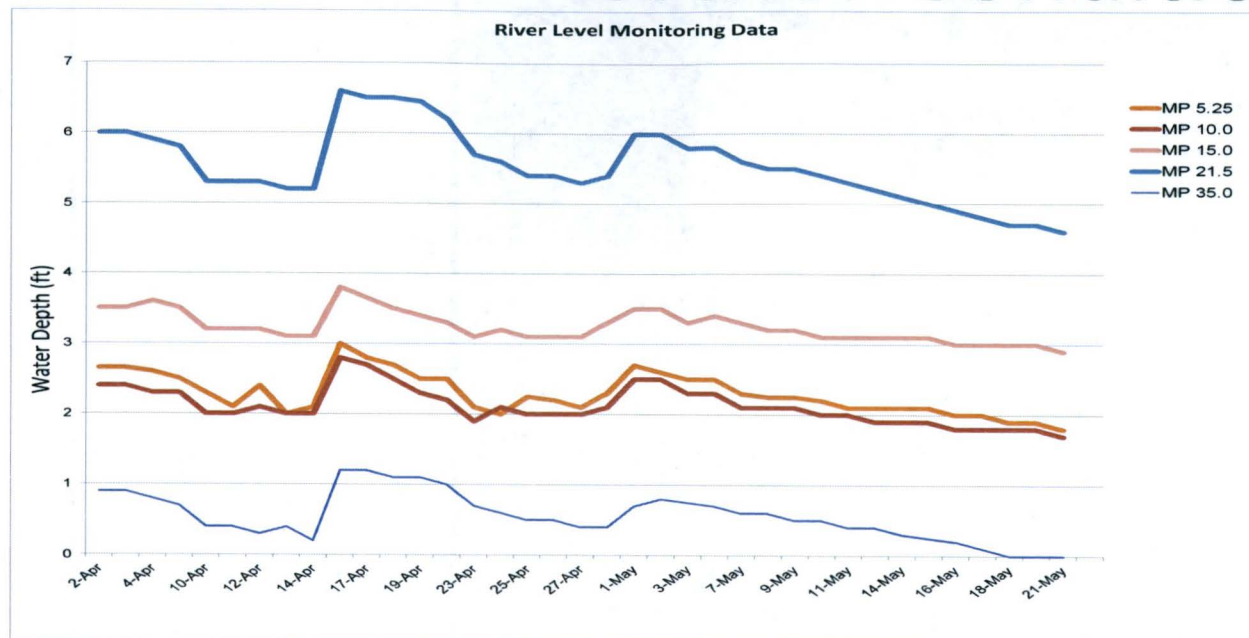
# Meeting Ground Rules

- Be courteous and silence/put away your electronic devices.
- Adhere to meeting agenda
- One conversation at a time
- Hold all questions until the speaker has finished with the presentation

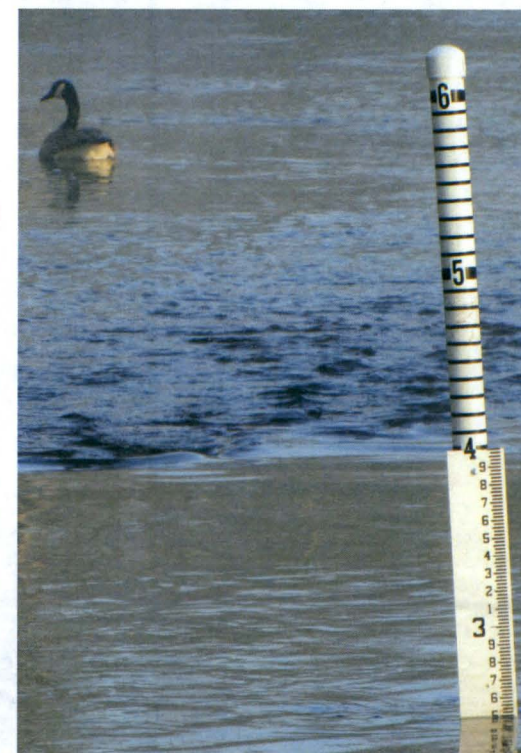
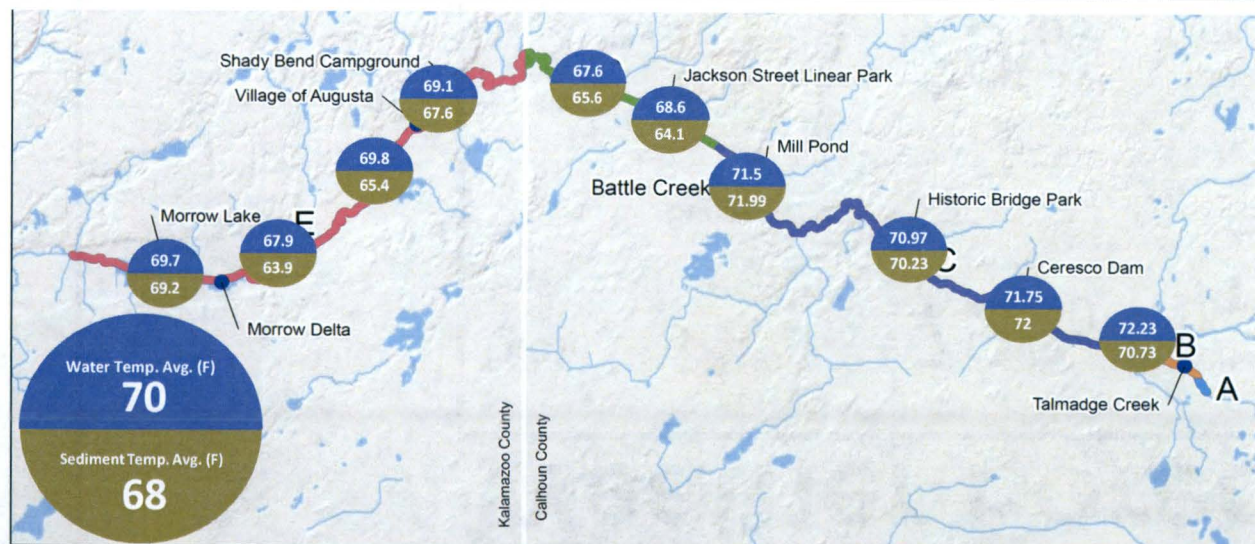


# Situation Report May 22, 2012

# Water Conditions



| DISCHARGE RATES (cfs) |      |      |
|-----------------------|------|------|
|                       | 5/20 | 5/19 |
| Marshall, MI          | 323  | 348  |
| Historical Median     | 345  | 348  |
| Battle Creek, MI      | 524  | 550  |
| Historical Median     | 720  | 705  |





# Weather Forecast

|                      |                                                                                     |                |                        |
|----------------------|-------------------------------------------------------------------------------------|----------------|------------------------|
| <b>Tue</b><br>May 22 |    | <b>72° 50°</b> | CHANCE OF RAIN:<br>0%  |
|                      | Sunny                                                                               |                |                        |
| <b>Wed</b><br>May 23 |    | <b>79° 59°</b> | CHANCE OF RAIN:<br>0%  |
|                      | Sunny                                                                               |                |                        |
| <b>Thu</b><br>May 24 |   | <b>83° 64°</b> | CHANCE OF RAIN:<br>10% |
|                      | Partly Cloudy                                                                       |                |                        |
| <b>Fri</b><br>May 25 |  | <b>85° 60°</b> | CHANCE OF RAIN:<br>10% |
|                      | Partly Cloudy                                                                       |                |                        |

# Science Group Status

|                 |                  |           |
|-----------------|------------------|-----------|
| Data Collection | Data Compilation | Submittal |
|-----------------|------------------|-----------|

## Submerged Oil Science Group

### Reassessment

|                                  |   |  |           |
|----------------------------------|---|--|-----------|
| Spring 2012 Sub Oil Reassessment | E |  | Began 5/7 |
|----------------------------------|---|--|-----------|

### Submerged Oil Quantification

|                            |   |  |  |
|----------------------------|---|--|--|
| Fall 2011                  | E |  |  |
| Spring 2012 (pre-recovery) | E |  |  |
| Fall 2012 (post-recovery)  | E |  |  |

## Containment Science Group

### Evaluate placement of containment

|                                |      |      |      |                   |
|--------------------------------|------|------|------|-------------------|
| Hec-Ras Modeling               | 12/5 | 1/9  | 1/26 |                   |
| Hydraulic Calculations         | 1/10 | 1/23 | 1/26 |                   |
| 2D Hydrodynamic Model          |      | 2/13 | E    | Further scenarios |
| Monitoring and Management Plan | 1/24 | 1/25 | 2/27 |                   |

### Implementation of passive sediment collection devices

|                          |  |  |   |  |
|--------------------------|--|--|---|--|
| Location selection       |  |  |   |  |
| Design review            |  |  |   |  |
| Installation             |  |  | E |  |
| Post-installation review |  |  |   |  |
| Design adjustments       |  |  |   |  |

• denotes status updates since the last report

E Enbridge

Complete or N/A

() Denotes Due Date



# Remediation Progress

| Location | SCIENCE      |             |               |                  |                       | COMPLIANCE            |                    |                    | RECOVERY      | MONITORING | Comments |
|----------|--------------|-------------|---------------|------------------|-----------------------|-----------------------|--------------------|--------------------|---------------|------------|----------|
|          | RI Work Plan | Plan Review | Investigation | Data Compilation | Presentation to OSCAR | Remediation Work Plan | Remed. Plan Review | Permit Application | Permit Review | Execution  |          |

|                   |  |  |  |  |  |  |  |      |      |      |  |  |
|-------------------|--|--|--|--|--|--|--|------|------|------|--|--|
| Submerged Oil     |  |  |  |  |  |  |  |      |      |      |  |  |
| Walling Structure |  |  |  |  |  |  |  | 3/16 | 3/27 | 4/14 |  |  |
| Suboil Toolbox    |  |  |  |  |  |  |  | 4/20 | A    |      |  |  |

|                    |  |  |  |  |  |      |   |      |      |     |  |                 |
|--------------------|--|--|--|--|--|------|---|------|------|-----|--|-----------------|
| Containment        |  |  |  |  |  |      |   |      |      |     |  |                 |
| MP 3.25 R1         |  |  |  |  |  | 4/25 | A | 5/11 | A    |     |  | SSD Only        |
| Ceresco Dam        |  |  |  |  |  | 4/25 | A | 5/11 | A    |     |  | SSD Only        |
| MP 10.40 N         |  |  |  |  |  | 4/25 | A | 5/11 | A    |     |  | SSD Only        |
| MP 10.50 L2        |  |  |  |  |  | 4/25 | A | 5/11 | A    |     |  | *               |
| MP 10.75 LDB       |  |  |  |  |  | 4/25 | A | 4/3  | 4/26 | 5/8 |  | Sed Traps + SSD |
| 14.75 RDB          |  |  |  |  |  | 4/25 | A | 4/3  | 4/26 | 5/8 |  | Sed Traps + SSD |
| 19.25 LDB          |  |  |  |  |  | 4/25 | A | 4/3  | 4/26 | 5/8 |  | Sed Traps + SSD |
| 21.50 RDB          |  |  |  |  |  | 4/25 | A | 4/3  | 4/26 | 5/8 |  | SSD Only        |
| MP 26.00 RDB       |  |  |  |  |  | 4/25 | A | 5/11 | A    |     |  |                 |
| 28.25 RDB          |  |  |  |  |  | 4/25 | A | 4/3  | 4/26 | 5/8 |  | SSD Only        |
| MP 33.00 A         |  |  |  |  |  | 4/25 | A | 5/11 | A    |     |  | *               |
| MP 33.00 B         |  |  |  |  |  | 4/25 | A | 5/11 | A    |     |  | *               |
| Delta A            |  |  |  |  |  | 4/25 | A | 5/11 | A    |     |  | SSD Only        |
| Delta Z            |  |  |  |  |  | 4/25 | A | 5/11 | A    |     |  | SSD Only        |
| 36.1 NW            |  |  |  |  |  | 4/25 | A | 4/3  | 4/26 | 5/8 |  | Sed Traps + SSD |
| 37.75 Islands      |  |  |  |  |  | 4/25 | A | 5/11 | A    |     |  | SSD Only        |
| Control Points (3) |  |  |  |  |  |      |   | 3/21 | 3/23 | 4/5 |  |                 |
| OB 8.48 LDB        |  |  |  |  |  | 5/1  | A | 5/11 | A    |     |  | Structure       |
| SO 11.21           |  |  |  |  |  | E    |   |      | ↶    |     |  |                 |
| OB 11.79 LDB       |  |  |  |  |  | 5/1  | A | 5/11 | A    |     |  | Structure       |
| SO 26.25           |  |  |  |  |  | E    |   |      | ↶    |     |  |                 |

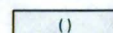
• denotes sites with status updates since the last report



Enbridge / In development



In Agency Review



Denotes Due Date



Complete or N/A



Revisit Previous Phase

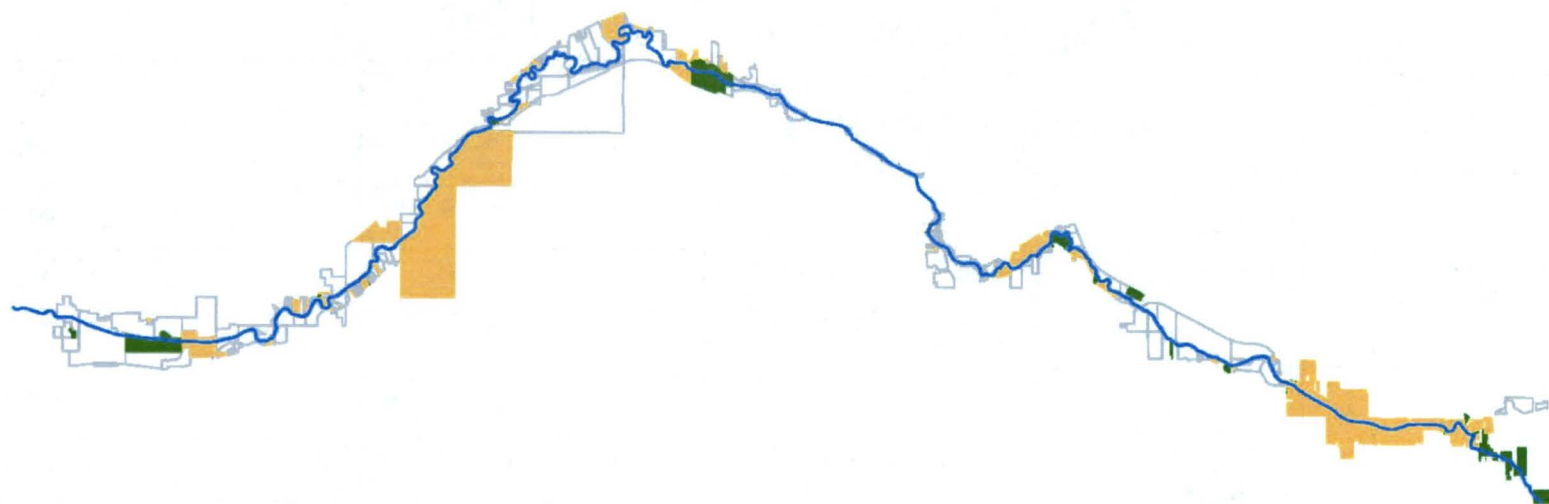
\*

Trap to remain in Permit. Running model with alternative structure placement

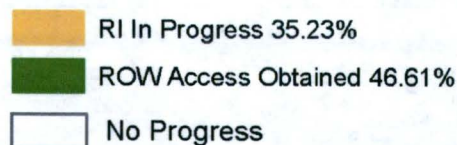
All\_Branch\_Progress\_05-21-2012.xls

# Remediation Progress

## Remedial Investigation



### Legend



Updated: May 21, 2012



# Daily Progress Tracking

## Personnel / Resources Deployed

|                        | 5/21/2012  | 5/20/2012 |
|------------------------|------------|-----------|
| Kalamazoo River System | 38         | 0         |
| Containment            | 10         | 0         |
| Submerged Oil          | 54         | 0         |
| Overbank               | 9          | 0         |
| River Opening          | 1          | 0         |
| Waste Management       | 16         | 0         |
| Security & Flaggers    | 5          | 5         |
| Operations Center      | 41         | 1         |
| Comm. Centers          | 4          | 0         |
| EPA                    | 2          | 0         |
| EPA Contractors        | 27         | 0         |
| Other Agencies         | 0          | 0         |
| DEQ                    | 6          | 0         |
| DEQ Contractors        | 9          | 0         |
| <b>TOTAL</b>           | <b>222</b> | <b>6</b>  |

|                     | 5/21/2012  | 5/20/2012  |
|---------------------|------------|------------|
| Vac & Tanker Trucks | 0<br>0     | 0<br>0     |
| Frac Tanks          | 0<br>0     | 0<br>0     |
| Boats**             | 30<br>0    | 0<br>0     |
| Yellow Iron***      | 7<br>0     | 0<br>0     |
| Roll-Off Boxes      | 4<br>0     | 4<br>0     |
| Boom Locations      | 14         | 14         |
| Boom in River (ft)  | 6,025<br>0 | 6,025<br>0 |

\*\*Boats - Air Boats, Jon Boats & Pontoon Boats

\*\*\* Yellow Iron - Articulating dump trucks, bobcats, bulldozers, excavators, front end loaders, skid steers, gac system, marookas, forklifts, marsh buggies, water trucks



# Facility Sites



- 612 CY in cells
- 0 gal water
- 4 Roll offs





FTC 5/21





FTC 5/21

This is an aerial photograph of a construction site. In the center, a building is under construction, showing its wooden frame. To the left of the building, there is a parking area with several vehicles, including a white pickup truck, a red pickup truck, and a yellow truck. A yellow excavator is also visible near the building. The site is surrounded by a dirt road and a grassy area. In the foreground, a paved road with a yellow line runs diagonally across the frame. The background features a green field with trees and a body of water in the distance.





2012/05/19 08:52

Perrin Dam 5/19





2012/05/18 15:06

Confluence 5/18





Confluence 5/21





Saylor's Landing 5/21





MP 4.5 LDB 5/21





C0.4 5/21





MP 5.75 RDB 5/21





05/21/2012 07:47

MP 5.75 5/21





MP 5.75 5/21









Ceresco – Final 2011





Ceresco – Spring 2012 Reassessment





2012/05/19 11:25

MP 6.75 5/19





MP 7.75 5/21





MP 7.9 RDB 5/21





2012/05/18 08:43

MP 10.00; C3.2 5/18





MP 10.75 5/21





05/21/2012 12:07

MP 10.75 5/21





05/21/2012 12:07

MP 10.75 5/21





05/21/2012 12:08

MP 10.75 5/21





05/21/2012 12:09

MP 10.75 5/21





05/21/2012 12:10

MP 10.75 5/21



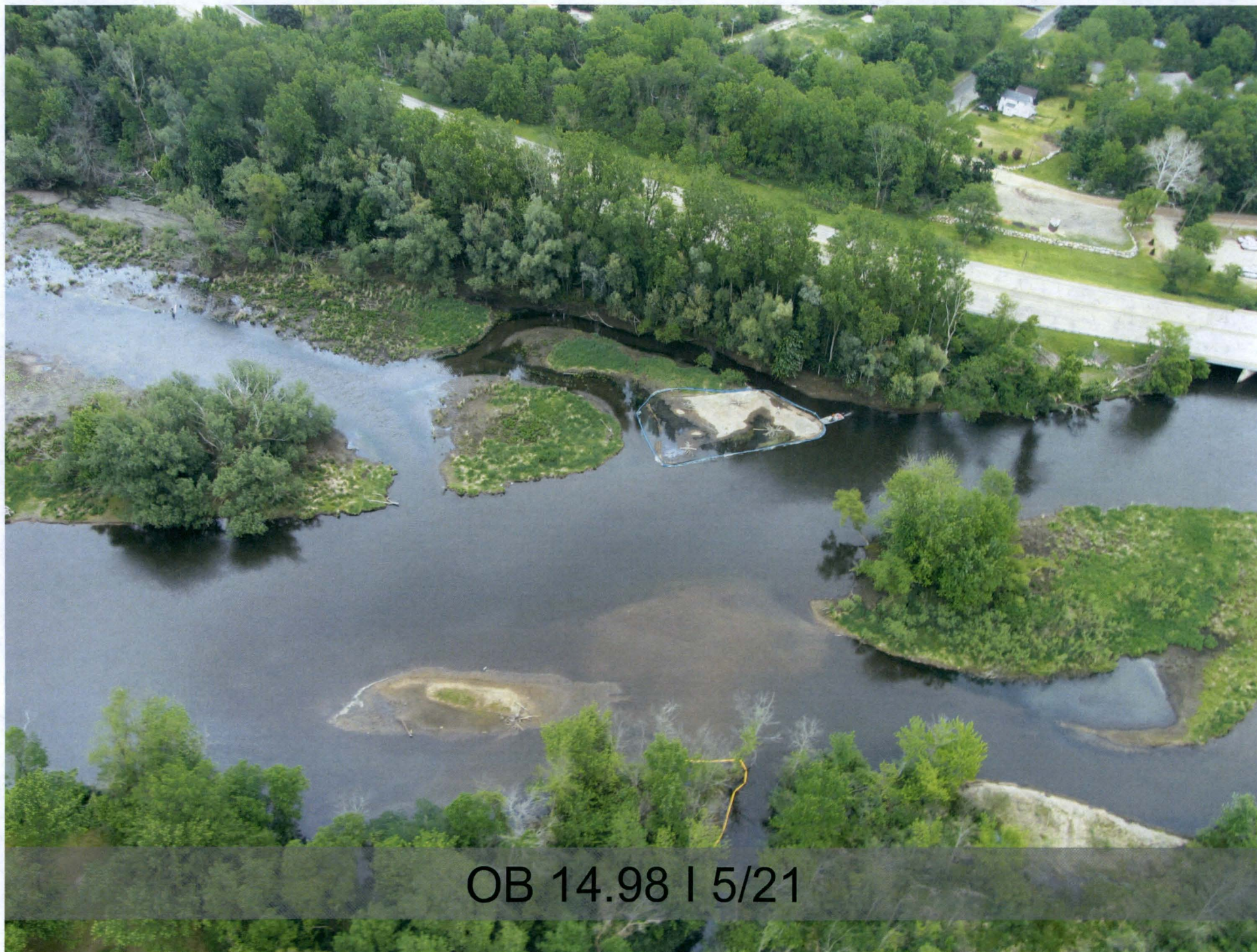


MP 11.00 5/21









OB 14.98 | 5/21









05/21/2012 12:48

OB 14.98 | 5/21





OB 14.98 | 5/21

05/21/2012 12:49





05/21/2012 12:49

OB 14.98 | 5/21





MP 15.65; Battle Creek Dam 5/21





MP 15.65; Battle Creek Dam 5/21





MP 17.0 LDB; Rock Tenn 5/18





MP 17.0 LDB; Rock Tenn 5/18





MP 17.0 LDB; Rock Tenn 5/21





2012/05/21 14:43

MP 17.0 LDB; Rock Tenn 5/21





2012/05/21 14:43

MP 17.0 LDB; Rock Tenn 5/21





2012/05/21 11:35

MP 17.0 LDB; Rock Tenn 5/21





MP 18.0 5/21





05/18/2012 10:19

MP 18.75 5/18





MP 19.25 5/21





MP 19.25 5/21





MP 26.25 5/21





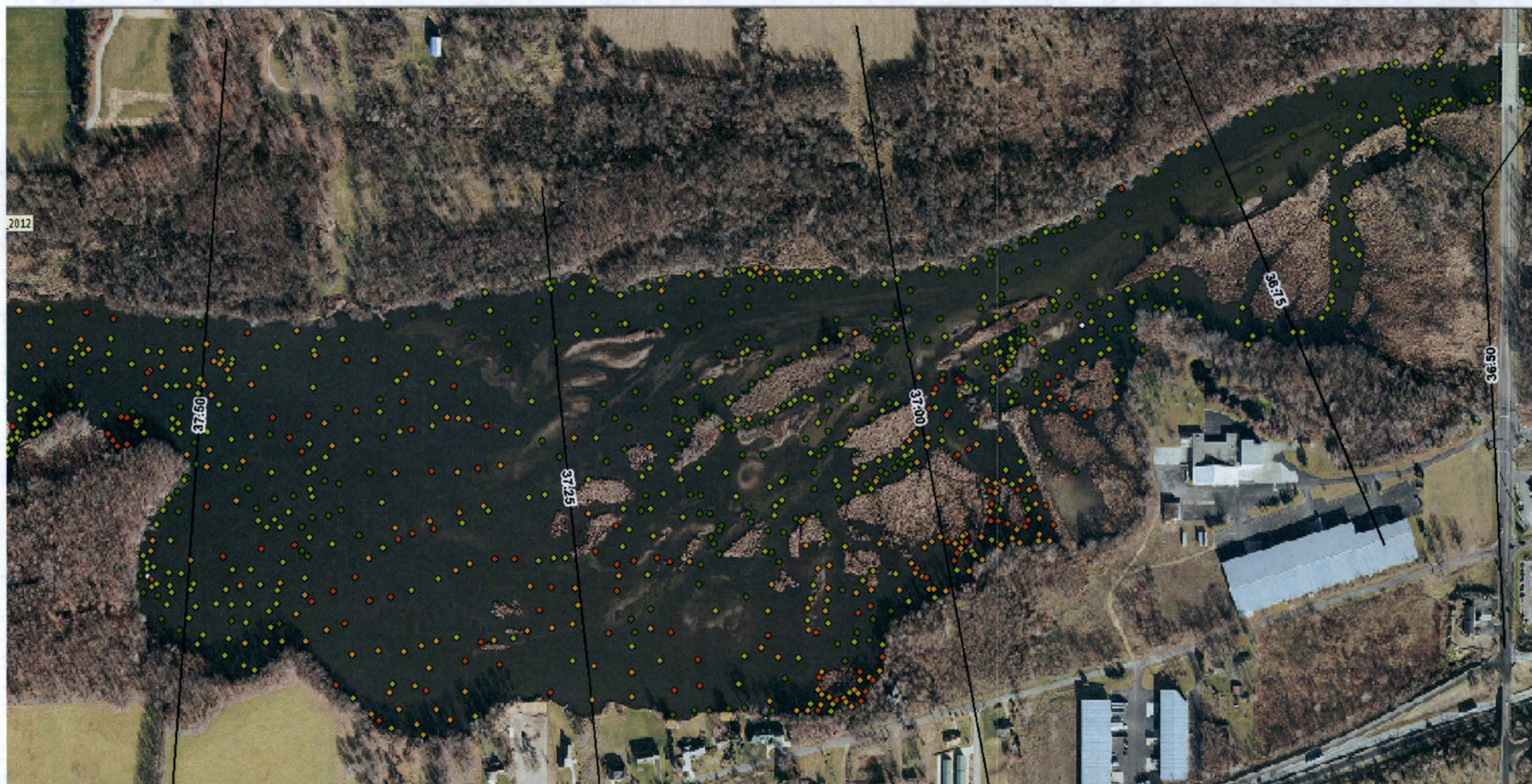
MP 36.1 5/21





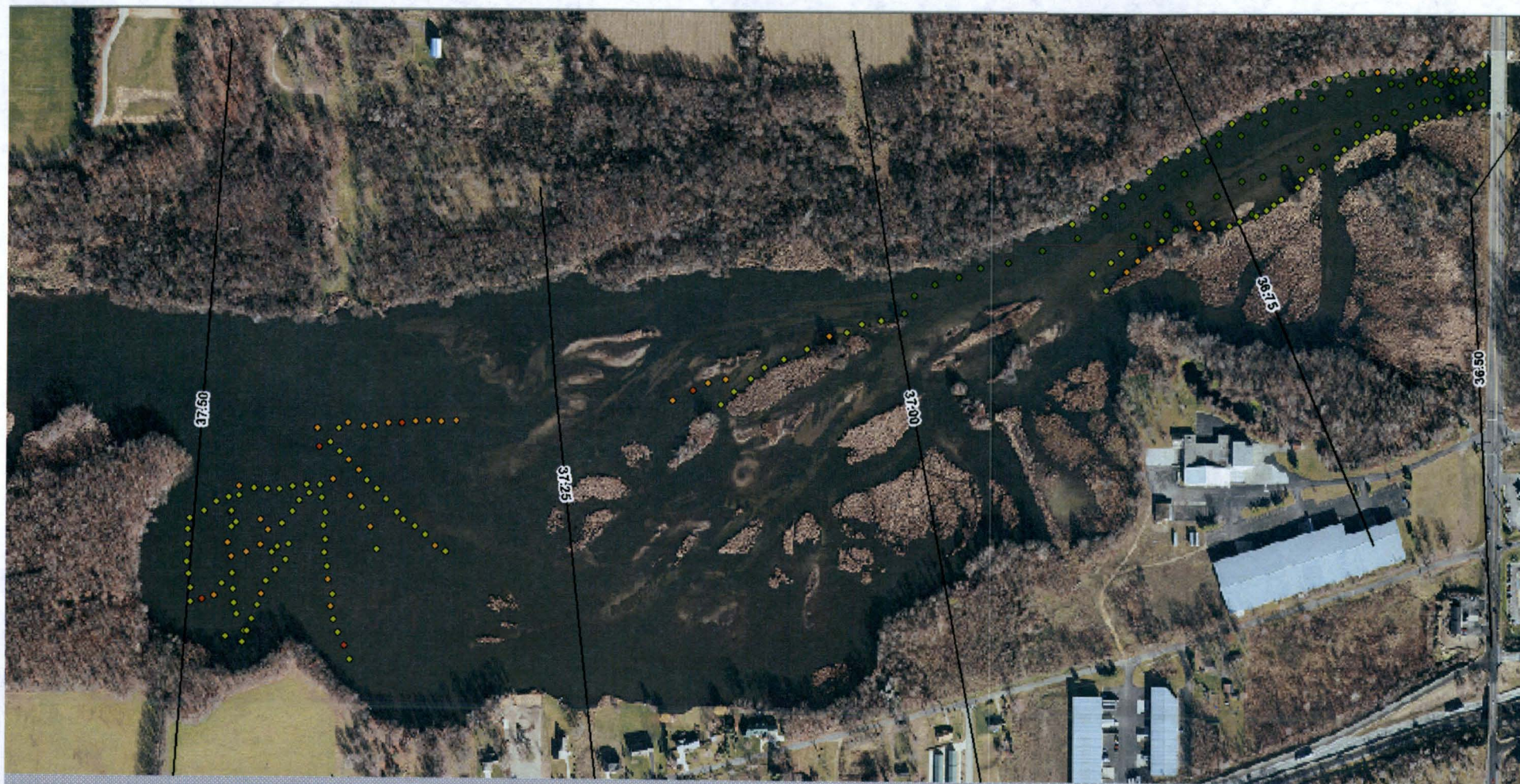
Morrow Lake Delta 5/21





Delta – Final 2011





Delta – Spring 2012 Reassessment





05/18/2012 07:05

E4 5/18





2012/05/21 08:11

E4 5/21





2012/05/21 08:31

E4 5/21





2012/05/21 08:32

E4 5/21





E4 5/21





2012/05/19 14:10

Morrow Lake 5/19





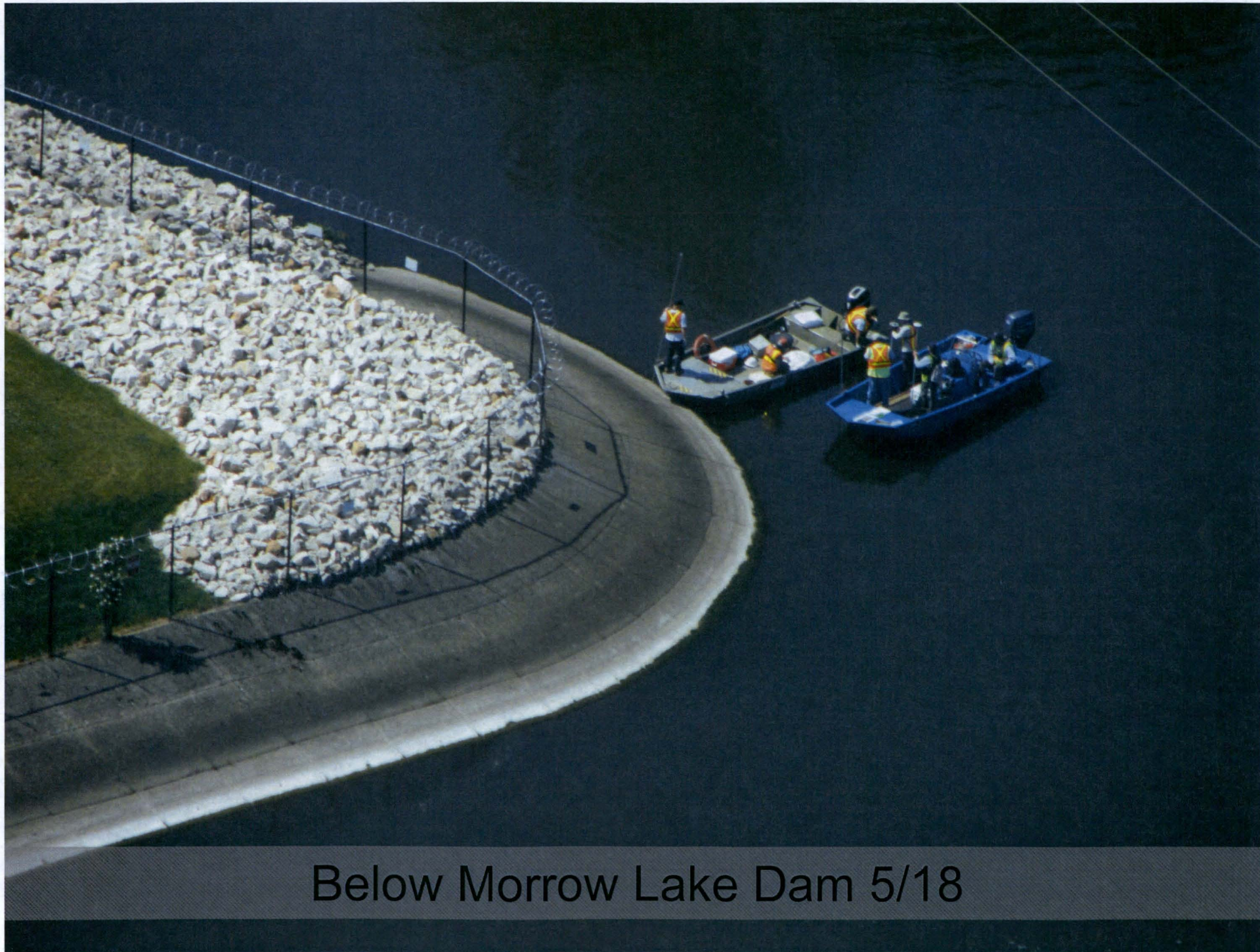
Morrow Lake – Final 2011





Morrow Lake – Spring 2012 Reassessment





Below Morrow Lake Dam 5/18

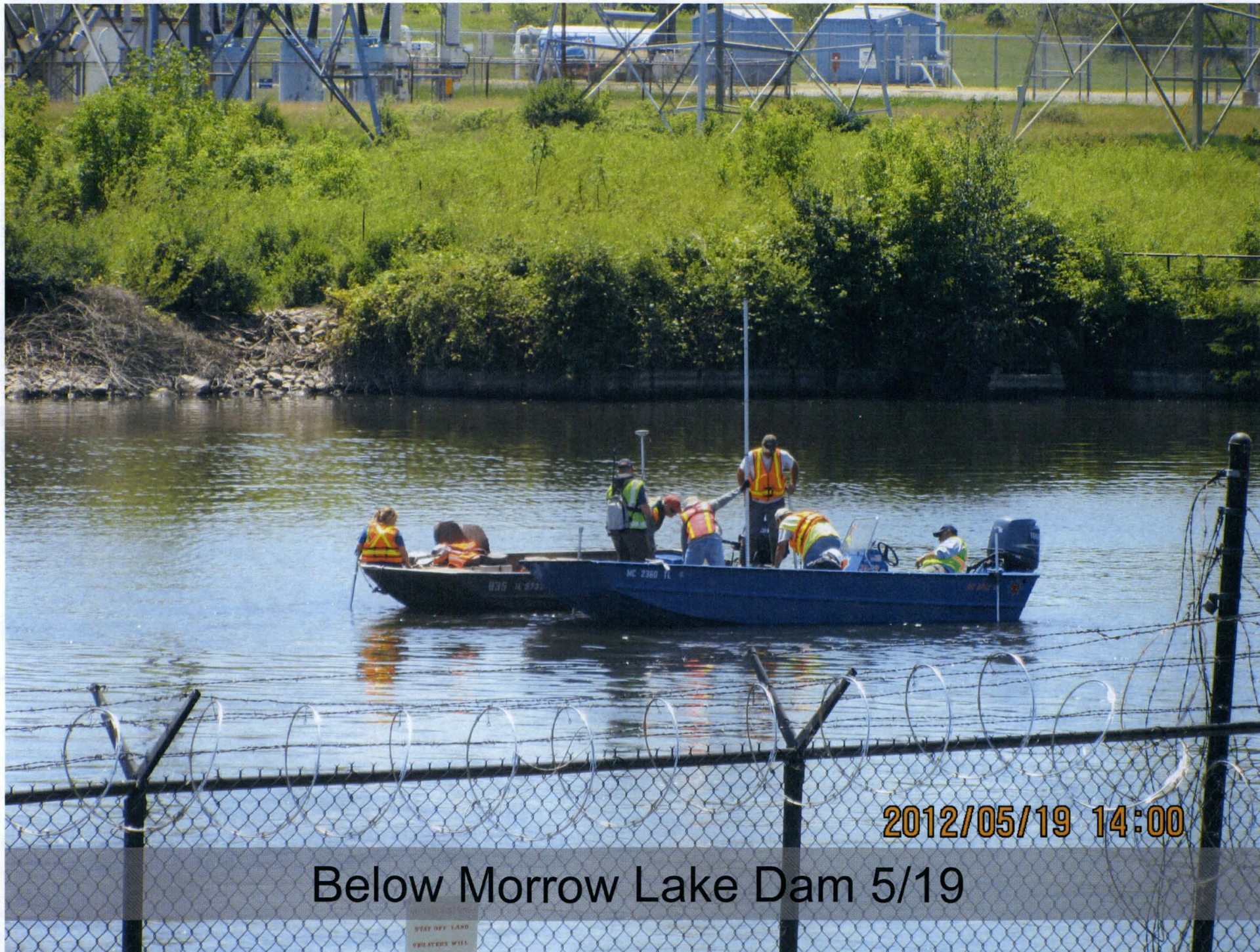




2012/05/18 15:37

Below Morrow Lake Dam 5/18





2012/05/19 14:00

Below Morrow Lake Dam 5/19





Below Morrow Lake Dam 5/21



# Command & General Staff Updates for UC

- Planning Section
- Logistics Section
- Operations Section
- Safety Officer
- Public Information Officer



# Closing Remarks

- Enbridge
- DEQ
- US EPA