

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

April 11, 2012

Science Group Status

Data Collection	Data Compilation	Submittal
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Submerged Oil Science Group

Reassessment

Spring 2012 Sub Oil Reassessment	E			Temperature dependent, Morrow Lake, Confluence to Saylor's
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Hydrodynamic Assessment & Modeling

Sensitivity Testing	•		4/6	
Run Modified Scenarios	•		4/6	
Summary Report	•	E	(4/13)	

Temperature Effects Study

Sediment sample location selection and collection			12/19	
Conduct temperature study			1/11	
Compile, evaluate, and present results	•		4/6	

Submerged Oil Quantification

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

• denotes status updates since the last report

E Enbridge

Complete or N/A

() Denotes Due Date

Science Group Status

Data Collection	Data Compilation	Submittal
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Overbank Science Group

Reassessment

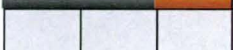
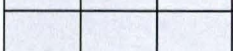
Spring 2012 Shoreline and Overbank Reassessment		
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Containment Science Group

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		Submerged Structures (6) Sent 4/3
Monitoring and Management Plan	1/24	1/25	2/27	

Implementation of passive sediment collection devices

Location selection		
Design review		
Installation		
Post-installation review		
Design adjustments		

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Enbridge



Complete or N/A



Denotes Due Date

Remediation Progress

Location

SCIENCE					COMPLIANCE				RECOVERY	MONITORING
RI Work Plan	Plan Review	Investigation	Data Compilation	Presentation to OSCAR	Remediation Work Plan	Remed. Plan Review	Permit Application	Permit Review	Execution	Completion Check

Comments

Overbank

OB 14.98 I					10/17	10/15	9/28	10/10	11/18	E	
OB 5.92 RDB					12/1	12/8	11/4	12/1	1/25	E	
OB 13.40 LDB					12/22	2/7	12/21	2/9	2/23	E	
OB 8.97 I				12/15	2/17	2/24	1/25	2/24	3/23	E	
OB 9.10 LDB				1/5	2/17	2/24	1/25	2/24	3/16	E	
OB 10.37 RDB				1/12	2/17	2/24	1/25	2/24	3/22	E	

Submerged Oil

Walling Structure						3/16	3/27	E		
Suboil Toolbox						E				

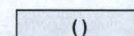
Containment

Submerged Structures I(6)		E	↶	4/3	A				
Submerged Structures II(12)		E	↶	E					
Control Points (3)				3/21	3/23	4/5			
OB 8.48 LDB		E		E					
SO 11.21		E		E					
OB 11.79 LDB		E		E					
SO 26.25		E		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



Upstream of Confluence 4/10



Ceresco Dam 4/10

Daily Progress Tracking

Personnel / Resources Deployed

	4/10/2012	4/9/2012
Kalamazoo River Remediation	23	0
Containment	13	0
Submerged Oil	7	0
Overbank	11	0
River Reopening	1	0
Waste Management	15	0
Security & Flaggers	5	5
Operations Center	52	2
Comm. Centers	3	6
EPA	4	1
EPA Contractors	19	3
Other Agencies	0	0
DEQ	6	4
DEQ Contractors	5	0
TOTAL	164	21

	4/10/2012	4/9/2012
Vac & Tanker Trucks	0 0	0 0
Frac Tanks	1 0	1 0
Boats**	9 1	0 0
Yellow Iron***	4 0	0 0
Roll-Off Boxes	9 0	9 0
Boom Locations	13	13
Boom in River (ft)	4,950 0	4,950 0

Facility Sites

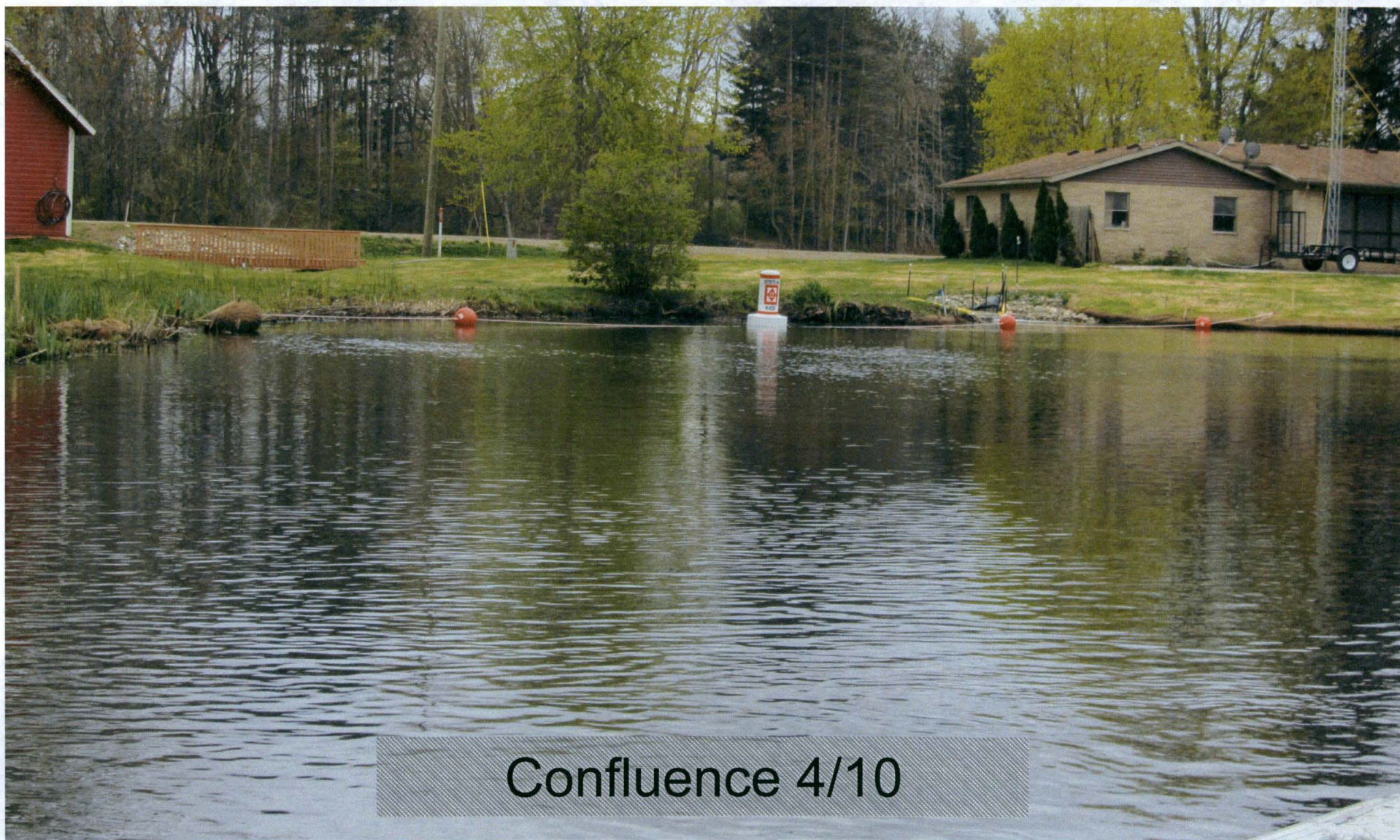


- 0 CY in cells
- 0 gal water in Fracs
- 9 Roll offs

Submerged Oil Assessment

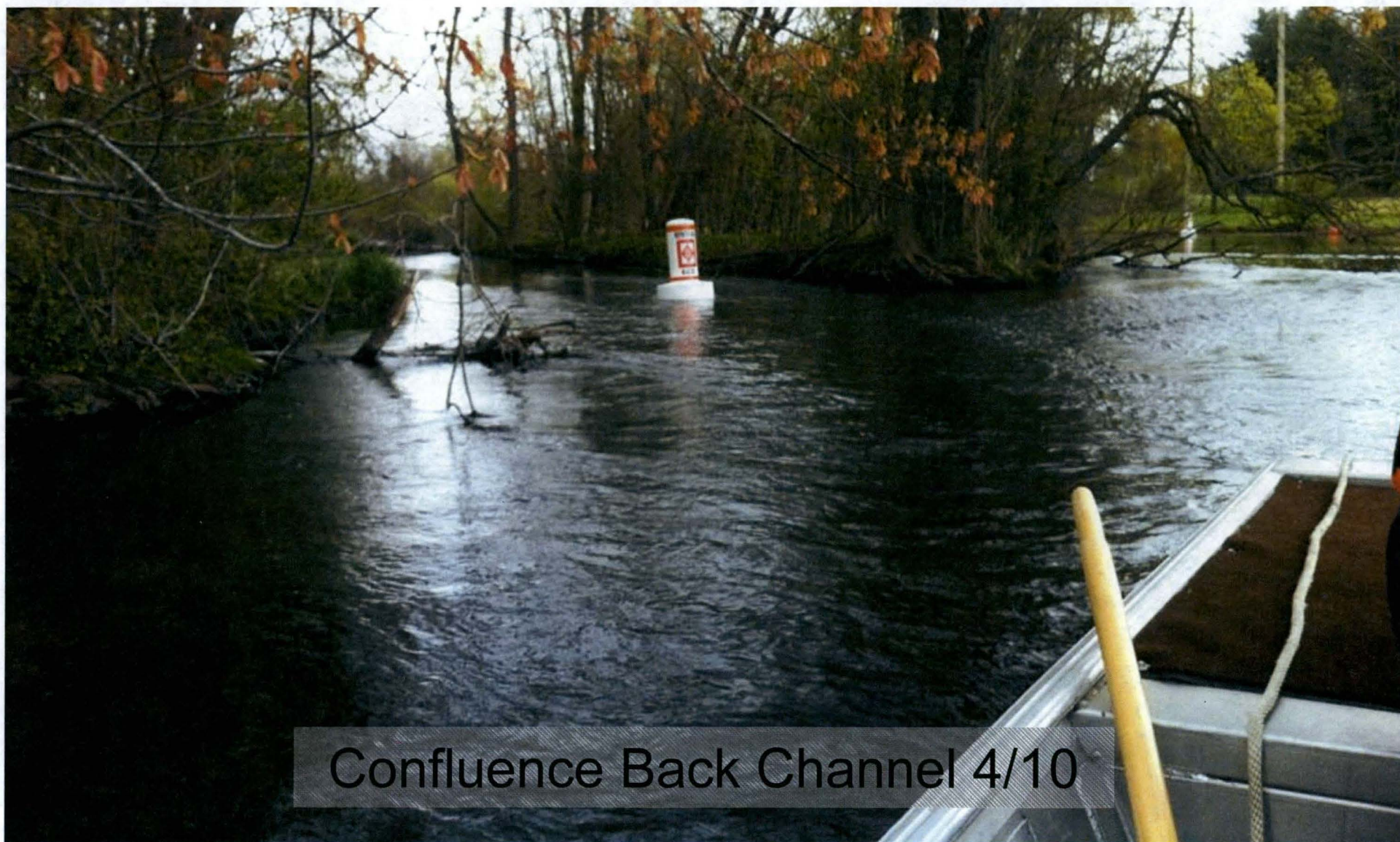
- Phase 1
 - Perrin Dam to Saylor's Landing (MP -2.7 to MP 2.25)
- Phase 2
 - Ceresco to Historic Bridge Park (MP 5.90 – MP 9.50)
 - Historic Bridge Park to Paddler's Grove (MP 9.50 to MP 13.75)
 - Paddler's Grove to Mill Pond Dam (MP 13.75 to MP 15.75)
 - Mill Pond Dam to Jackson Linear Park (MP 15.75 to MP 18.75)
 - Jackson Linear Park to Fort Custer Rec. (MP 18.75 to MP 30.00)
 - Fort Custer Rec. to 35th Street Bridge (MP 30.00 to MP 36. 50)
 - Morrow Lake Delta to Morrow Lake Dam (MP 37.75 to MP 40.00)
- Phase 3
 - Saylor's Landing to Ceresco Dam (MP 2.25 – MP 5.90)
 - 35th Street Bridge to Morrow Lake Delta (MP 36.50 to MP 37.75)

River Reopening Traffic Control



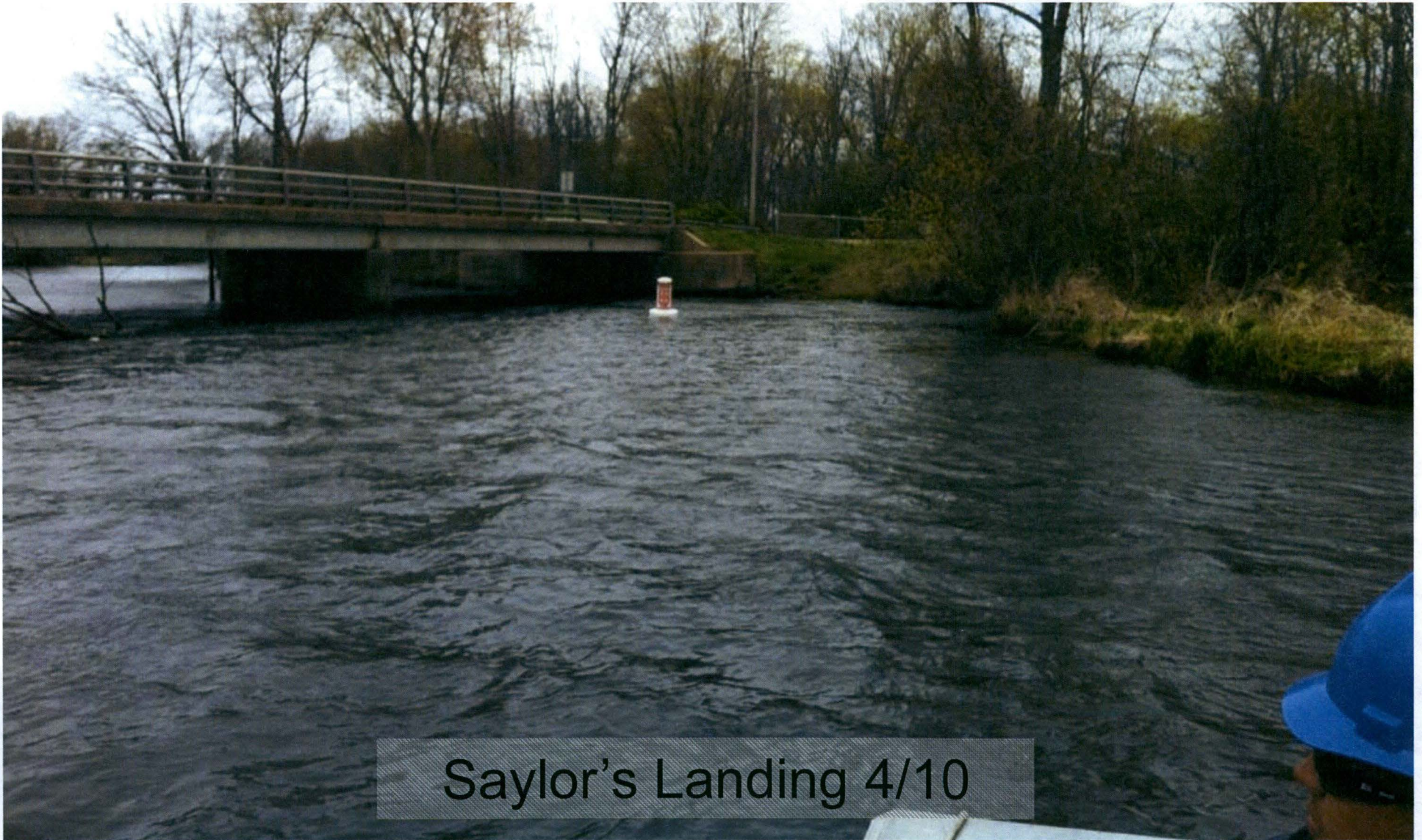
Confluence 4/10

River Reopening Traffic Control



Confluence Back Channel 4/10

River Reopening Traffic Control



Saylor's Landing 4/10

River Reopening Traffic Control

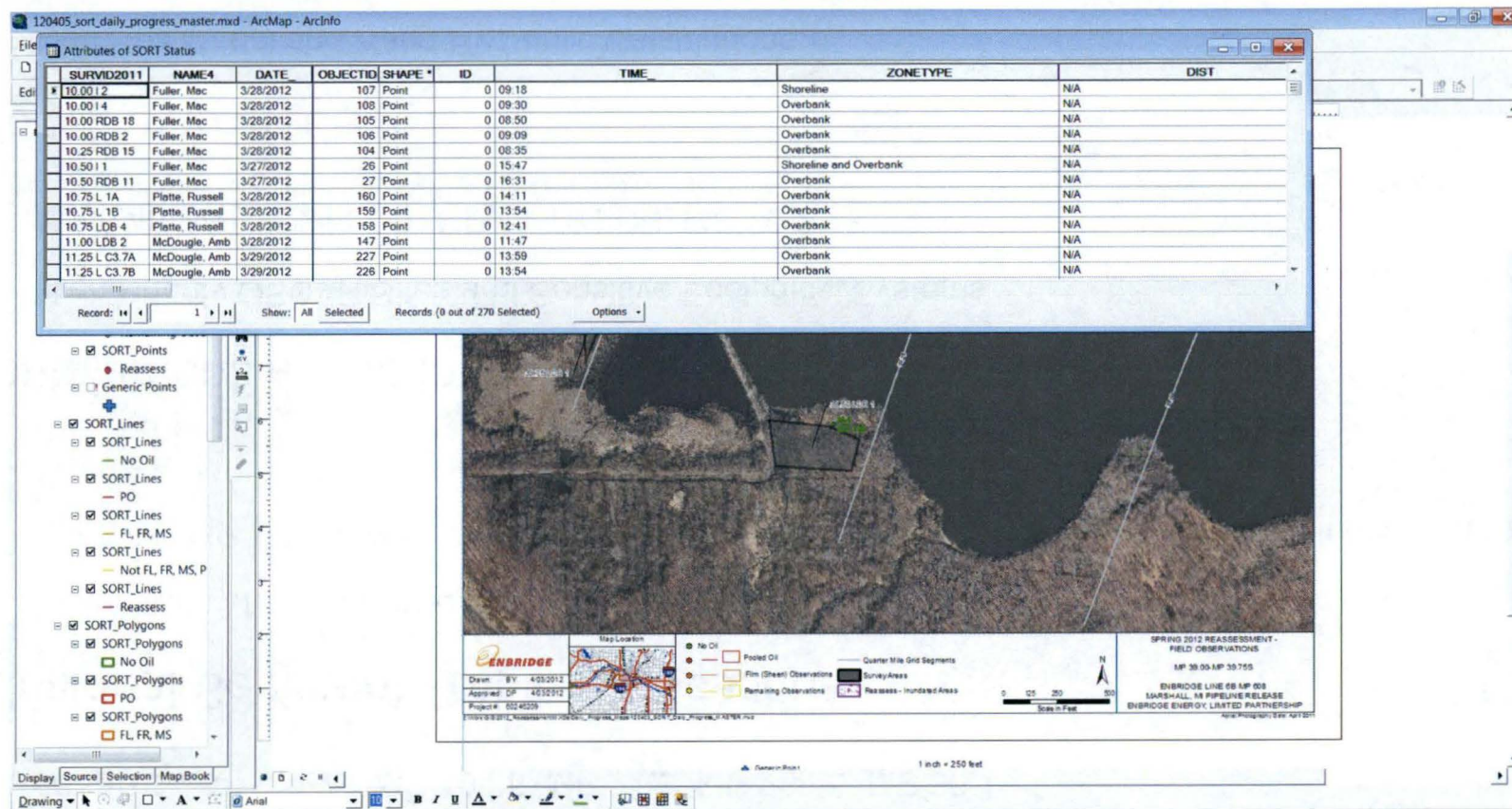


Saylor's Landing 4/10

Containment

- Sediment Traps: 6 locations
 - Submerged Oil Collection
 - MP 10.75, MP 14.75, MP 19.25, MP 21.5, MP 28.25, MP 36.1
- Additional Sediment Traps: 12 locations
 - Taken from Monitoring and Maintenance
 - MP 3.25, MP 5.75, MP 10.4, MP 10.5, MP 26.0, MP 30.8A, MP 30.8B, Delta A, Delta H, Delta Z, Delta EE, MP 37.75
- Containment: 4 locations
 - High Priority OSCAR Sites and Sensitive Ecological Systems
 - MP 8.48, MP 11.21 LDB, MP 11.79 LDB, MP 26.25
- Work Completed:
 - Hec Raz Model and Hand Hydraulic Calculations
 - Permit Development
 - Hydrodynamic Model
 - Monitoring Plan Development and Maintenance Plan Development

OSCAR SORT



- 99.5% complete
- 2 polygons remain
- 97 polygons identified for OSCAR

Remediation Progress

Location

Kalamazoo River Remediation Branch

MP 2.25 to MP 3.14
MP 3.14 to MP 5.80
MP 5.80 to MP 11.00
MP 13.0
MP 11.00 to Morrow Lake

SCIENCE					COMPLIANCE				RECOVERY	MONITORING
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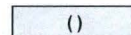
Comments

	E									
	E									
	E									
	E									
	E									

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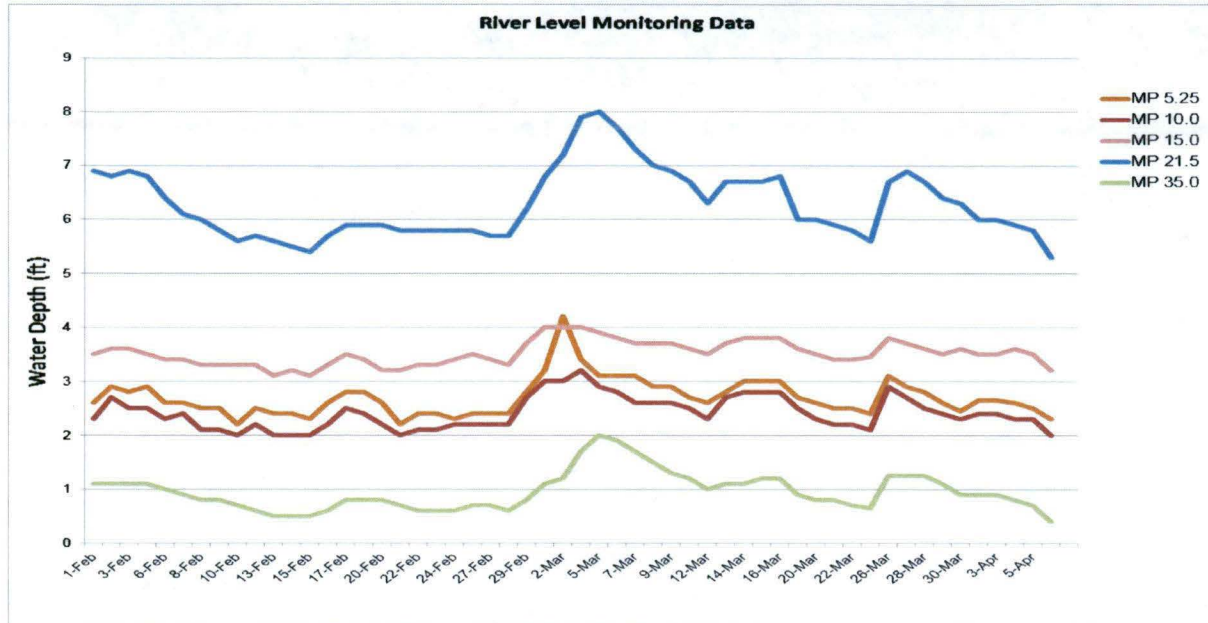
 Revisit Previous Phase

All_Branch_Progress_04-10-2012.xlsx

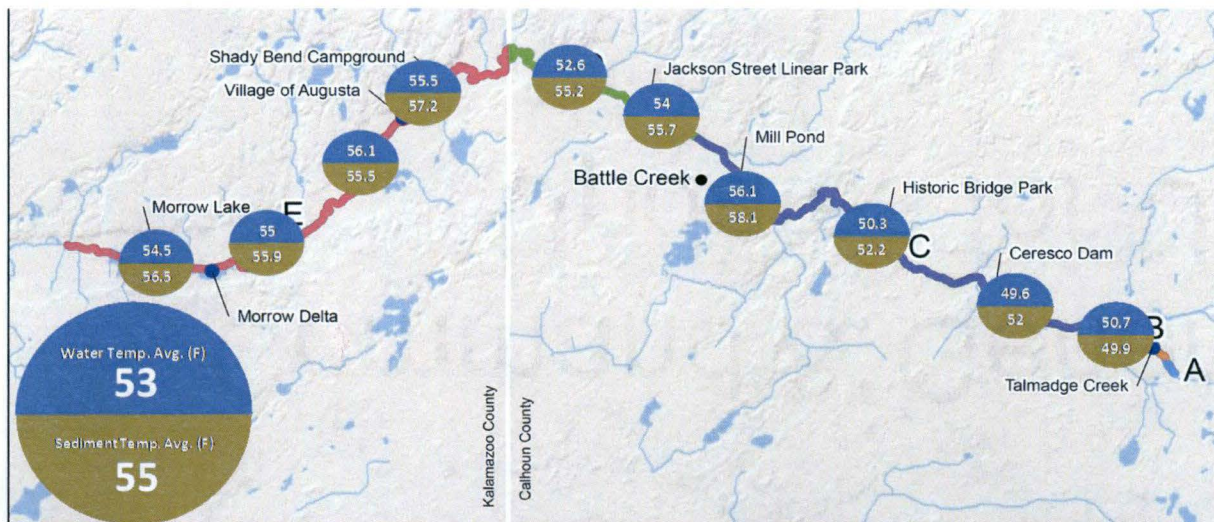


MP 21.5 LDB 4/10

Water Conditions



DISCHARGE RATES (cfs)		
	4/06	4/10
Marshall, MI	520	429
<i>Historical Median</i>	475	457
Battle Creek, MI	930	797
<i>Historical Median</i>	1020	1040



Command & General Staff Updates for UC