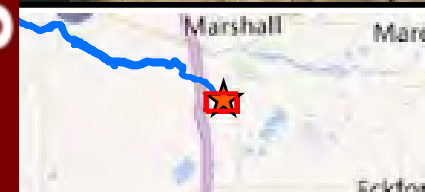


US EPA ARCHIVE DOCUMENT



Spring 2011 Poling Locations
Sub Oil Category Spring 2011
Delineation Boundaries

● Heavy	■ Heavy
● Moderate	■ Moderate
● Light	
● None	

★ Approximate Release Site
▲ River Quarter Mile Marker

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300
Feet



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Contract No.: EP-S5-06-04
TDD: S05-0005-1007-030
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AND 2011 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012**

Map 1 of 49



Spring 2011 Poling Locations
Sub Oil Category
● Heavy
● Moderate
● Light
● None

Spring 2011 Delineation Boundaries
■ Heavy
■ Moderate

★ Approximate Release Site
▲ River Quarter Mile Marker

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AND 2011 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012**



Spring 2011 Poling Locations
Sub Oil Category
● Heavy
● Moderate
● Light
● None

Spring 2011 Delineation Boundaries
■ Heavy
■ Moderate

★ Approximate Release Site
▲ River Quarter Mile Marker

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300
Feet



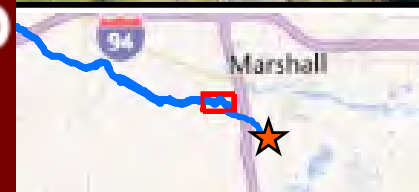
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AND 2011 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012**

Map 3 of 49



Spring 2011 Poling Locations
Sub Oil Category
● Heavy
● Moderate
● Light
● None

Spring 2011 Delineation Boundaries
■ Heavy
■ Moderate

★ Approximate Release Site
▲ River Quarter Mile Marker

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300



Feet



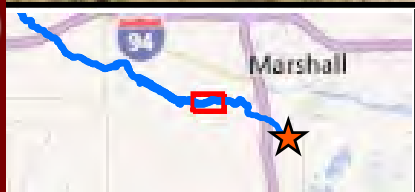
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AND 2011 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012**

Map 4 of 49



Spring 2011 Poling Locations
Sub Oil Category

- Heavy
- Moderate
- Light
- None

Spring 2011 Delineation Boundaries

- Heavy
- Moderate

★ Approximate Release Site
▲ River Quarter Mile Marker

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300
Feet



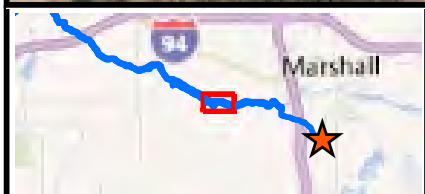
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AND 2011 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012**

Map 5 of 49



Spring 2011 Poling Locations
Sub Oil Category Spring 2011
Delineation Boundaries

- Heavy
- Moderate
- Light
- None

■ Heavy
■ Moderate

★ Approximate Release Site
▲ River Quarter Mile Marker

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300



Feet



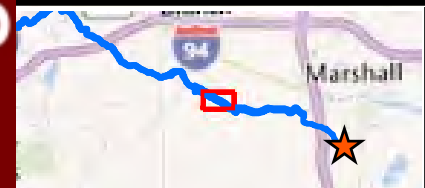
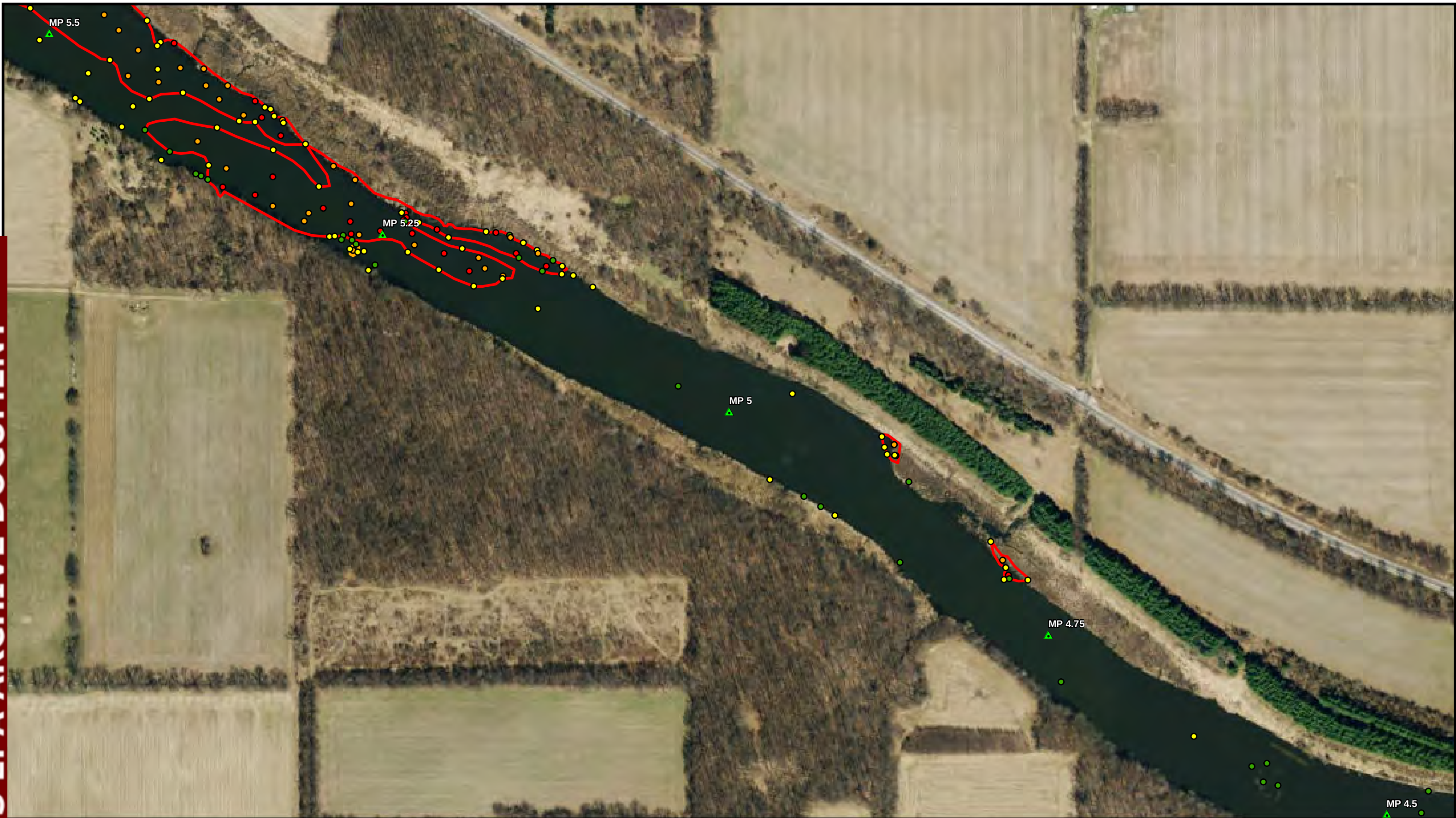
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MARSHALL, MI PIPELINE RELEASE
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CREATED: SEPTEMBER 2012**

Map 6 of 49



Spring 2011 Poling Locations
Sub Oil Category
● Heavy
● Moderate
● Light
● None

Spring 2011 Delineation Boundaries
■ Heavy
■ Moderate

★ Approximate Release Site
▲ River Quarter Mile Marker

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300
Feet



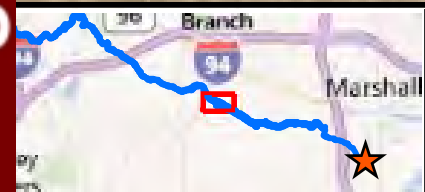
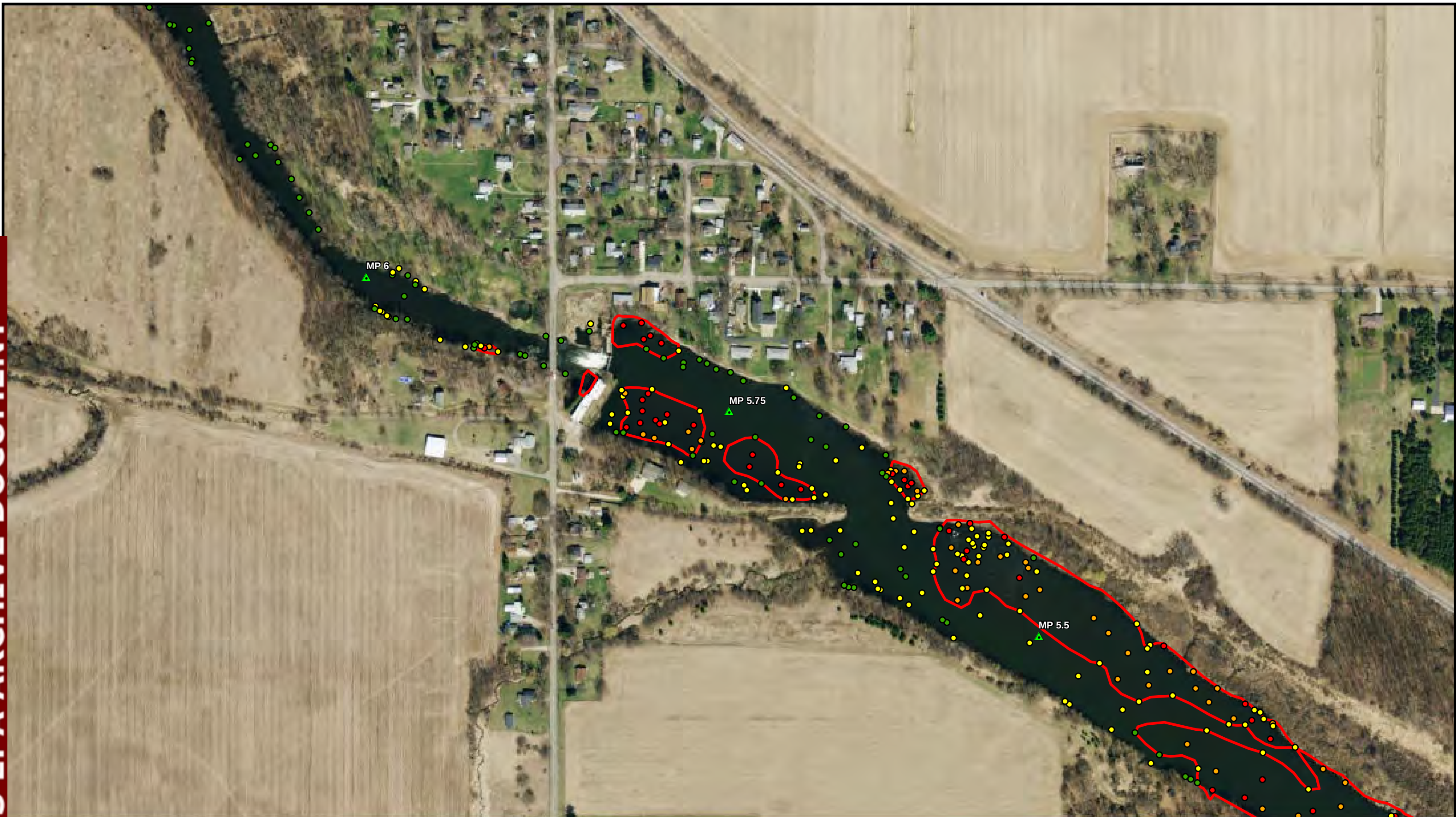
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AND 2011 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012**

Map 7 of 49



Spring 2011 Poling Locations	
Sub Oil Category	Spring 2011 Delineation Boundaries
● Heavy	■ Heavy
● Moderate	■ Moderate
● Light	
● None	

★ Approximate Release Site
▲ River Quarter Mile Marker

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300
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AND 2011 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012**



Spring 2011 Poling Locations
Sub Oil Category
● Heavy
● Moderate
● Light
● None

Spring 2011 Delineation Boundaries
□ Heavy
□ Moderate

★ Approximate Release Site
▲ River Quarter Mile Marker

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300



Feet



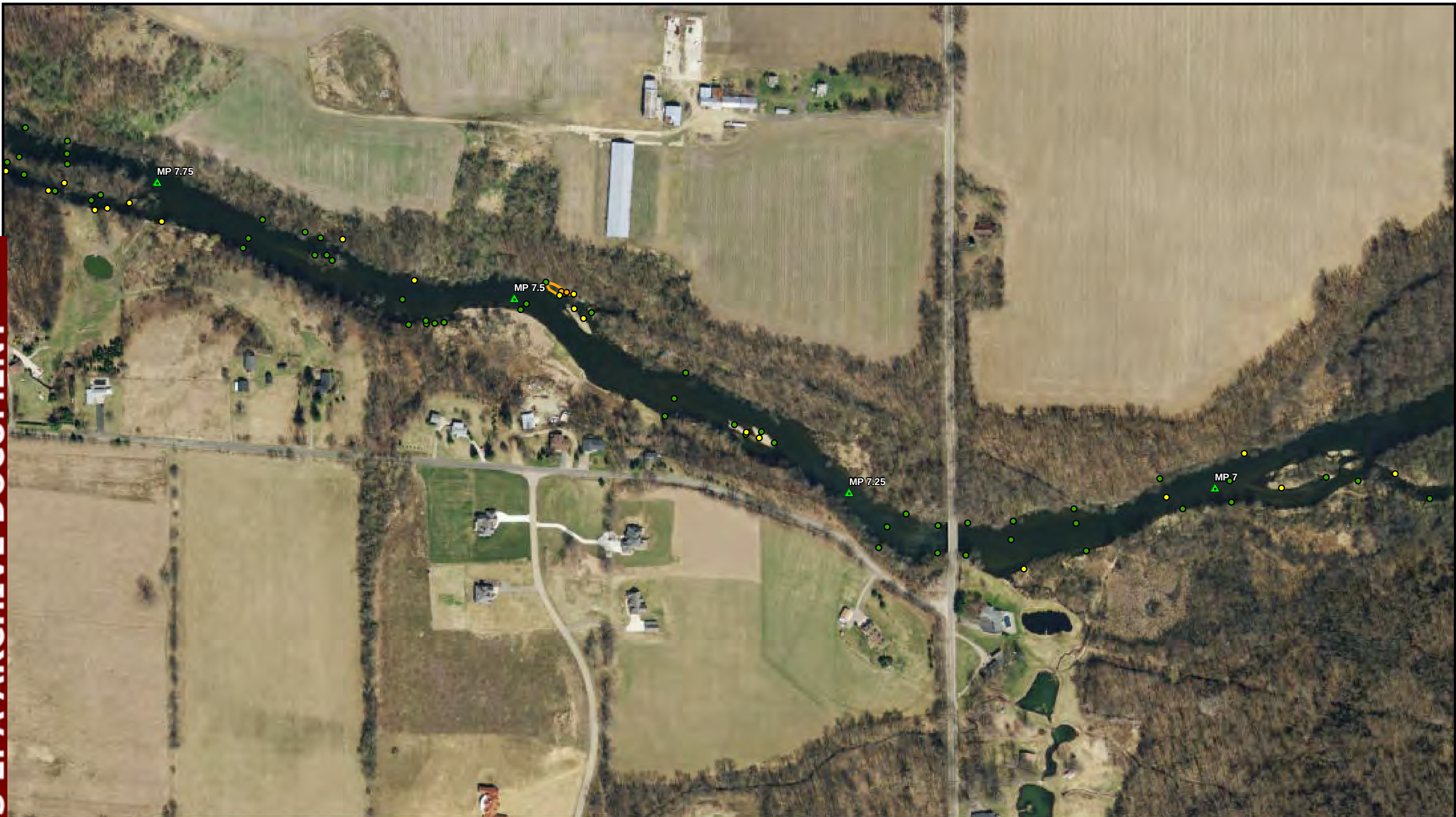
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AND 2011 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012**

Map 9 of 49



Spring 2011 Poling Locations
Sub Oil Category
● Heavy
● Moderate
● Light
● None

Spring 2011 Delineation Boundaries
■ Heavy
■ Moderate

★ Approximate Release Site
▲ River Quarter Mile Marker

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300
Feet



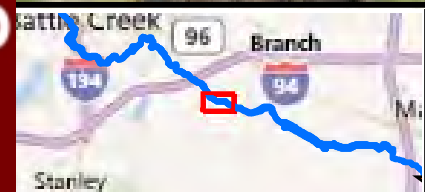
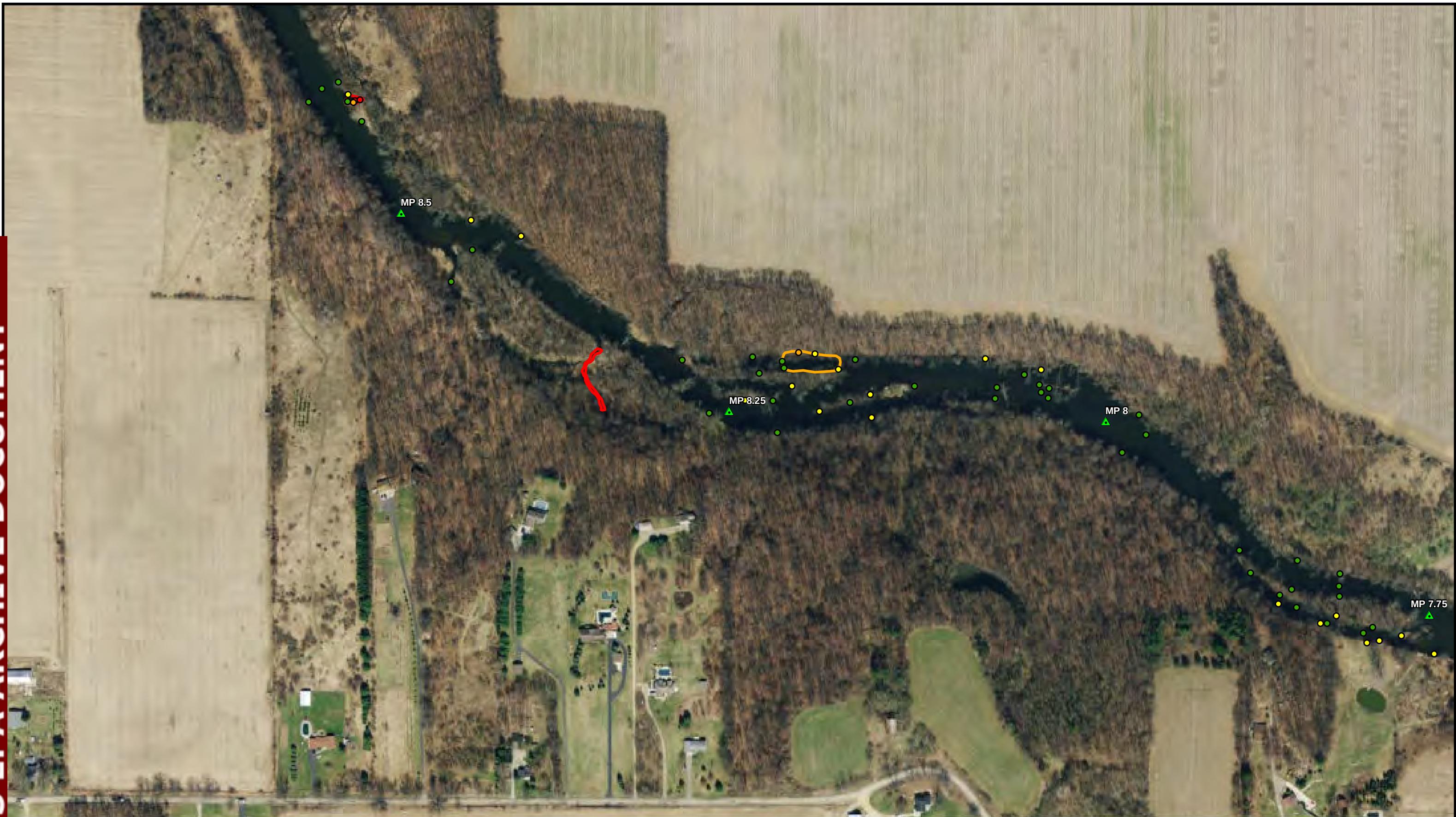
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MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012**

Map 10 of 49



Spring 2011 Poling Locations
Sub Oil Category
● Heavy
● Moderate
● Light
● None

Spring 2011 Delineation Boundaries
■ Heavy
■ Moderate

★ Approximate Release Site
▲ River Quarter Mile Marker

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300
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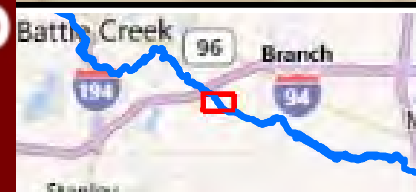
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MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012**

Map 11 of 49



Spring 2011 Poling Locations
Sub Oil Category Spring 2011 Delineation Boundaries

● Heavy	■ Heavy
● Moderate	■ Moderate
● Light	
● None	

★ Approximate Release Site
▲ River Quarter Mile Marker

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300



Feet



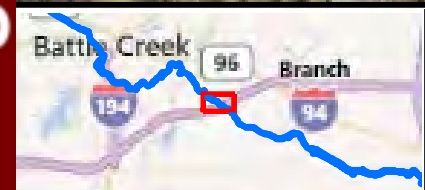
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MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012**

Map 12 of 49



Spring 2011 Poling Locations
Sub Oil Category
● Heavy
● Moderate
● Light
● None

Spring 2011 Delineation Boundaries
■ Heavy
■ Moderate

★ Approximate Release Site
▲ River Quarter Mile Marker

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300



Feet



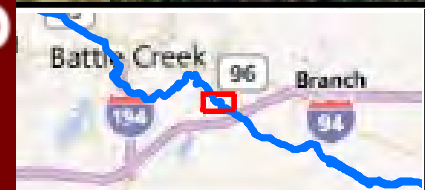
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AND 2011 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012**

Map 13 of 49



Spring 2011 Poling Locations
Sub Oil Category
● Heavy
● Moderate
● Light
● None

Spring 2011 Delineation Boundaries
■ Heavy
■ Moderate

★ Approximate Release Site
▲ River Quarter Mile Marker

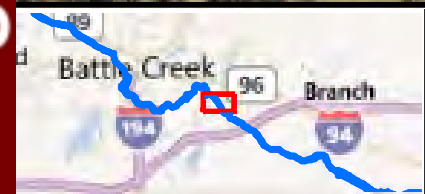
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300 Feet

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MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012

Map 14 of 49



Spring 2011 Poling Locations
Sub Oil Category
● Heavy
● Moderate
● Light
● None

Spring 2011 Delineation Boundaries
Heavy
Moderate

★ Approximate Release Site
▲ River Quarter Mile Marker

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300



Feet



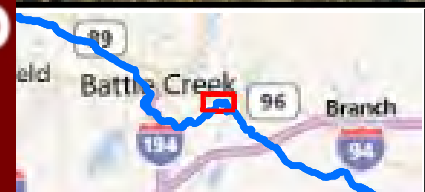
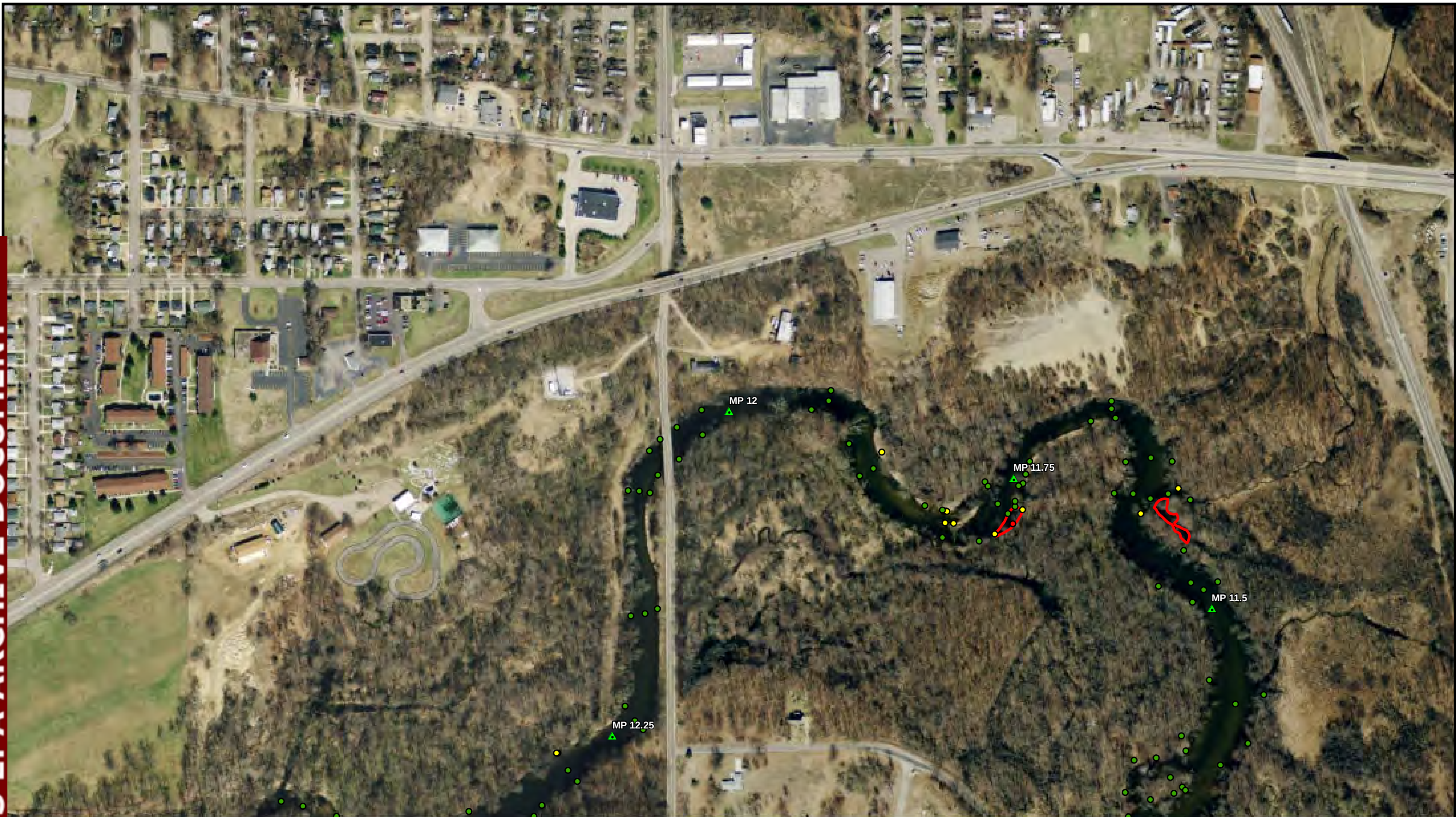
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AND 2011 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012**

Map 15 of 49



Spring 2011 Poling Locations	Spring 2011 Delineation Boundaries	Approximate Release Site
Heavy	Heavy	River Quarter Mile Marker
Moderate	Moderate	
Light		
None		

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300 Feet

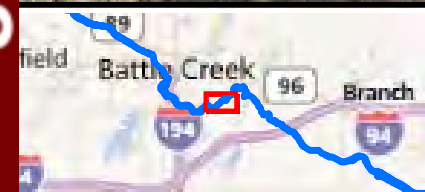


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MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012



Spring 2011 Poling Locations
Sub Oil Category
● Heavy
● Moderate
● Light
● None

Spring 2011 Delineation Boundaries
■ Heavy
■ Moderate

★ Approximate Release Site
▲ River Quarter Mile Marker

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300
Feet



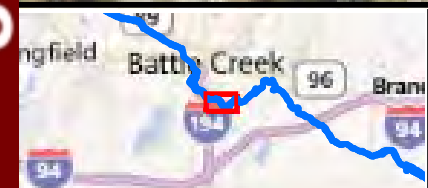
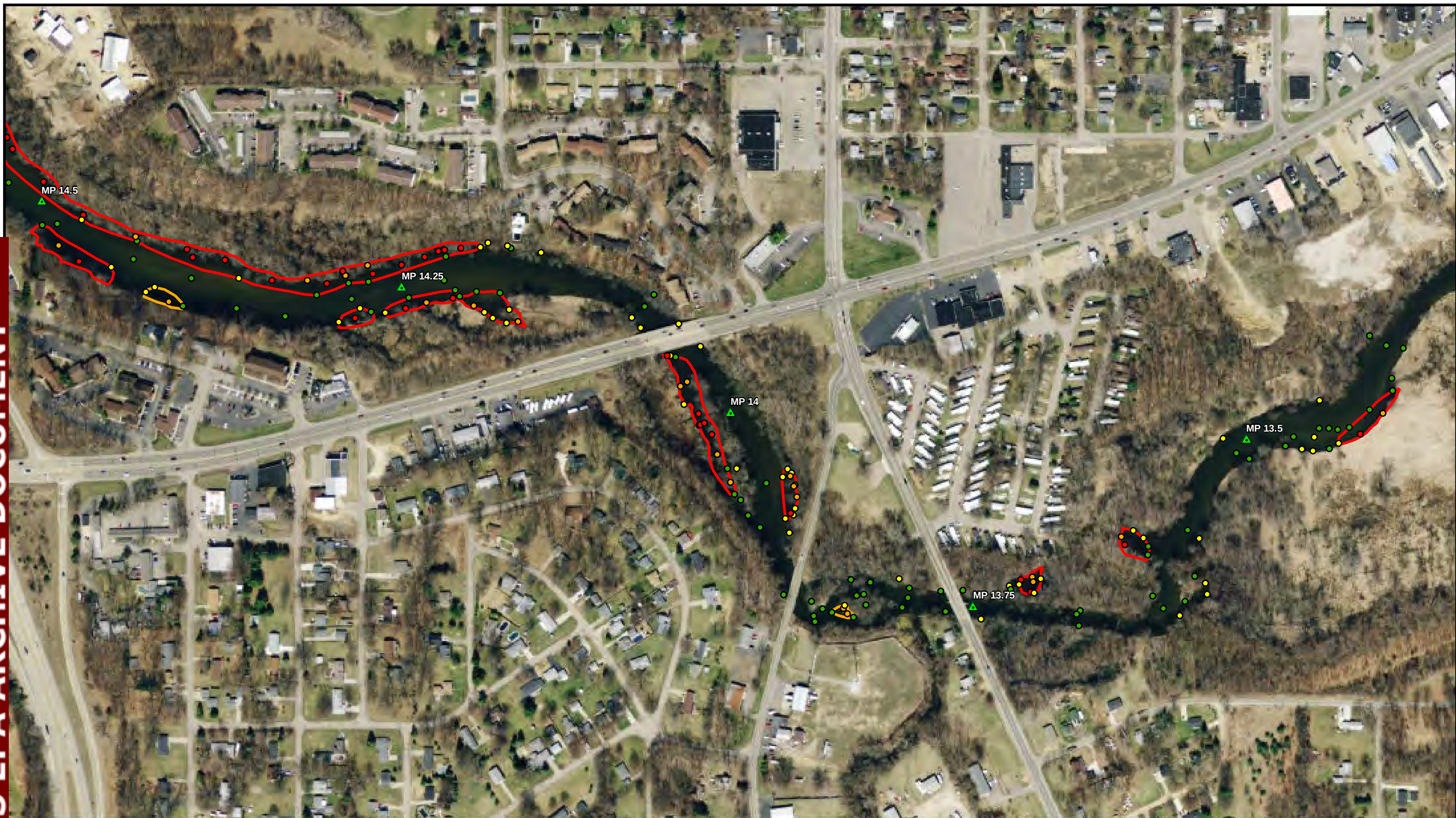
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AND 2011 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012**

Map 17 of 49



Spring 2011 Poling Locations
Sub Oil Category
● Heavy
● Moderate
● Light
● None

Spring 2011 Delineation Boundaries
■ Heavy
■ Moderate

★ Approximate Release Site
▲ River Quarter Mile Marker

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300



Feet



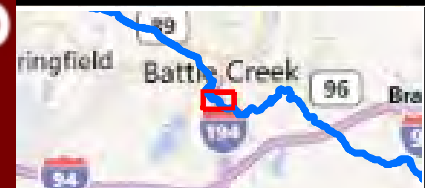
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MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012**

Map 18 of 49



Spring 2011 Poling Locations
Sub Oil Category

- Heavy
- Moderate
- Light
- None

Spring 2011 Delineation Boundaries

- Heavy
- Moderate

★ Approximate Release Site
▲ River Quarter Mile Marker

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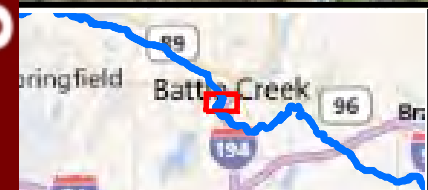
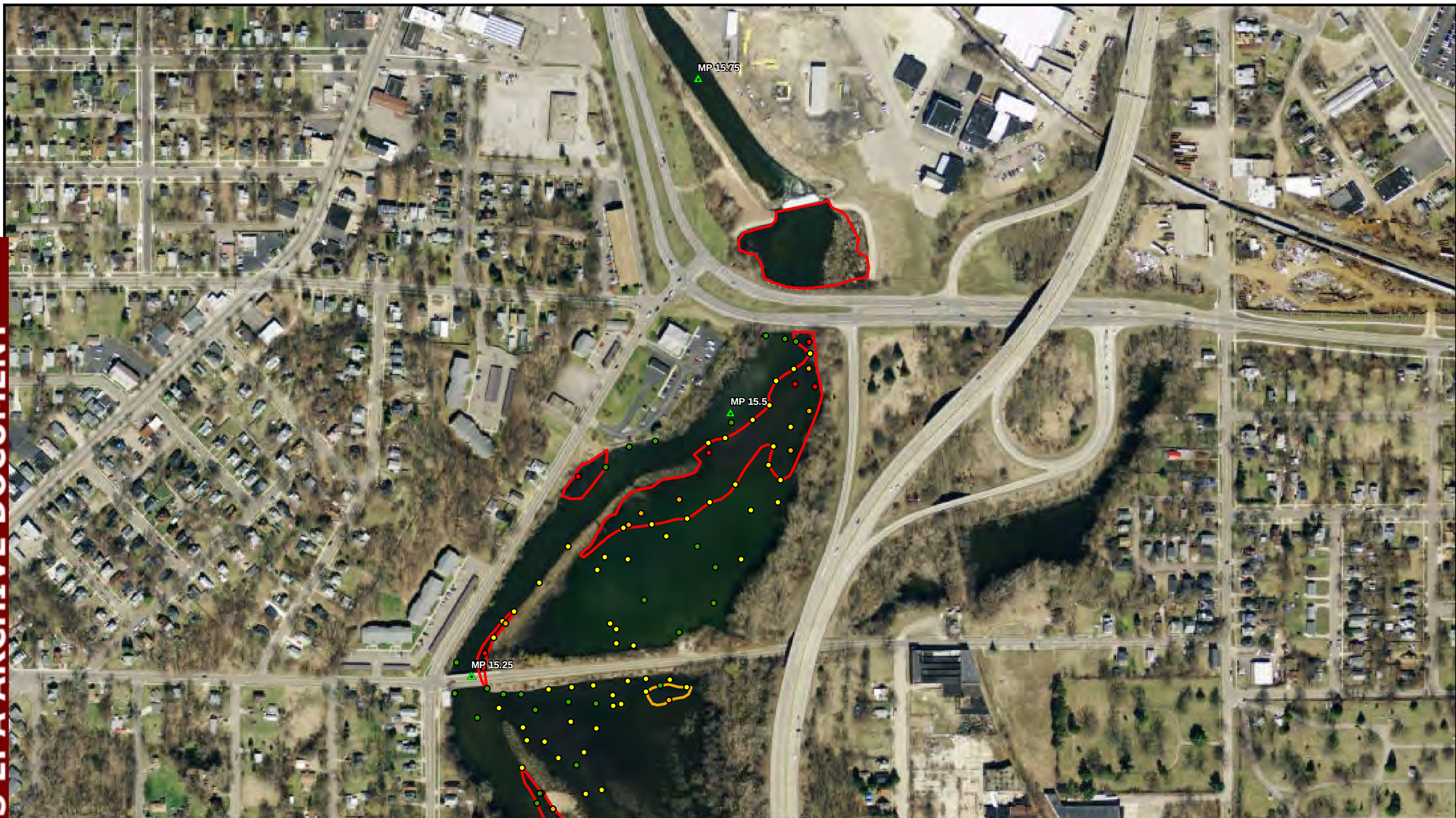
300
Feet

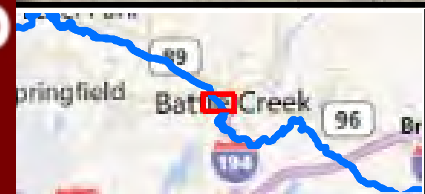
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AND 2011 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012

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Spring 2011 Poling Locations
Sub Oil Category
● Heavy
● Moderate
● Light
● None

Spring 2011 Delineation Boundaries
■ Heavy
■ Moderate

★ Approximate Release Site
▲ River Quarter Mile Marker

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300
Feet



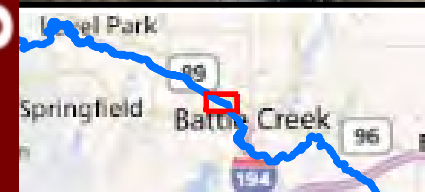
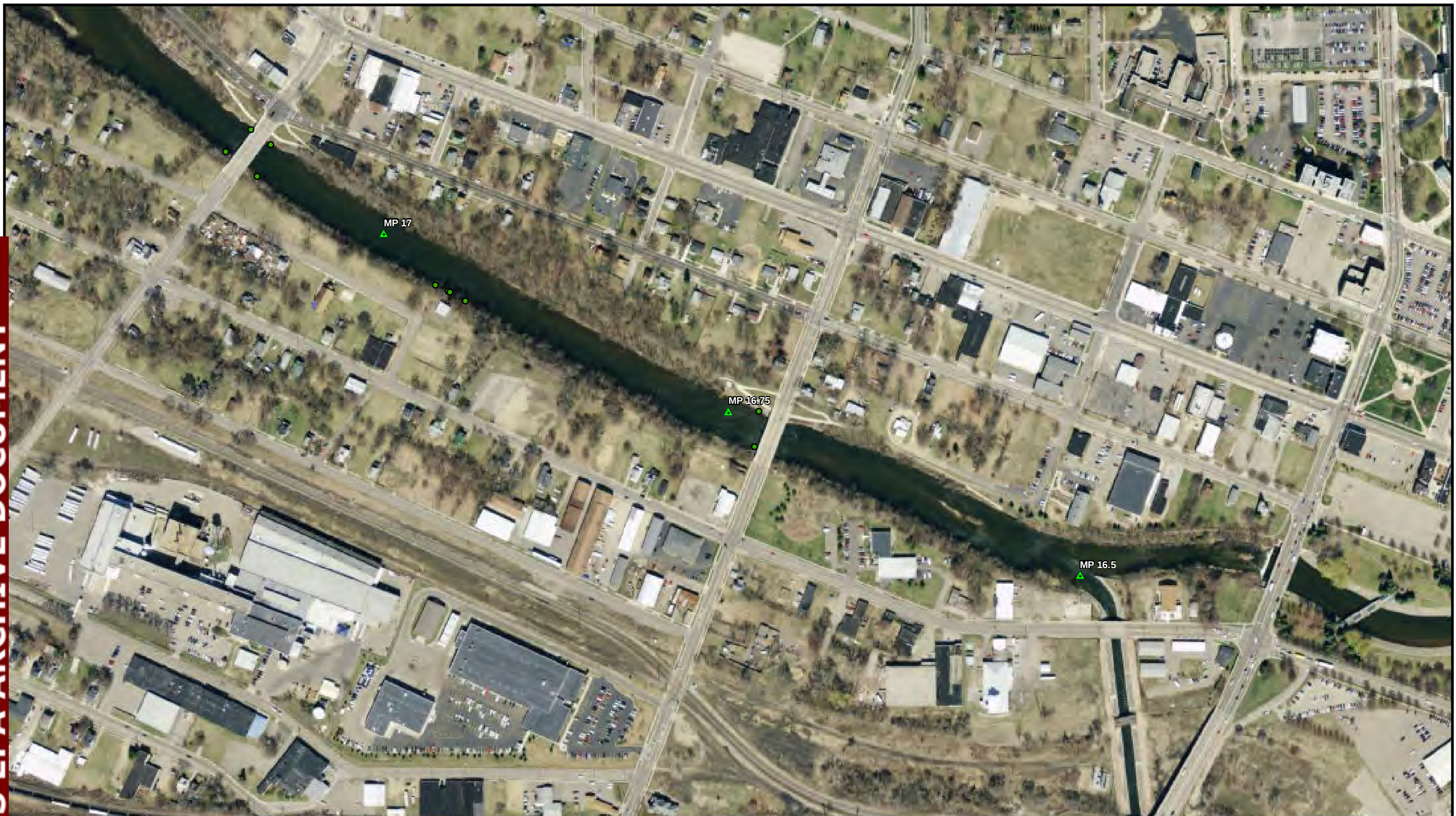
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MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012**

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Spring 2011 Poling Locations

Sub Oil Category

- Heavy
- Moderate
- Light
- None

Spring 2011 Delineation Boundaries

- Heavy
- Moderate

★ Approximate Release Site

▲ River Quarter Mile Marker

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300 Feet

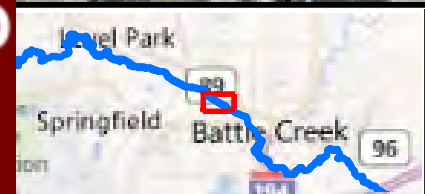
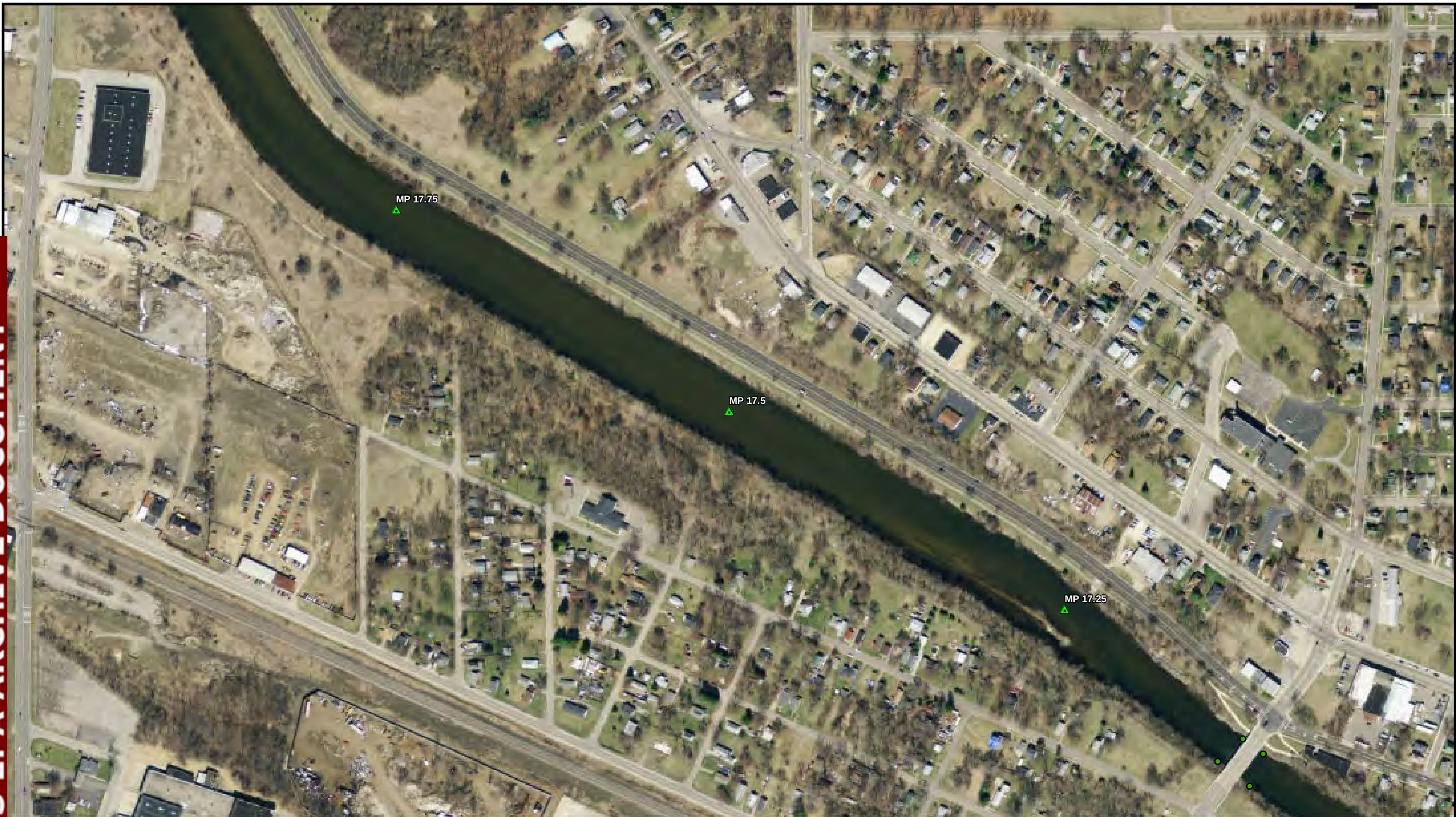
North Arrow

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MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012

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Spring 2011 Poling Locations
Sub Oil Category
● Heavy
● Moderate
● Light
● None

Spring 2011 Delineation Boundaries
■ Heavy
■ Moderate

★ Approximate Release Site
▲ River Quarter Mile Marker

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300
Feet

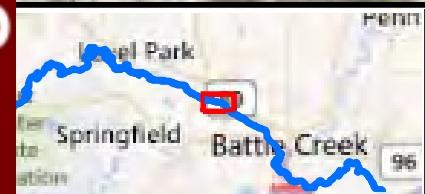
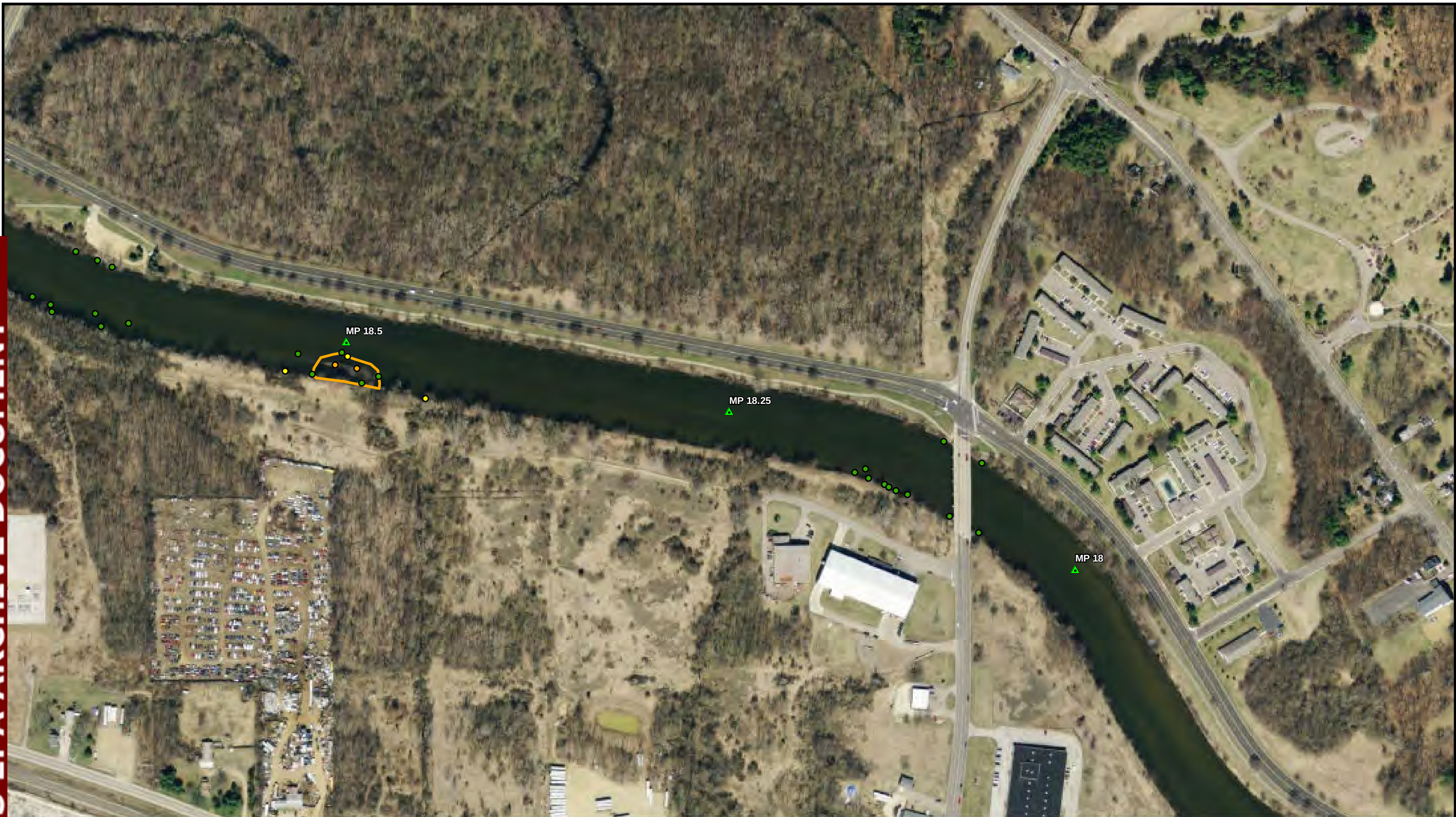


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CREATED: SEPTEMBER 2012



Spring 2011 Poling Locations
Sub Oil Category
● Heavy
● Moderate
● Light
● None

Spring 2011 Delineation Boundaries
■ Heavy
■ Moderate

★ Approximate Release Site
▲ River Quarter Mile Marker

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300
Feet



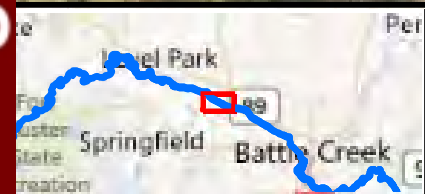
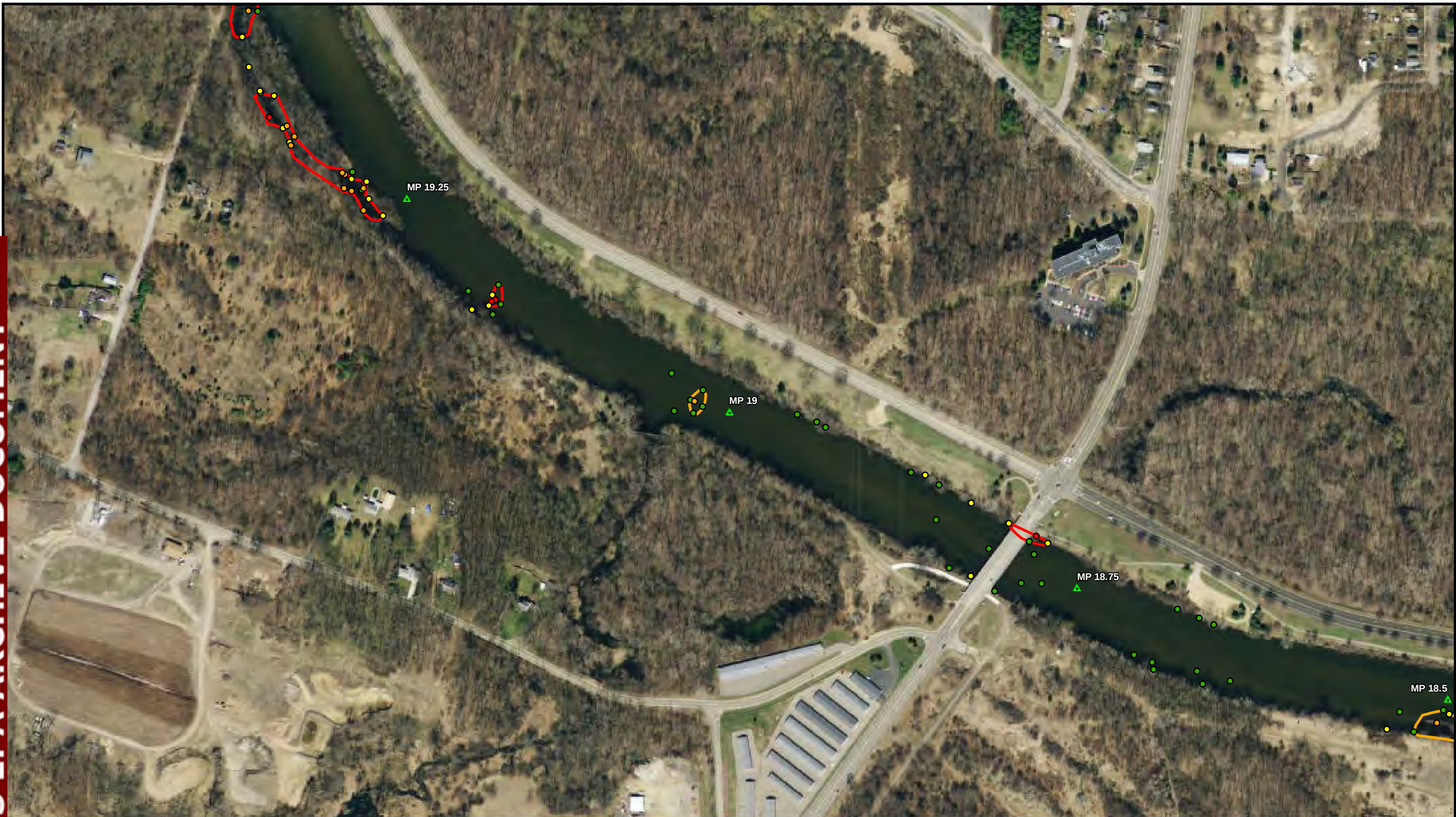
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MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012**

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Spring 2011 Poling Locations	
Sub Oil Category	Spring 2011 Delineation Boundaries
● Heavy	■ Heavy
● Moderate	■ Moderate
● Light	
● None	

★ Approximate Release Site
▲ River Quarter Mile Marker

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300
Feet

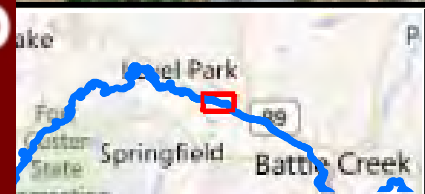
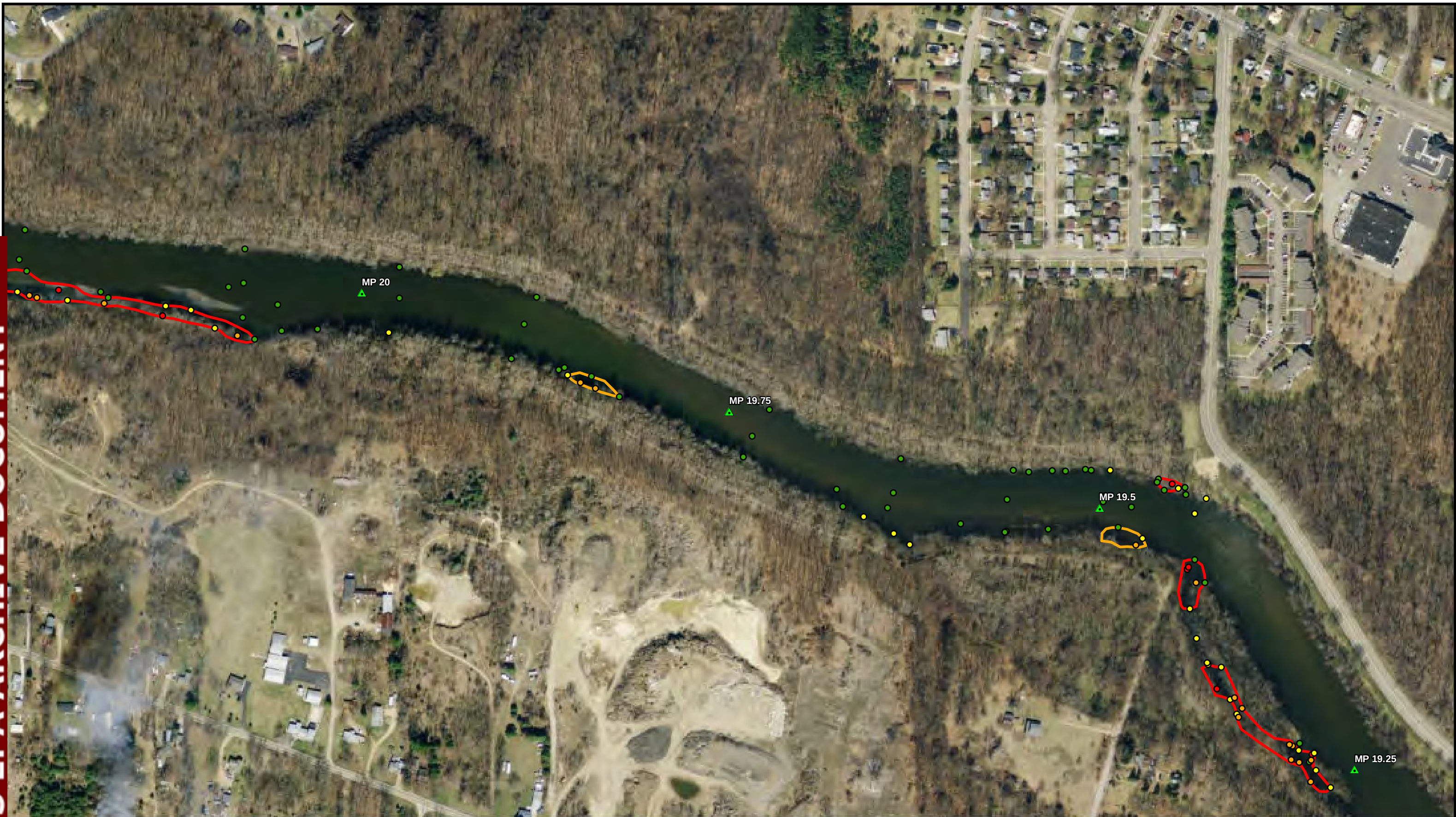


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TDD: S05-0005-1007-030
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Okemos, MI

SPRING 2011 POLING REASSESSMENT LOCATIONS
AND 2011 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012



Spring 2011 Poling Locations
Sub Oil Category
● Heavy
● Moderate
● Light
● None

Spring 2011 Delineation Boundaries
■ Heavy
■ Moderate

★ Approximate Release Site
▲ River Quarter Mile Marker

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300



Feet



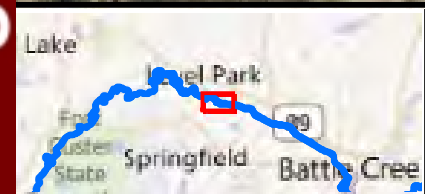
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AND 2011 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012**

Map 26 of 49



Spring 2011 Poling Locations
Sub Oil Category
● Heavy
● Moderate
● Light
● None

Spring 2011 Delineation Boundaries
■ Heavy
■ Moderate

★ Approximate Release Site
▲ River Quarter Mile Marker

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300



Feet



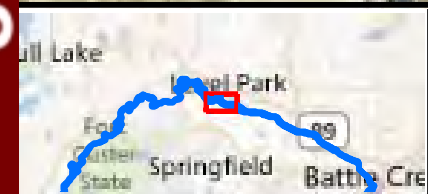
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AND 2011 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012**

Map 27 of 49



Spring 2011 Poling Locations	
Sub Oil Category	Spring 2011 Delineation Boundaries
● Heavy	■ Heavy
● Moderate	■ Moderate
● Light	
● None	

★ Approximate Release Site
▲ River Quarter Mile Marker

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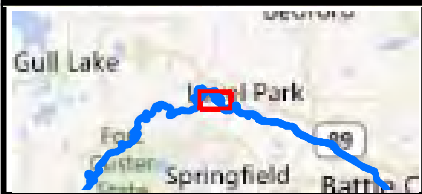
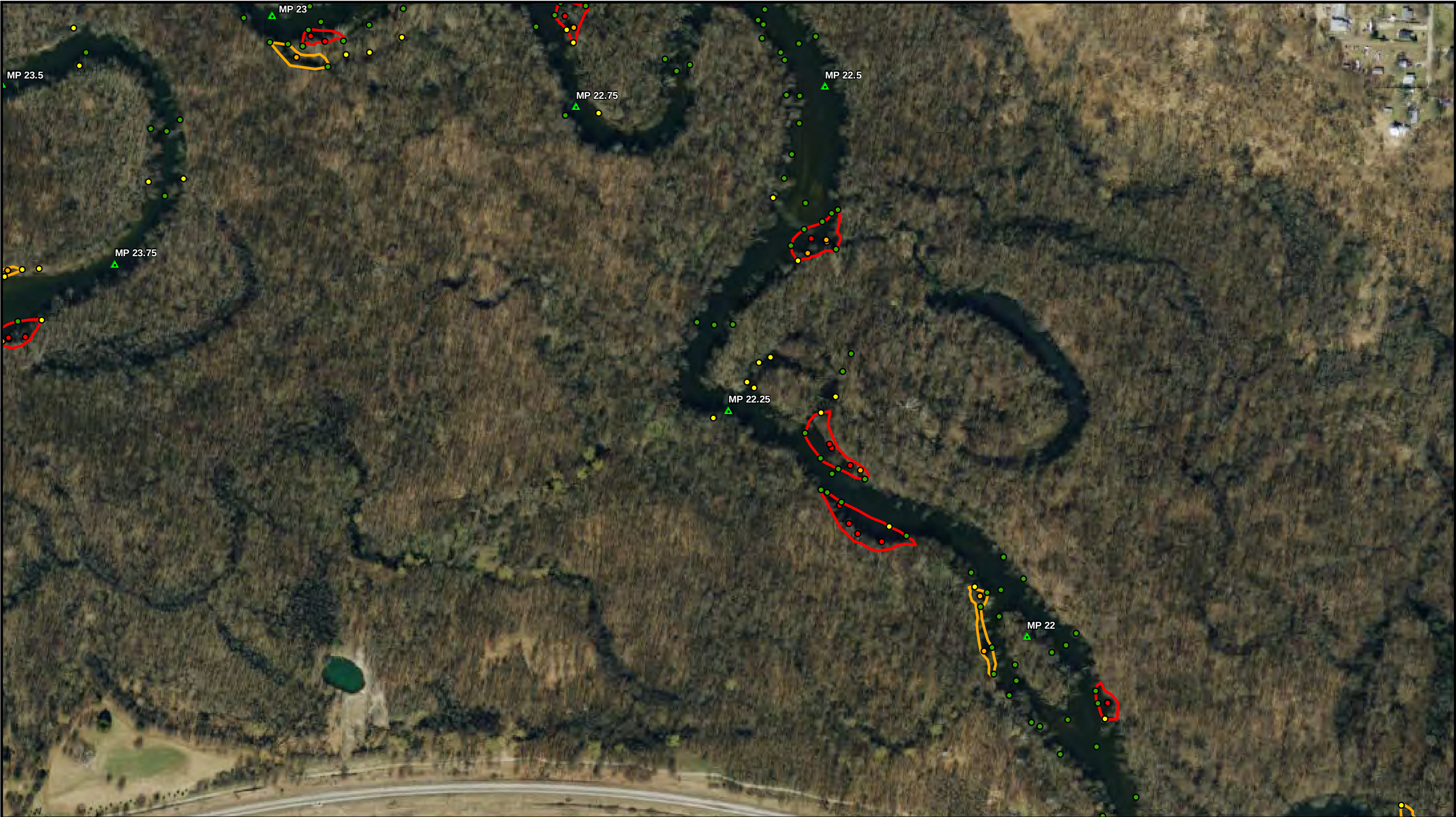
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Feet

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AND 2011 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012**

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Spring 2011 Poling Locations
Sub Oil Category
● Heavy
● Moderate
● Light
● None

Spring 2011 Delineation Boundaries
□ Heavy
□ Moderate

★ Approximate Release Site
▲ River Quarter Mile Marker

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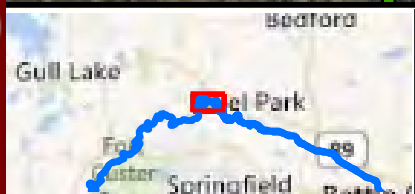
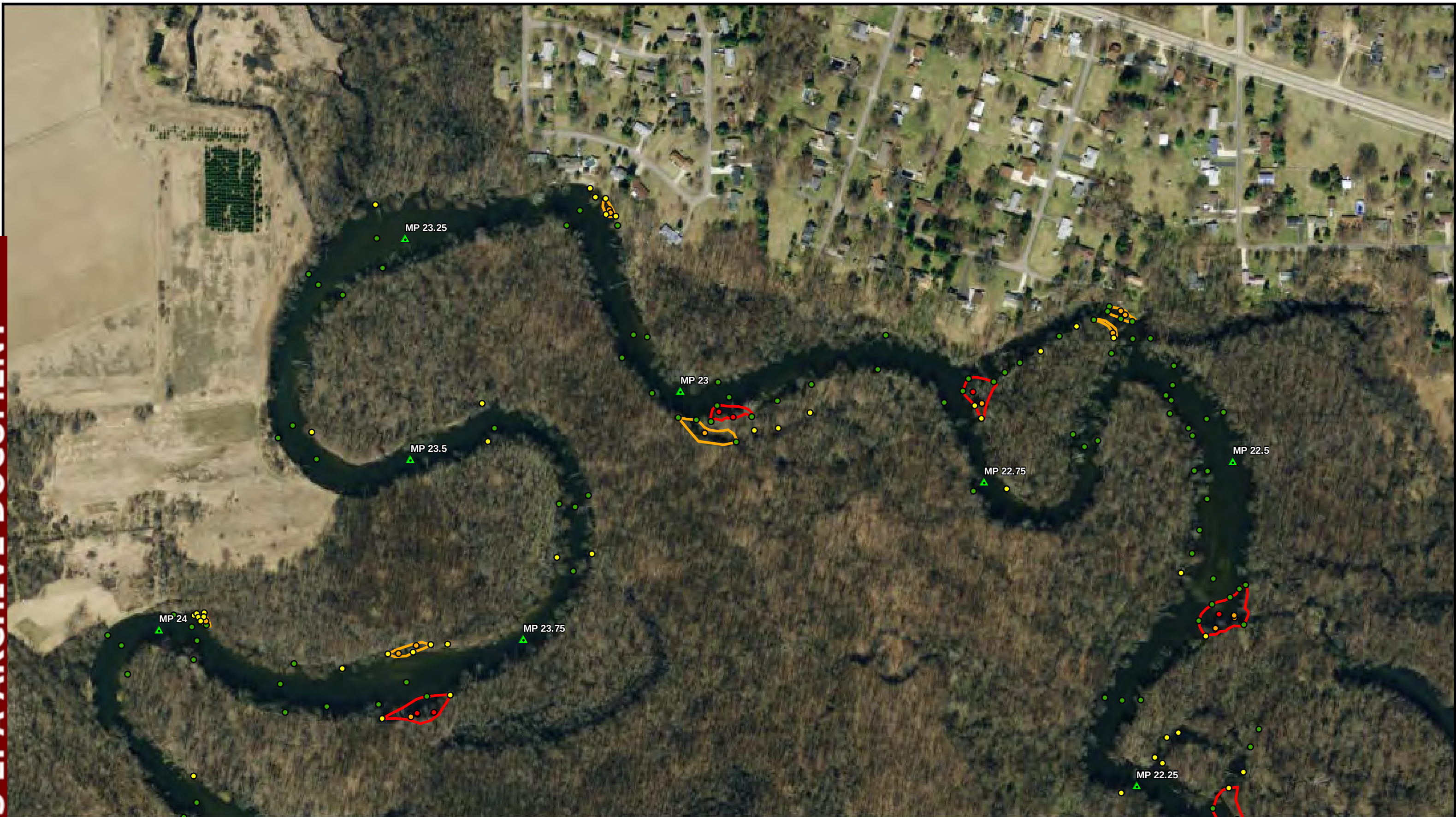
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Feet

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AND 2011 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012**

Map 29 of 49



Spring 2011 Poling Locations	
Sub Oil Category	Spring 2011 Delineation Boundaries
● Heavy	■ Heavy
● Moderate	■ Moderate
● Light	
● None	

★ Approximate Release Site
▲ River Quarter Mile Marker

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300
Feet

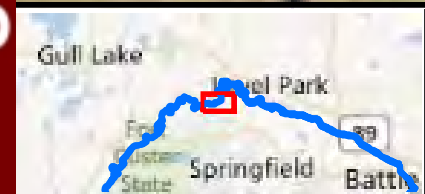


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AND 2011 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012**



Spring 2011 Poling Locations
Sub Oil Category
● Heavy
● Moderate
● Light
● None

Spring 2011 Delineation Boundaries
□ Heavy
□ Moderate

★ Approximate Release Site
▲ River Quarter Mile Marker

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300
Feet



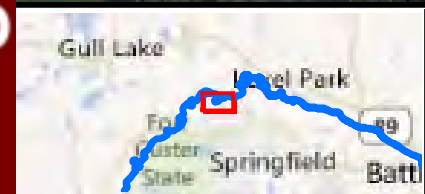
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MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012**

Map 31 of 49



Spring 2011 Poling Locations	
Sub Oil Category	Spring 2011 Delineation Boundaries
● Heavy	■ Heavy
● Moderate	■ Moderate
● Light	
● None	

★ Approximate Release Site
▲ River Quarter Mile Marker

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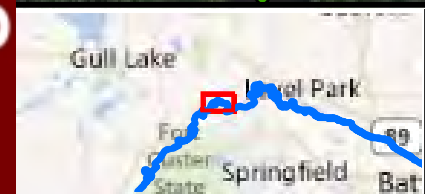
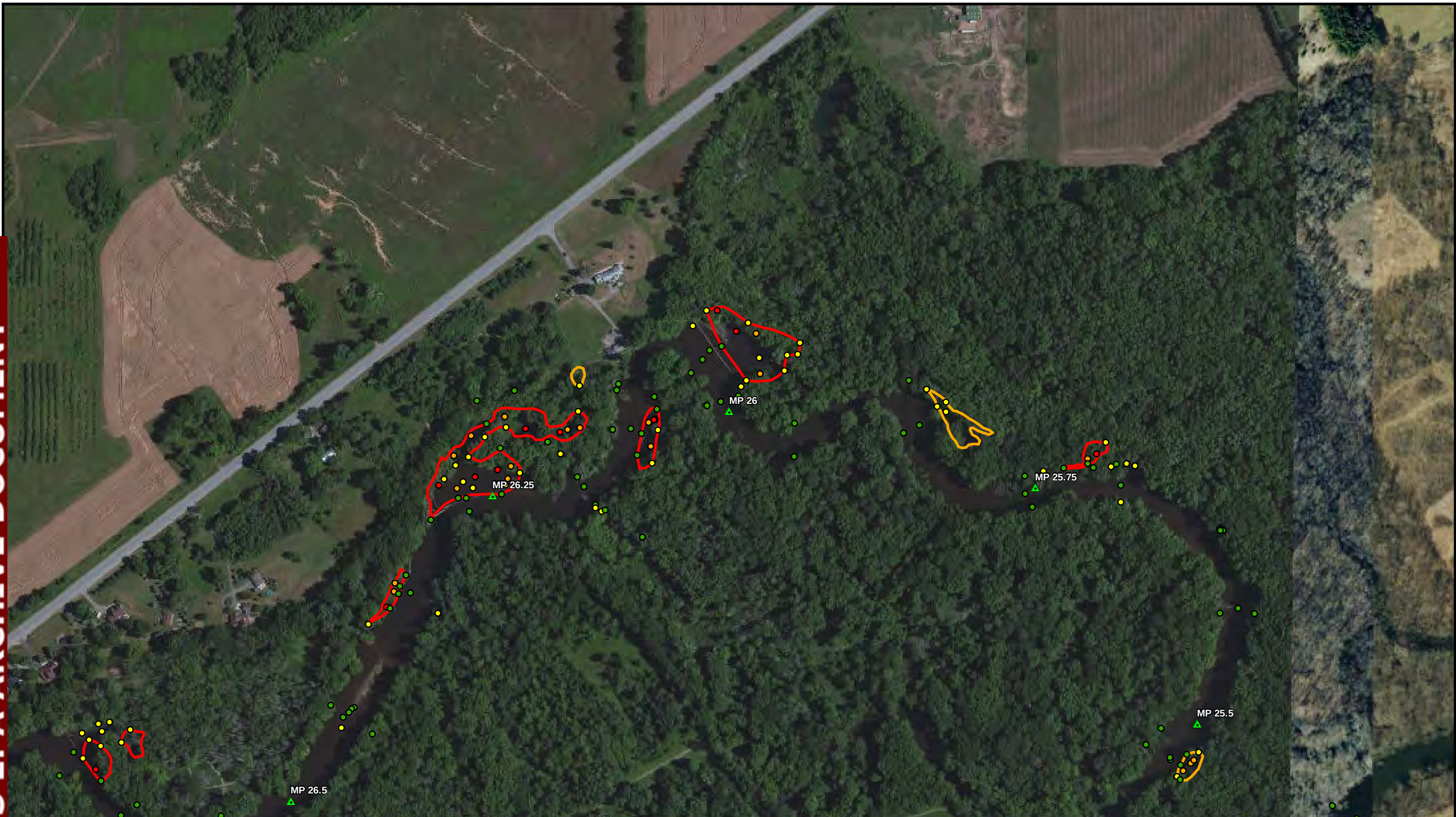
300
Feet

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AND 2011 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012**

Map 32 of 49



Spring 2011 Poling Locations	
Sub Oil Category	Spring 2011 Delineation Boundaries
● Heavy	■ Heavy
● Moderate	■ Moderate
● Light	
● None	

★ Approximate Release Site
▲ River Quarter Mile Marker

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300
Feet

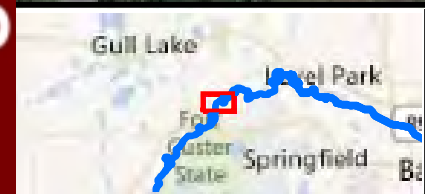
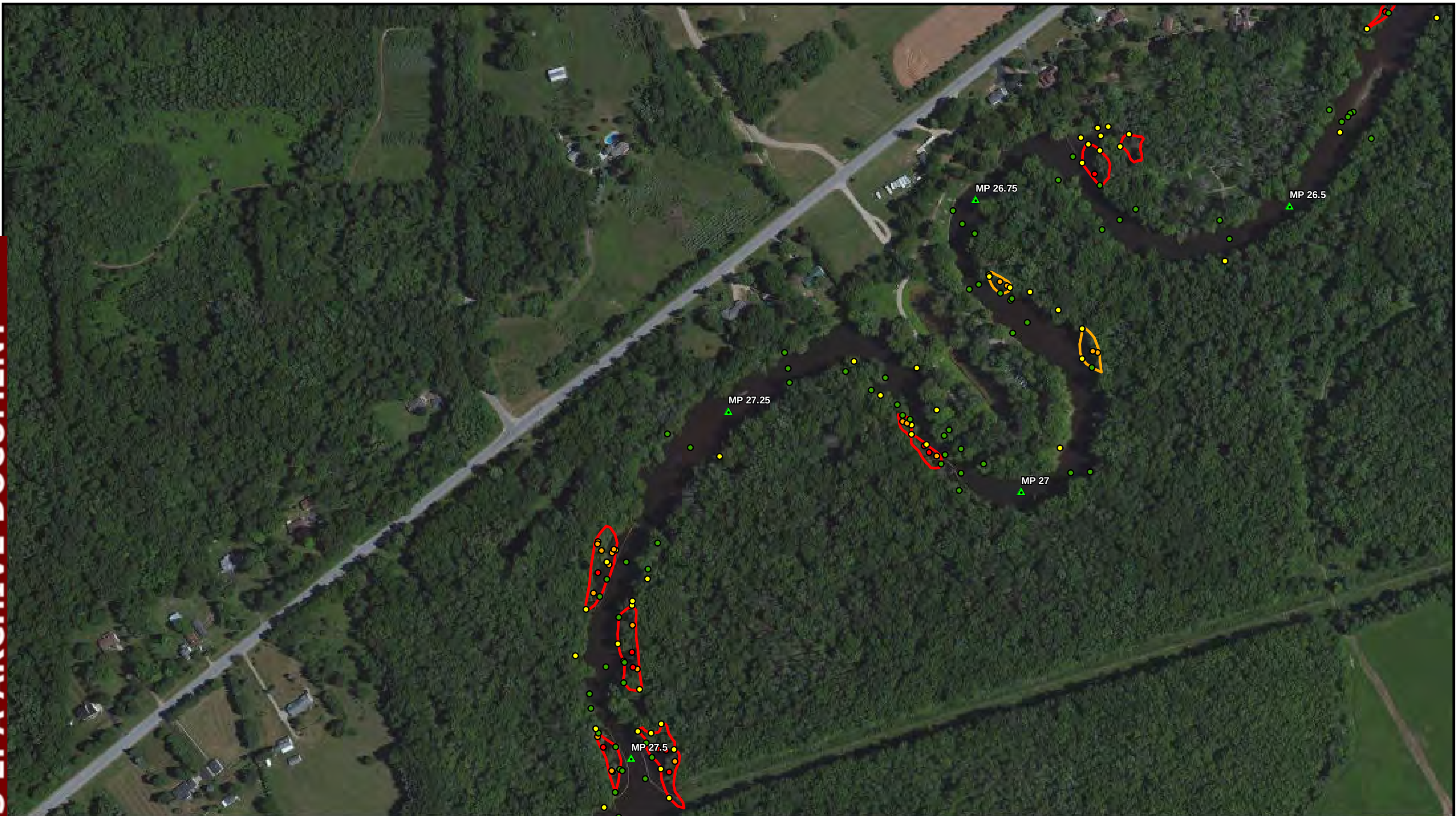


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AND 2011 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012**



Spring 2011 Poling Locations
Sub Oil Category
● Heavy
● Moderate
● Light
● None

Spring 2011 Delineation Boundaries
□ Heavy
□ Moderate

★ Approximate Release Site
▲ River Quarter Mile Marker

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300
Feet



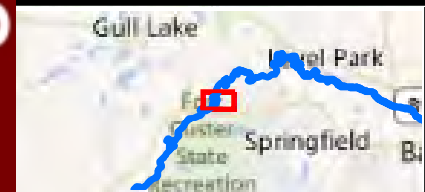
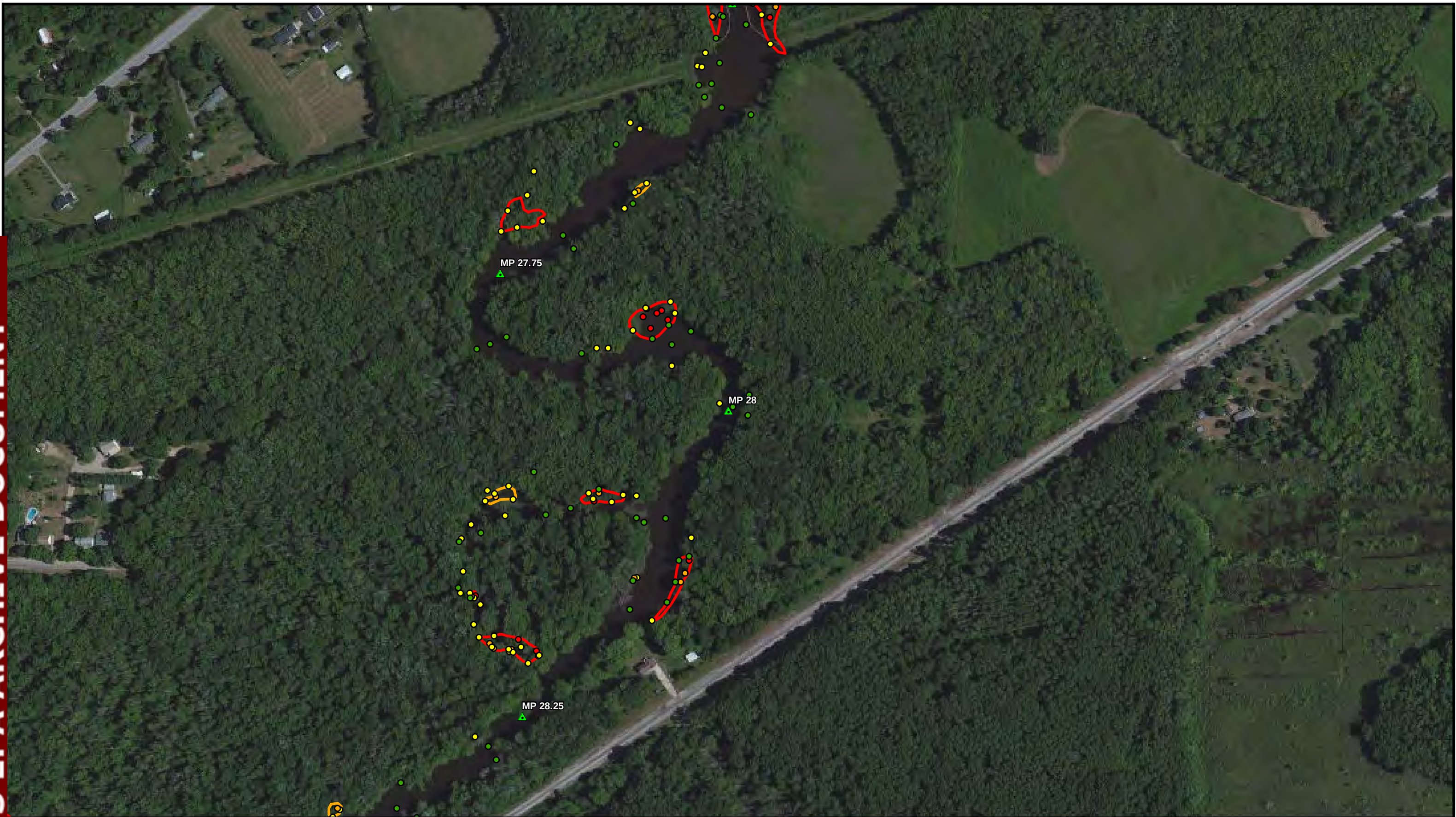
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AND 2011 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012**

Map 34 of 49



Spring 2011 Poling Locations
Sub Oil Category
● Heavy
● Moderate
● Light
● None

Spring 2011 Delineation Boundaries
□ Heavy
□ Moderate

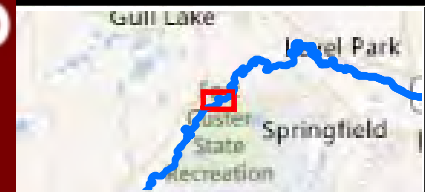
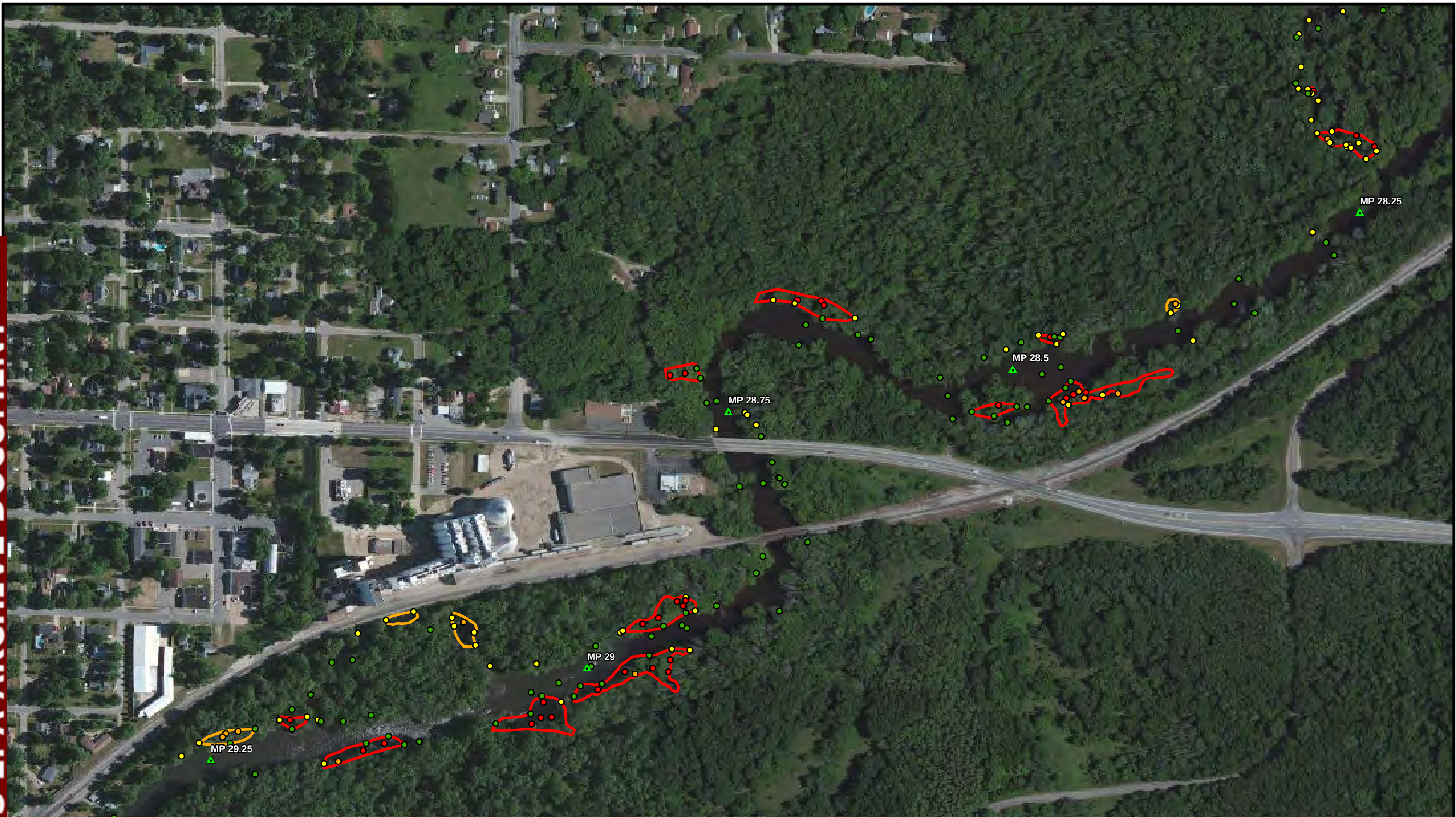
★ Approximate Release Site
▲ River Quarter Mile Marker

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300 Feet

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CREATED: SEPTEMBER 2012
Map 35 of 49



Spring 2011 Poling Locations	
● Heavy	● Spring 2011 Delineation Boundaries
● Moderate	■ Heavy
● Light	■ Moderate
● None	

★ Approximate Release Site
▲ River Quarter Mile Marker

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300
Feet



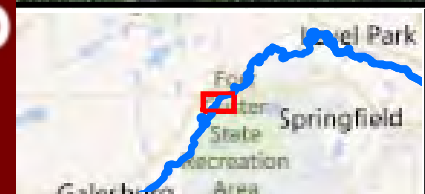
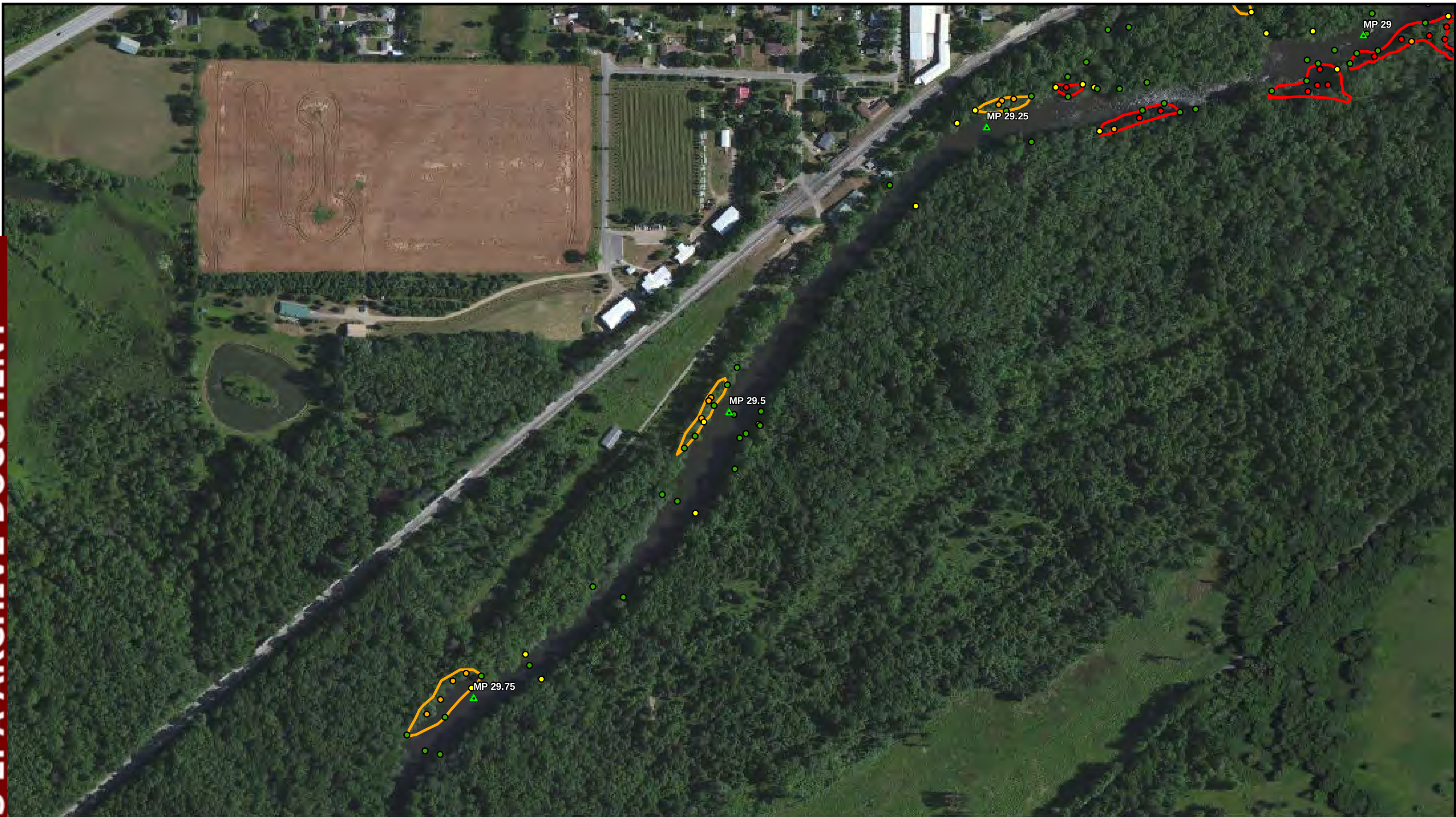
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MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012**

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Spring 2011 Poling Locations
Sub Oil Category Spring 2011 Delineation Boundaries

● Heavy	■ Heavy
● Moderate	■ Moderate
● Light	
● None	

★ Approximate Release Site
▲ River Quarter Mile Marker

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300



Feet



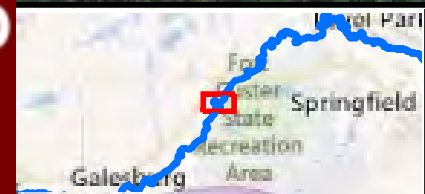
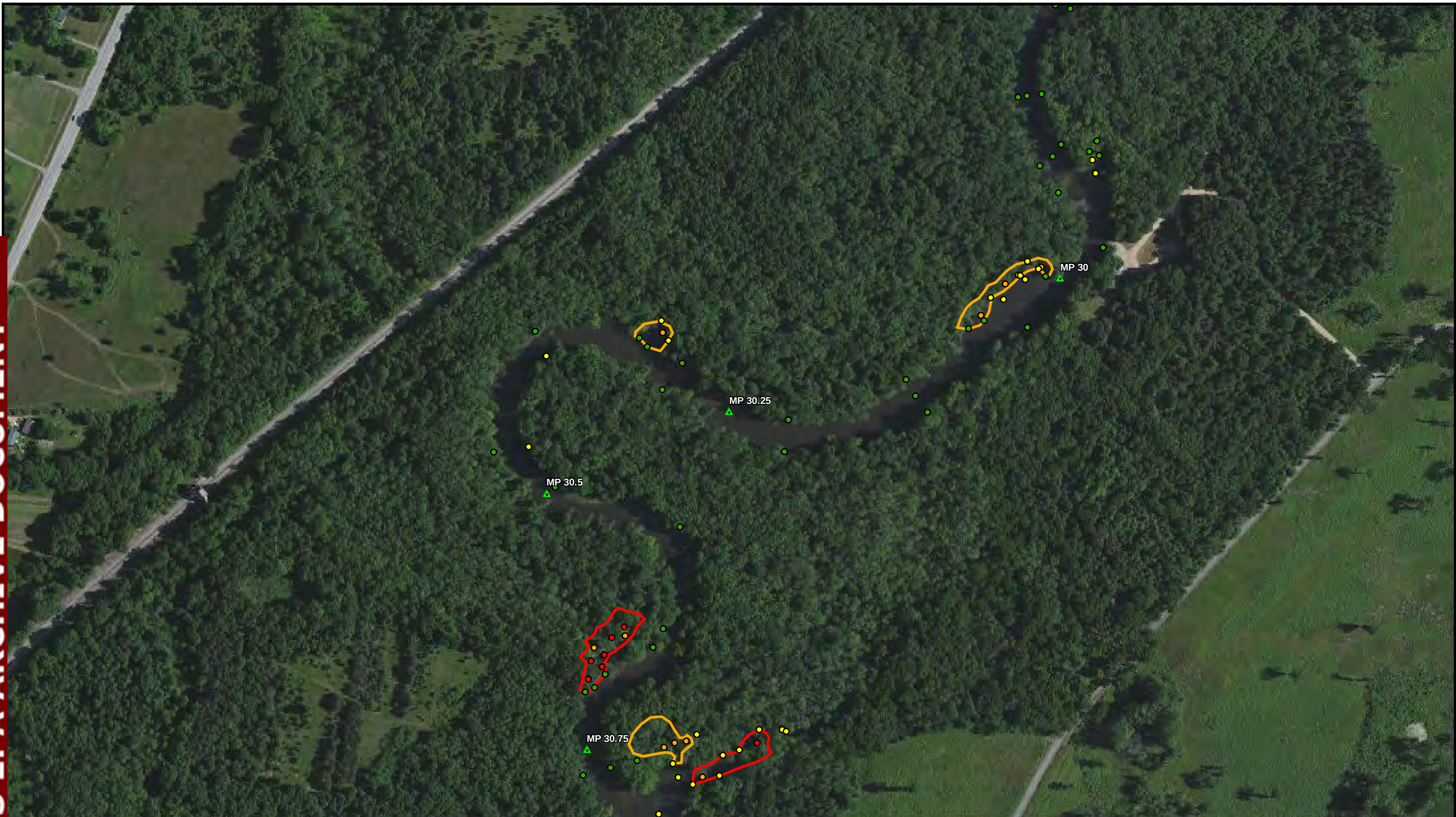
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AND 2011 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012**

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Spring 2011 Poling Locations	
Sub Oil Category	Spring 2011 Delineation Boundaries
● Heavy	■ Heavy
● Moderate	■ Moderate
● Light	
● None	

★ Approximate Release Site
▲ River Quarter Mile Marker

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300
Feet

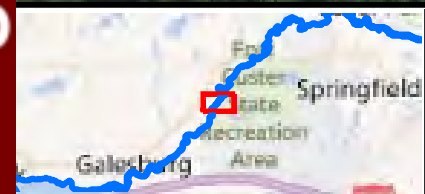
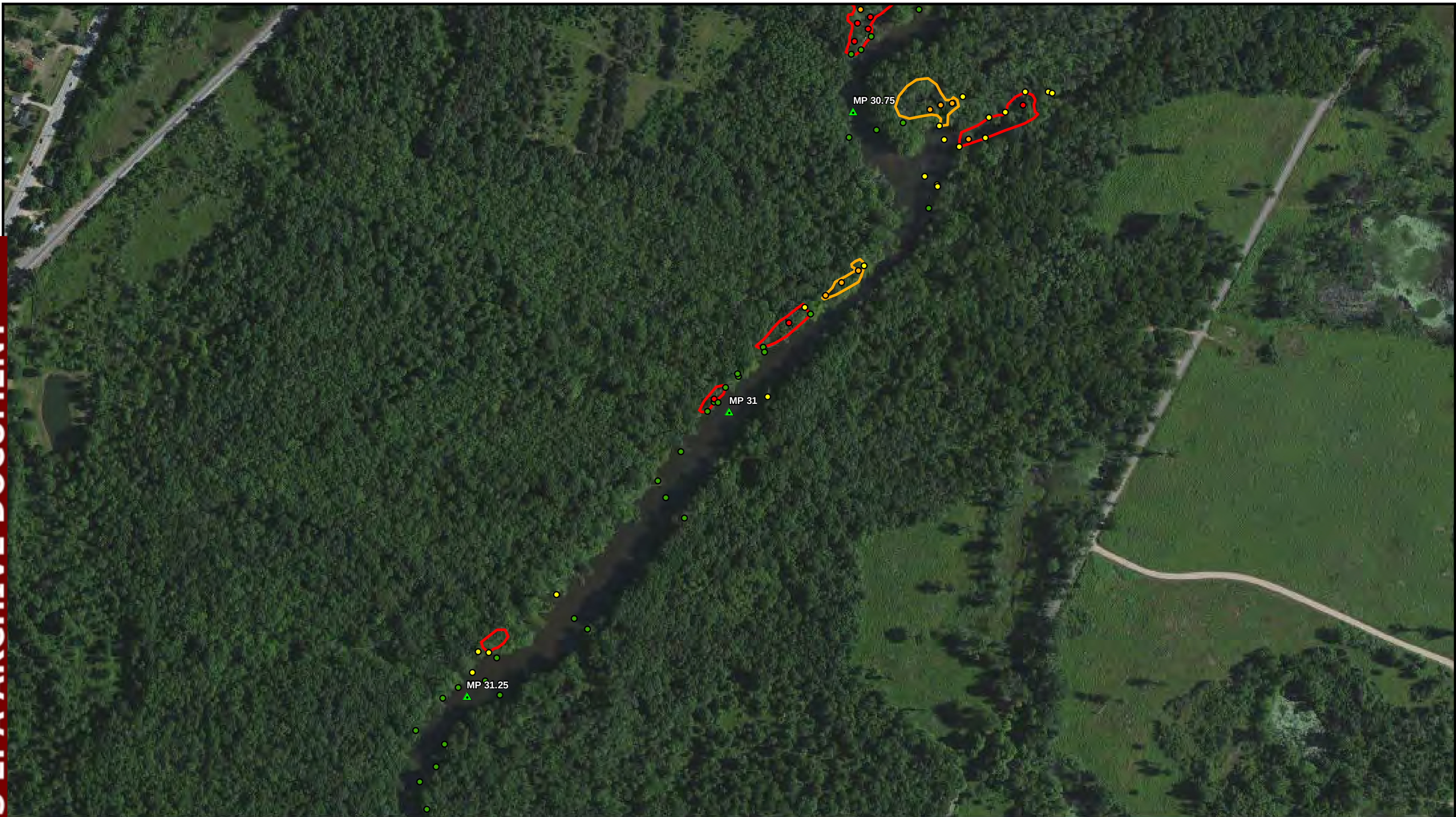


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AND 2011 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012**



Spring 2011 Poling Locations
Sub Oil Category
● Heavy
● Moderate
● Light
● None

Spring 2011 Delineation Boundaries
■ Heavy
■ Moderate

★ Approximate Release Site
▲ River Quarter Mile Marker

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300
Feet

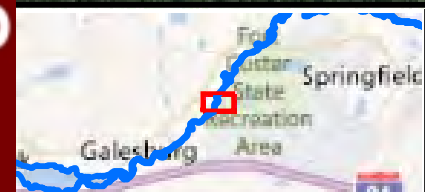


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AND 2011 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012**



Spring 2011 Poling Locations
Sub Oil Category Spring 2011
Delineation Boundaries

● Heavy	■ Heavy
● Moderate	■ Moderate
● Light	
● None	

★ Approximate Release Site
▲ River Quarter Mile Marker

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300



Feet



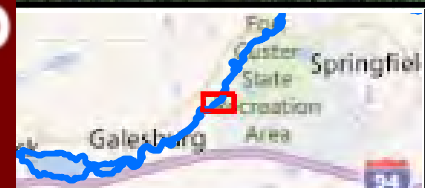
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AND 2011 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012**

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Spring 2011 Poling Locations		Approximate Release Site	River Quarter Mile Marker
Sub Oil Category	Spring 2011 Delineation Boundaries		
● Heavy	■ Heavy	★	▲
● Moderate	■ Moderate		
● Light			
● None			

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300



Feet



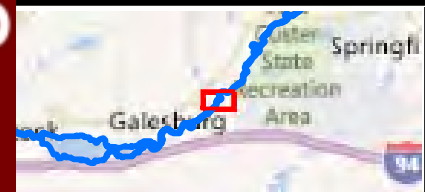
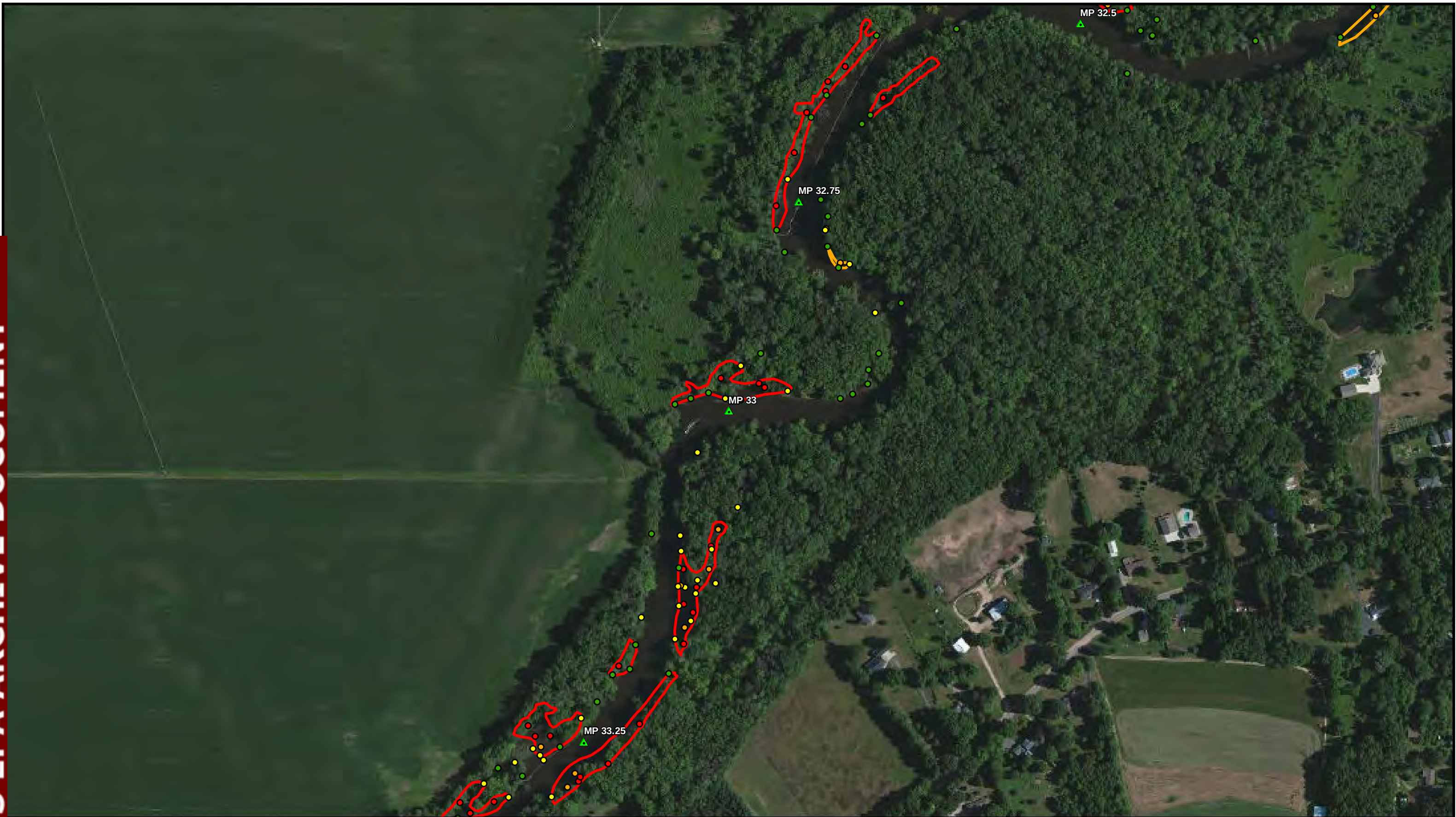
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AND 2011 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012

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Spring 2011 Poling Locations
Sub Oil Category
● Heavy
● Moderate
● Light
● None

Spring 2011 Delineation Boundaries
Heavy
Moderate

★ Approximate Release Site
▲ River Quarter Mile Marker

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300
Feet



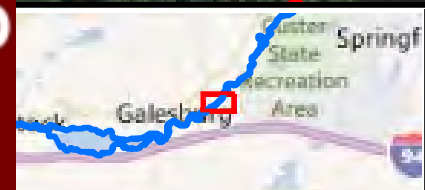
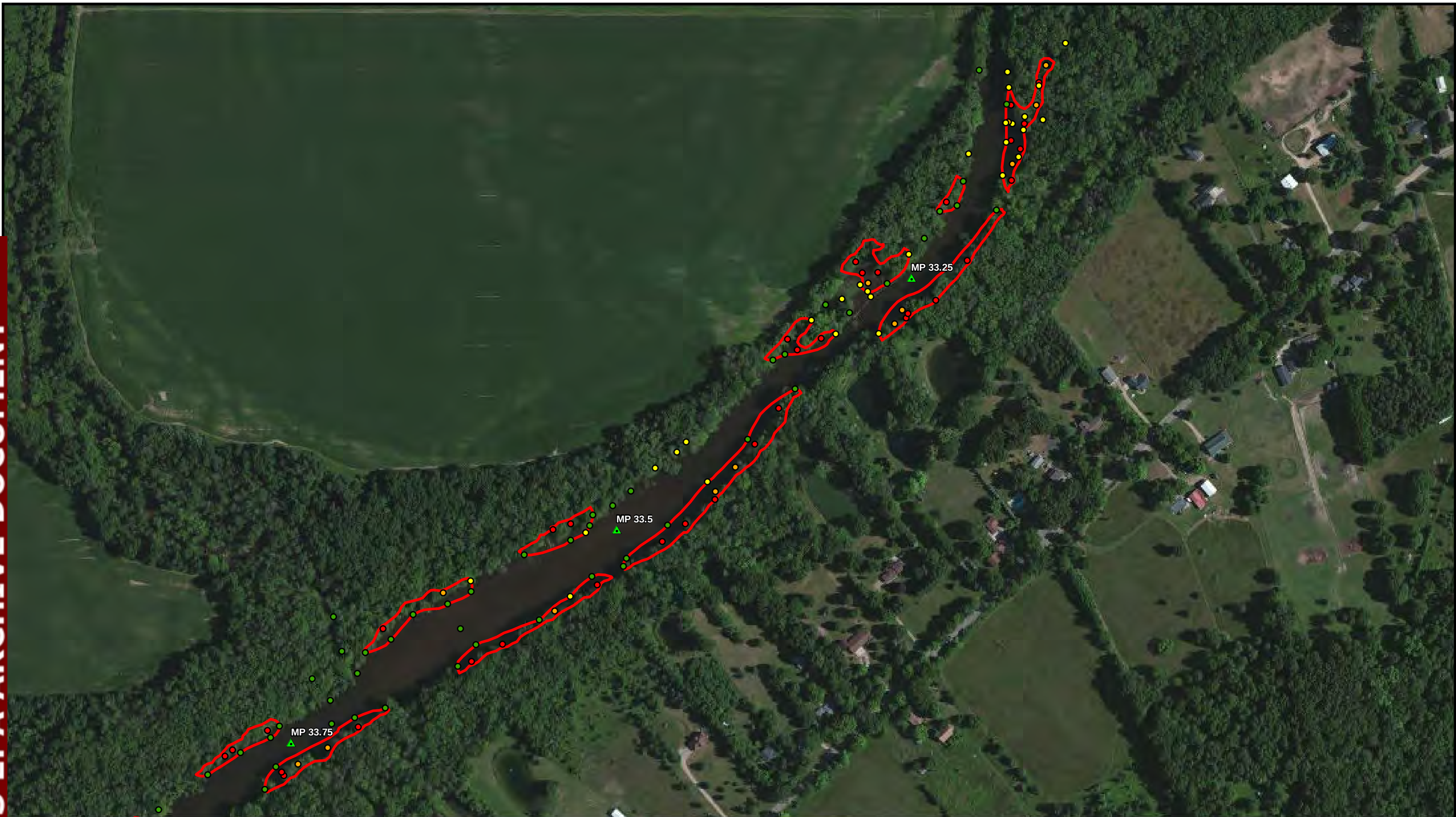
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AND 2011 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012**

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Spring 2011 Poling Locations	
Sub Oil Category	Spring 2011 Delineation Boundaries
● Heavy	■ Heavy
● Moderate	■ Moderate
● Light	
● None	

★ Approximate Release Site
▲ River Quarter Mile Marker

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300
Feet

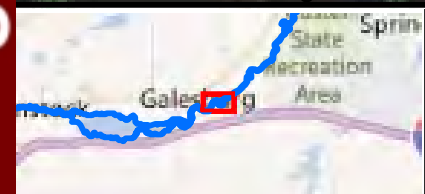
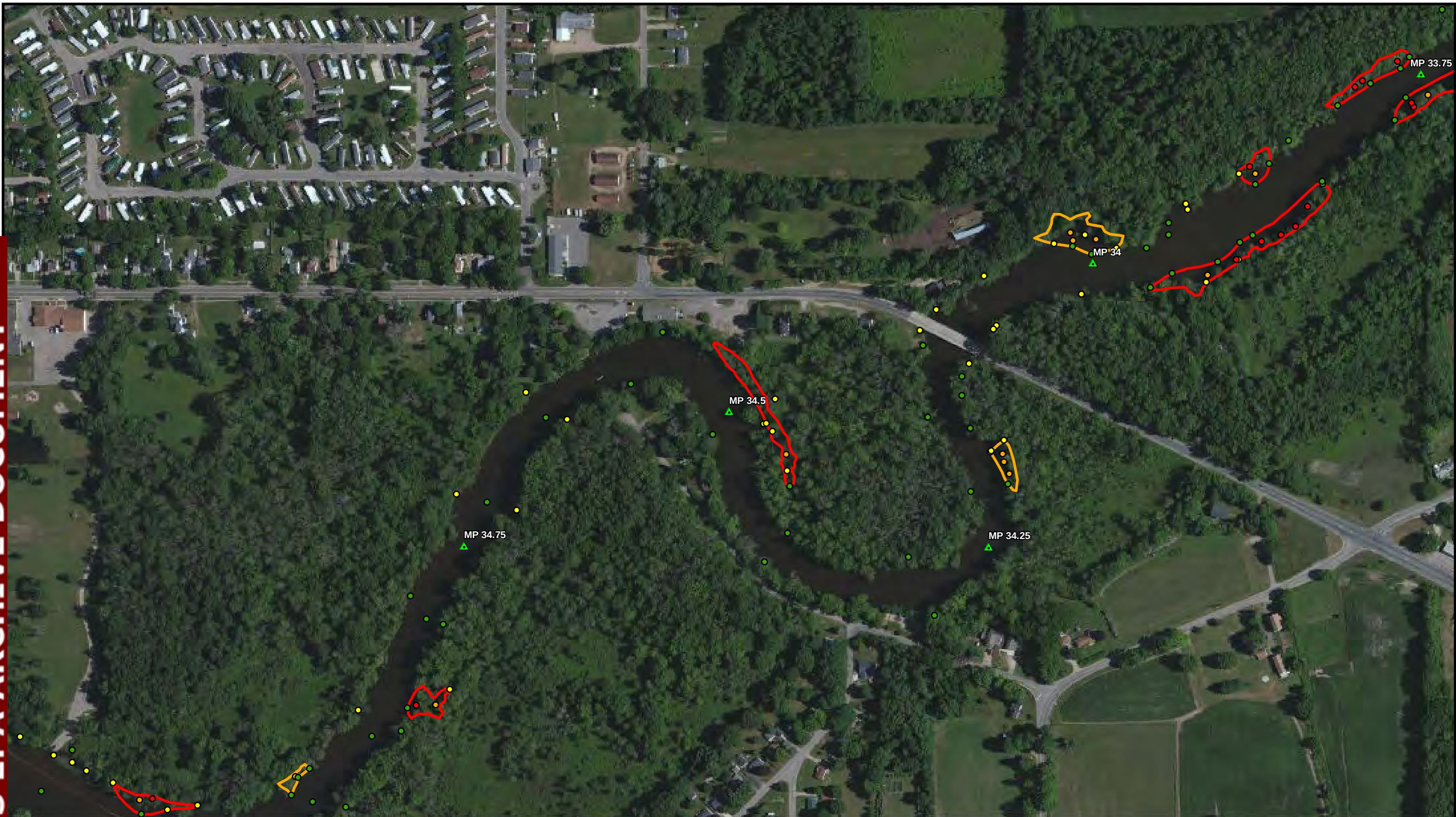


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AND 2011 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012



Spring 2011 Poling Locations	
Sub Oil Category	Spring 2011 Delineation Boundaries
● Heavy	■ Heavy
● Moderate	■ Moderate
● Light	
● None	

★ Approximate Release Site
▲ River Quarter Mile Marker

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300



Feet



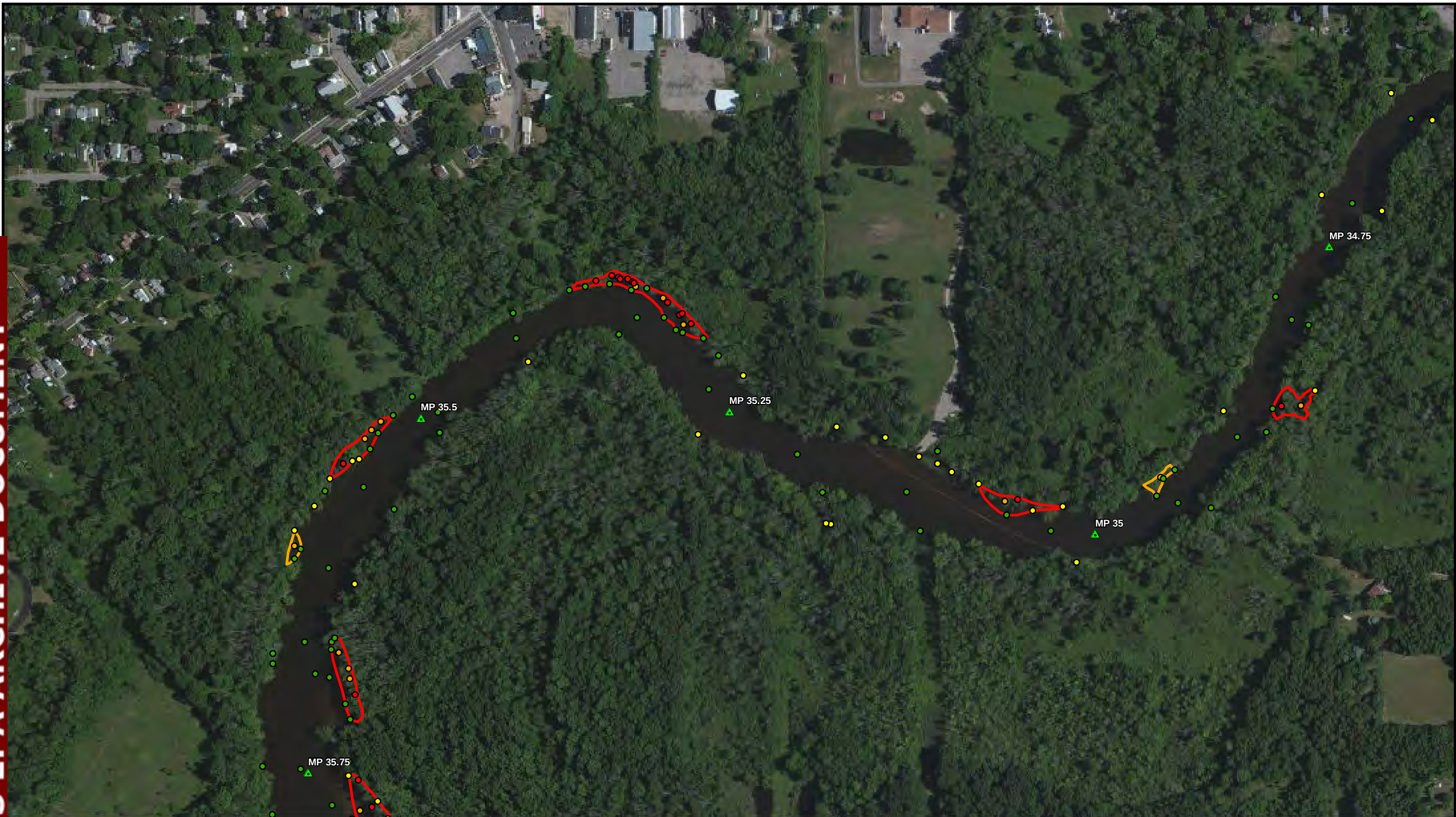
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KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012

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Spring 2011 Poling Locations	
Sub Oil Category	Spring 2011 Delineation Boundaries
● Heavy	■ Heavy
● Moderate	■ Moderate
● Light	
● None	

★ Approximate Release Site
▲ River Quarter Mile Marker

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300
Feet

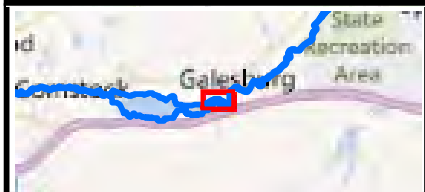
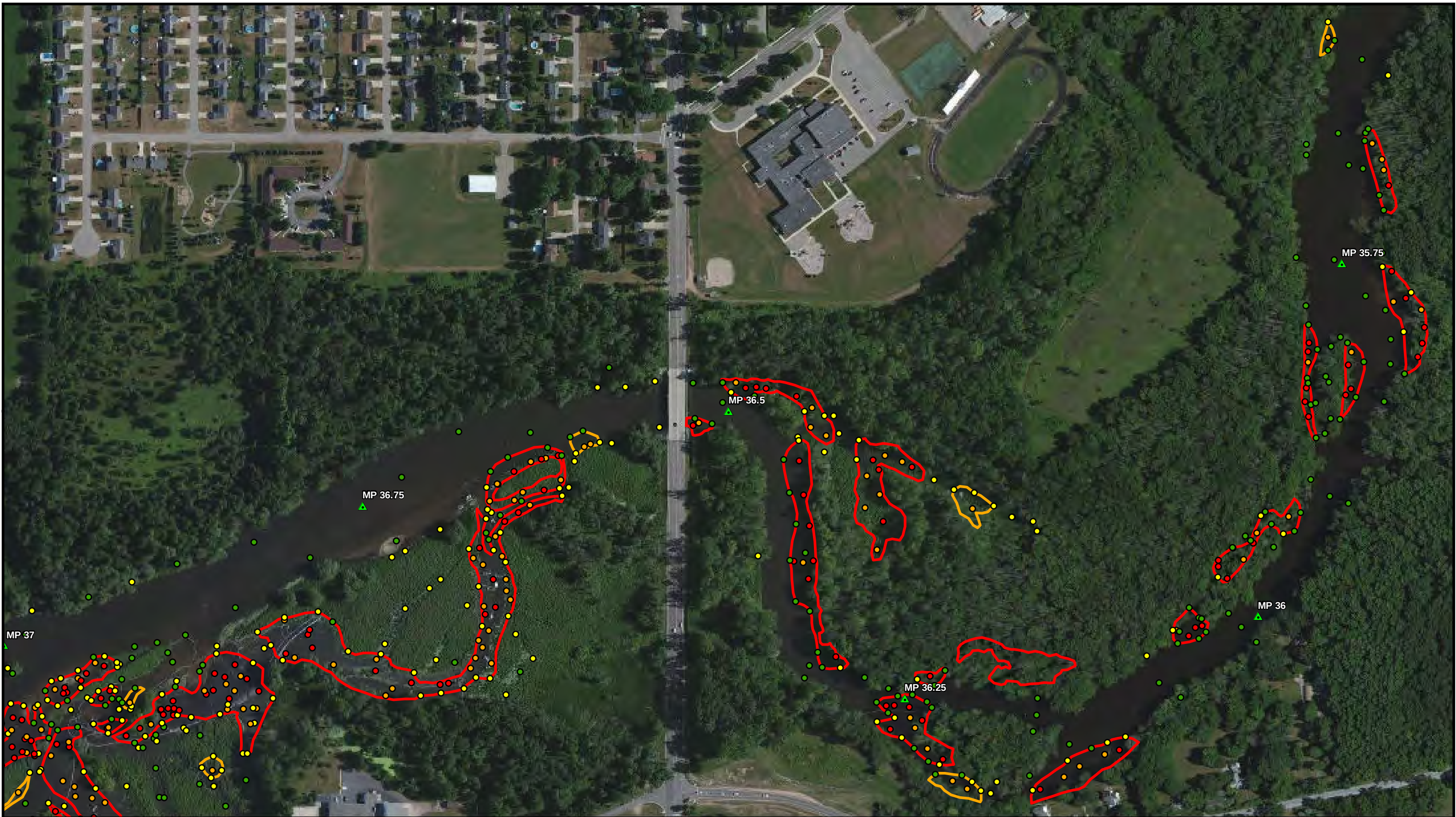


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MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012**



Spring 2011 Poling Locations
Sub Oil Category
● Heavy
● Moderate
● Light
● None

Spring 2011 Delineation Boundaries
■ Heavy
■ Moderate

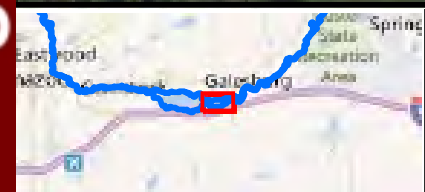
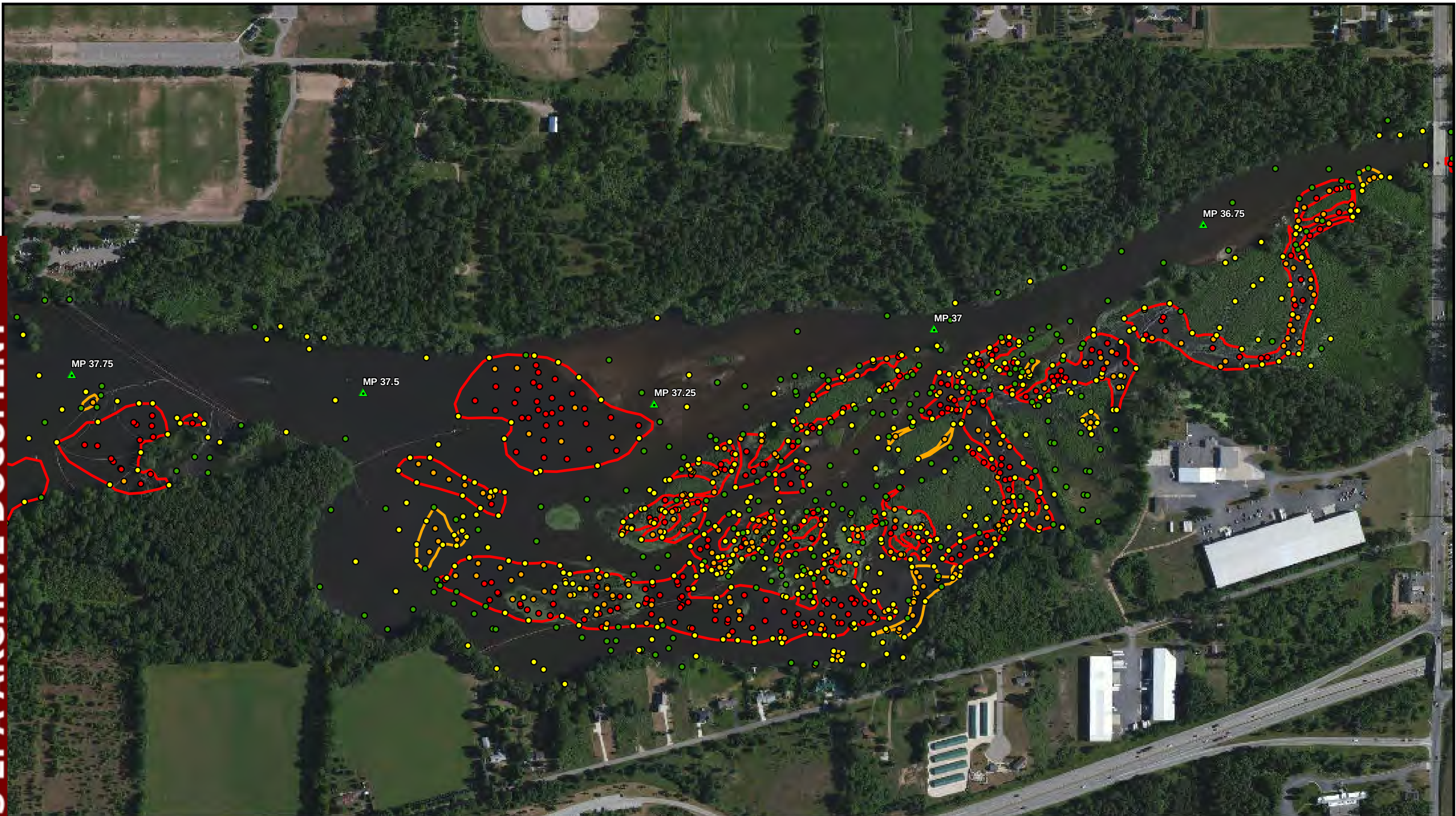
★ Approximate Release Site
▲ River Quarter Mile Marker

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300 Feet

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Okemos, MI

SPRING 2011 POLING REASSESSMENT LOCATIONS AND 2011 DELINEATION BOUNDARIES MARSHALL, MI PIPELINE RELEASE KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012
Map 46 of 49



Spring 2011 Poling Locations
Sub Oil Category Spring 2011 Delineation Boundaries

● Heavy	■ Heavy
● Moderate	■ Moderate
● Light	
● None	

★ Approximate Release Site
▲ River Quarter Mile Marker

**FOR OFFICIAL
USE ONLY**

400



Feet



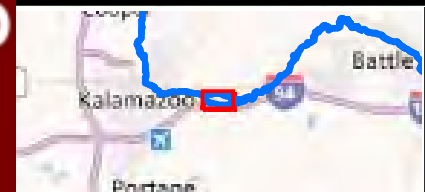
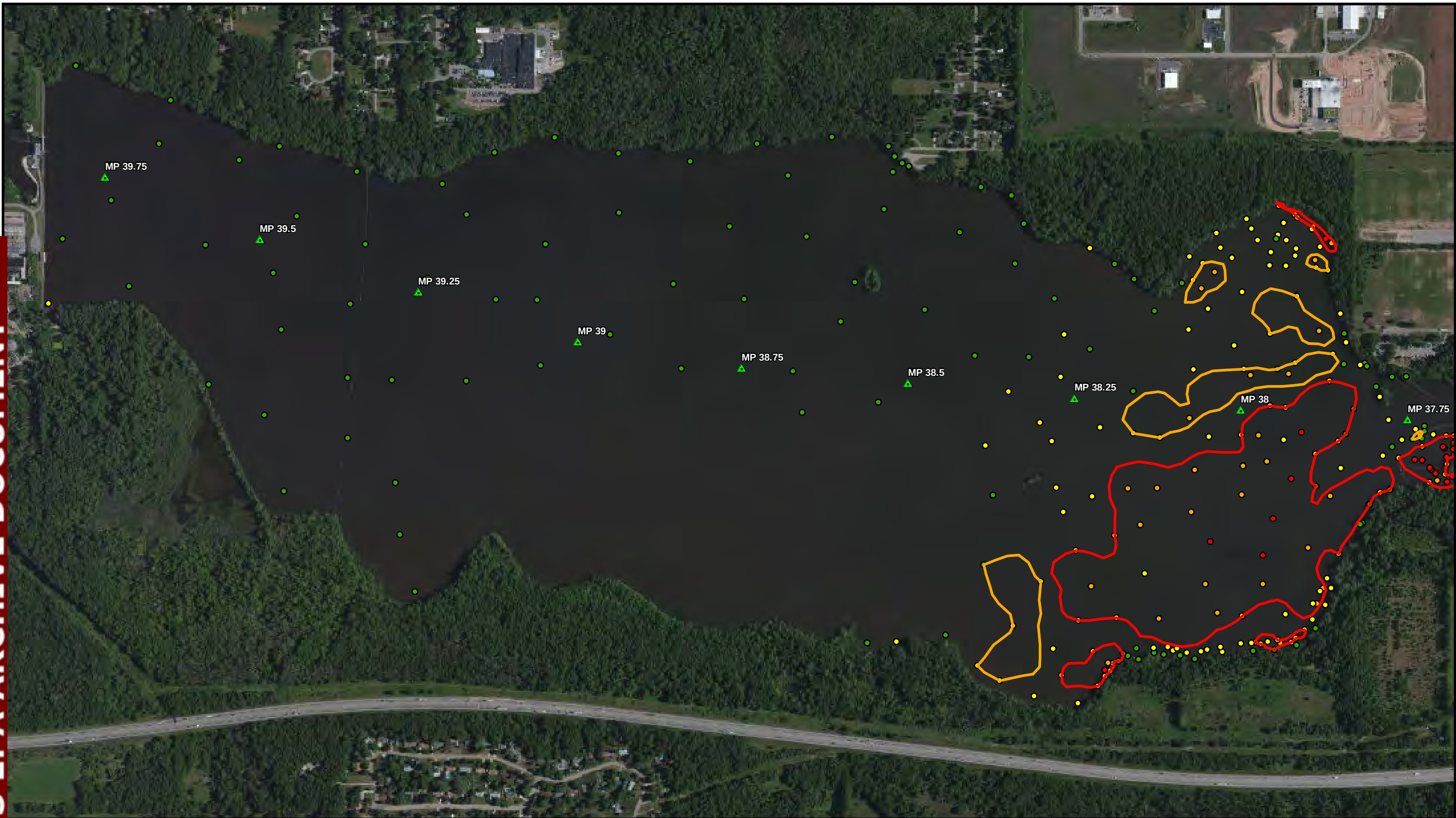
Prepared for:
U.S. EPA REGION V
Contract No.: EP-S5-06-04
TDD: S05-0005-1007-030
DCN: 1154-4D-AHMS



Prepared by:
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**SPRING 2011 POLING REASSESSMENT LOCATIONS
AND 2011 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012**

Map 47 of 49



Spring 2011 Poling Locations
Sub Oil Category
● Heavy
● Moderate
● Light
● None

Spring 2011 Delineation Boundaries
■ Heavy
■ Moderate

★ Approximate Release Site
▲ River Quarter Mile Marker

**FOR OFFICIAL
USE ONLY**

700
Feet



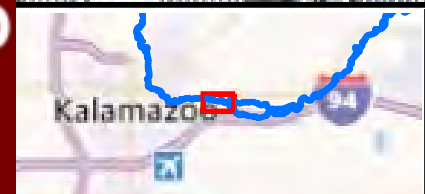
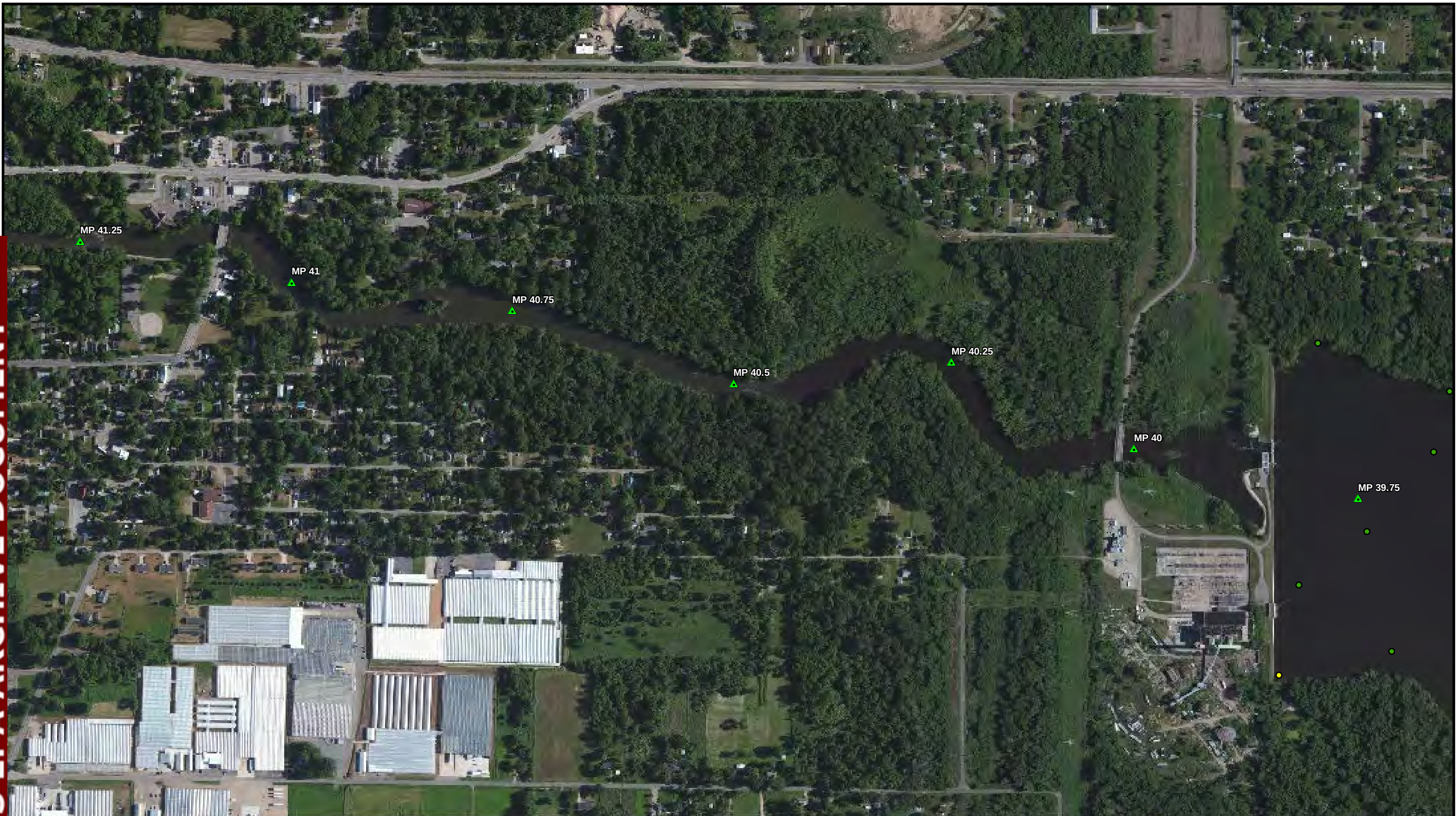
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AND 2011 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: SEPTEMBER 2012**

Map 48 of 49



Spring 2011 Poling Locations	
● Heavy	● Spring 2011 Delineation Boundaries
● Moderate	■ Heavy
● Light	■ Moderate
● None	

★ Approximate Release Site
▲ River Quarter Mile Marker

**FOR OFFICIAL
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500
Feet



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