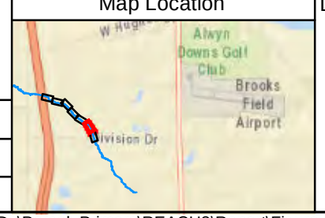
ENBRIDGE

Drawn:	NS	10/2/2014
Approved:	PL	10/2/2014
Project #:	60313732	

Map Location



Legend

2010 U.S. EPA Clearance Areas

A - Excavated to Visual Extent
B - Excavated to Water
C - Excavated to Confining Layer
Special - Does not Meet A, B, or C Criteria

2010 Post-Excavation Assessment Soil Sample

2010 Mat Road Soil Sample

2011-2012 Excavation

Reach 3 Spill Area

Parcel

Quarter Mile Grid Segments

Pipeline

SETC0200C008 Sample Location With Analytical Exceedance

N

0 15 30 60

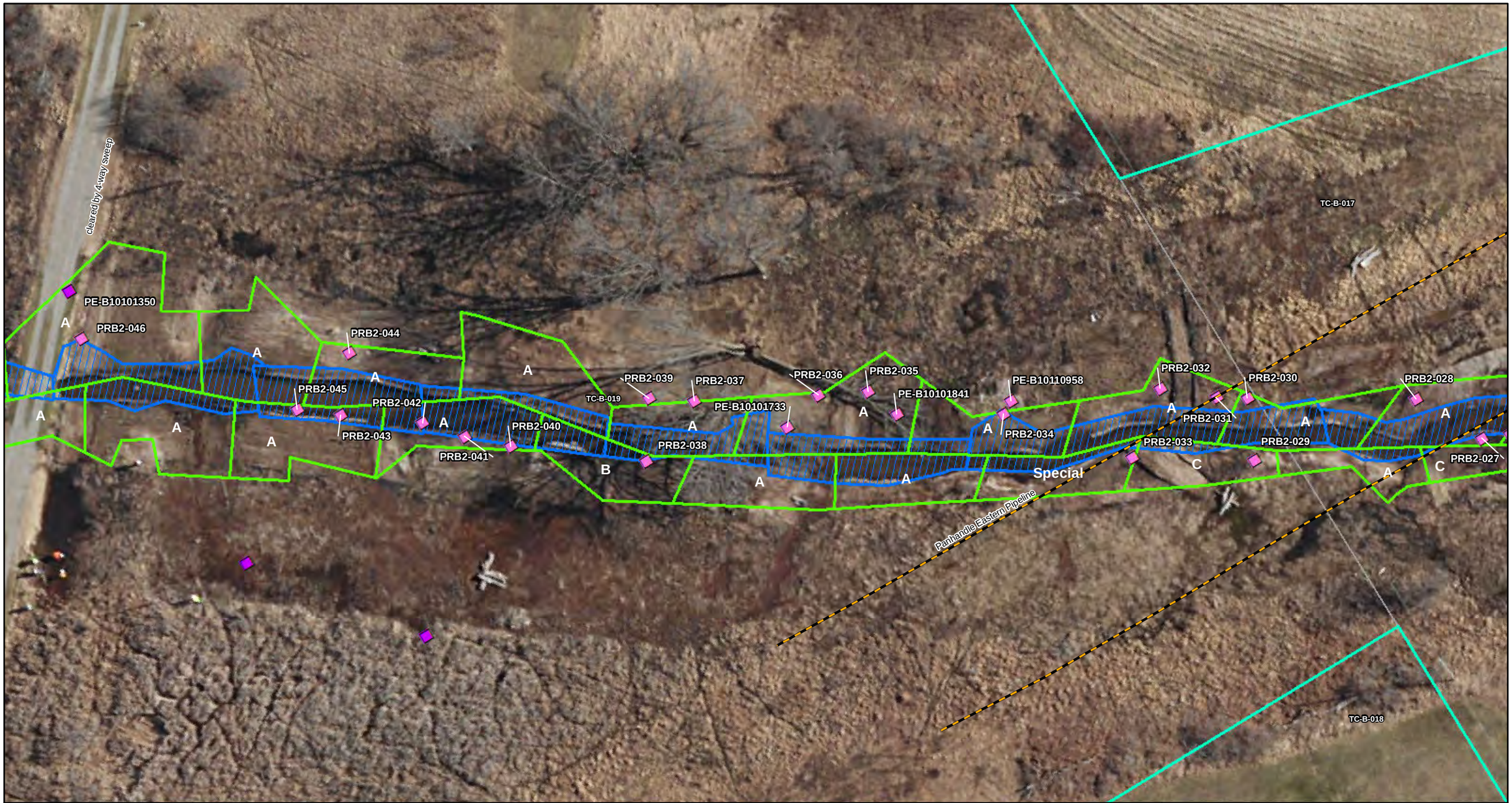
Scale in Feet

FIGURE 6
REACH 3
2010 U.S. EPA CLEARANCE AREAS AND
2010 POST-EXCAVATION ASSESSMENT SOIL SAMPLES
SHEET 3 OF 8

ENBRIDGE LINE 6B MP 608
MARSHALL, MI PIPELINE RELEASE
ENBRIDGE ENERGY, LIMITED PARTNERSHIP

Z:\Work\GIS\Kalamazoo_River_RI\MXDs\Parcel_Primers\REACH3\Report\Figure_06_Reach_3_EPA_Clearance_Areas_Sheet2-7.mxd

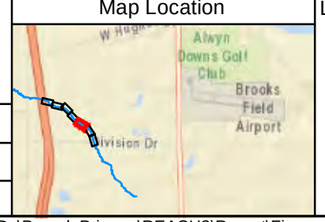
Aerial Photography Date: April 2011



ENBRIDGE

Drawn:	NS	10/2/2014
Approved:	PL	10/2/2014
Project #:	60313732	

Map Location



Legend

2010 U.S. EPA Clearance Areas
- *A - Excavated to Visual Extent*
- *B - Excavated to Water*
- *C - Excavated to Confining Layer*
- *Special - Does not Meet A, B, or C Criteria*

2010 Post-Excavation Assessment Soil Sample

2010 Mat Road Soil Sample

2011-2012 Excavation

Reach 3 Spill Area

Parcel

Quarter Mile Grid Segments

Pipeline

SETC0200C008 Sample Location With Analytical Exceedance

N

0 15 30 60

Scale in Feet

FIGURE 6
REACH 3
2010 U.S. EPA CLEARANCE AREAS AND
2010 POST-EXCAVATION ASSESSMENT SOIL SAMPLES
SHEET 4 OF 8

ENBRIDGE LINE 6B MP 608
MARSHALL, MI PIPELINE RELEASE
ENBRIDGE ENERGY, LIMITED PARTNERSHIP

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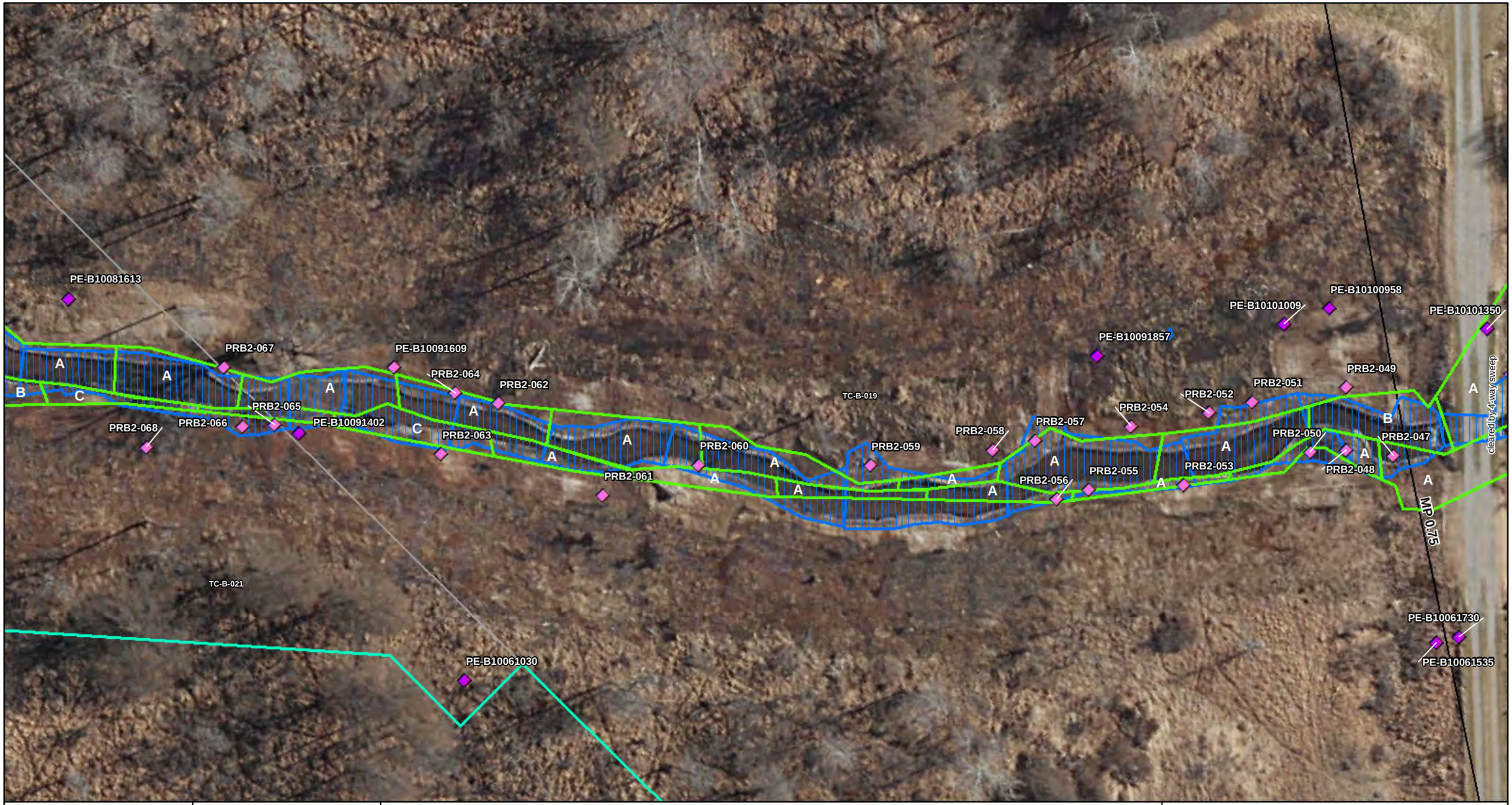
Aerial Photography Date: April 2011



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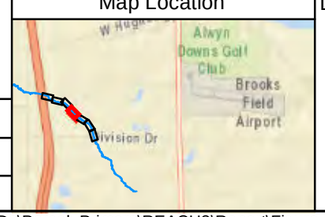
Drawn:	NS	10/2/2014
Approved:	PL	10/2/2014
Project #:	60313732	

Map Location



Legend

2010 U.S. EPA Clearance Areas

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2010 Mat Road Soil Sample

2011-2012 Excavation

Reach 3 Spill Area

Parcel

Quarter Mile Grid Segments

Pipeline

SETC0200C008 Sample Location With Analytical Exceedance

N

0 15 30 60

Scale in Feet

FIGURE 6
REACH 3
2010 U.S. EPA CLEARANCE AREAS AND
2010 POST-EXCAVATION ASSESSMENT SOIL SAMPLES
SHEET 5 OF 8

ENBRIDGE LINE 6B MP 608
MARSHALL, MI PIPELINE RELEASE
ENBRIDGE ENERGY, LIMITED PARTNERSHIP

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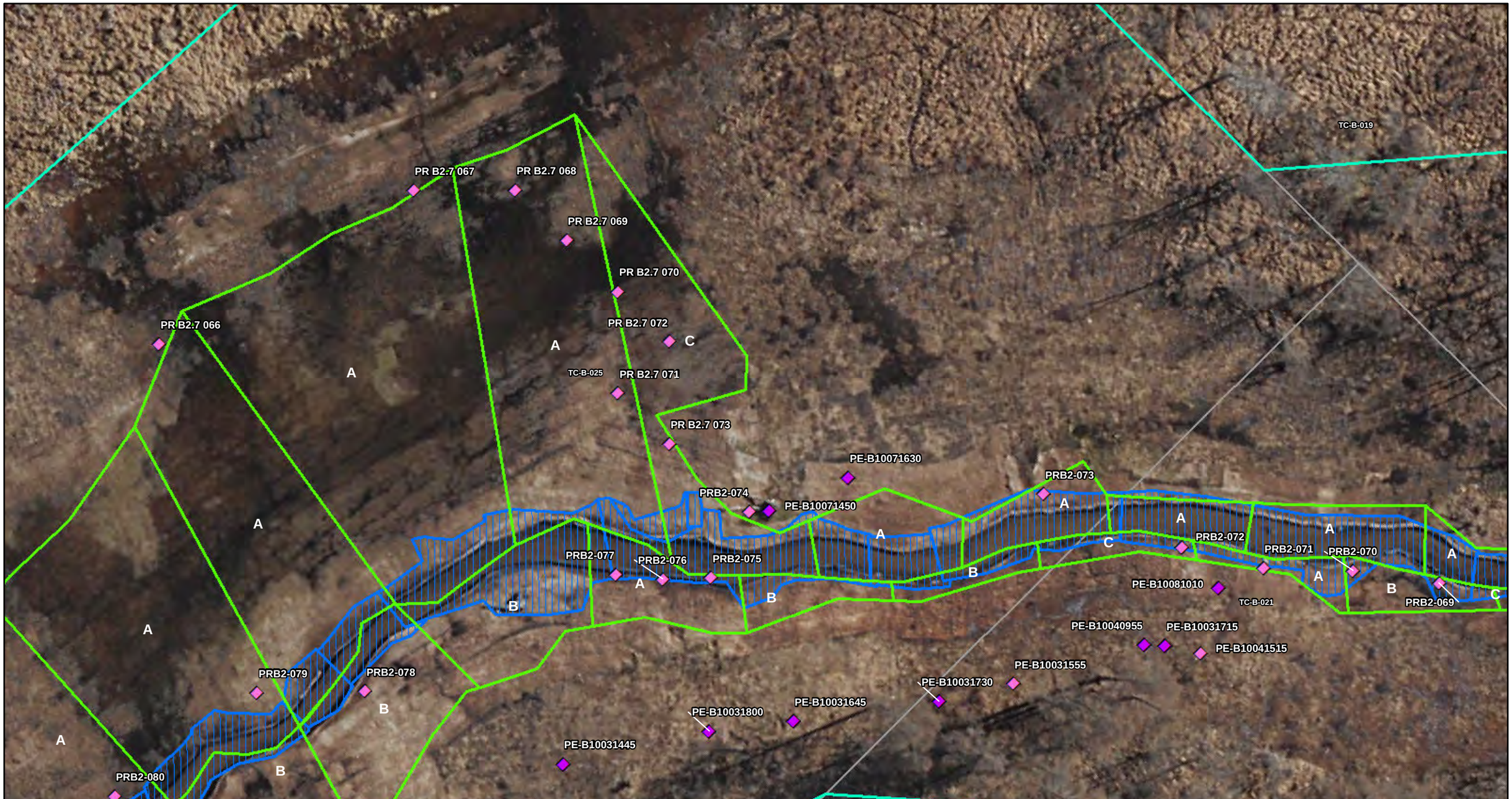
Aerial Photography Date: April 2011



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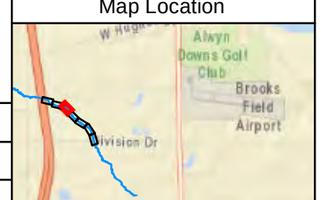
Drawn:	NS	10/2/2014
Approved:	PL	10/2/2014
Project #:	60313732	

Map Location



Legend

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2010 Mat Road Soil Sample

2011-2012 Excavation

Reach 3 Spill Area

Parcel

Quarter Mile Grid Segments

Pipeline

SETC0200C008 Sample Location With Analytical Exceedance

N

0 15 30 60

Scale in Feet

FIGURE 6
REACH 3
2010 U.S. EPA CLEARANCE AREAS AND
2010 POST-EXCAVATION ASSESSMENT SOIL SAMPLES
SHEET 6 OF 8

ENBRIDGE LINE 6B MP 608
MARSHALL, MI PIPELINE RELEASE
ENBRIDGE ENERGY, LIMITED PARTNERSHIP

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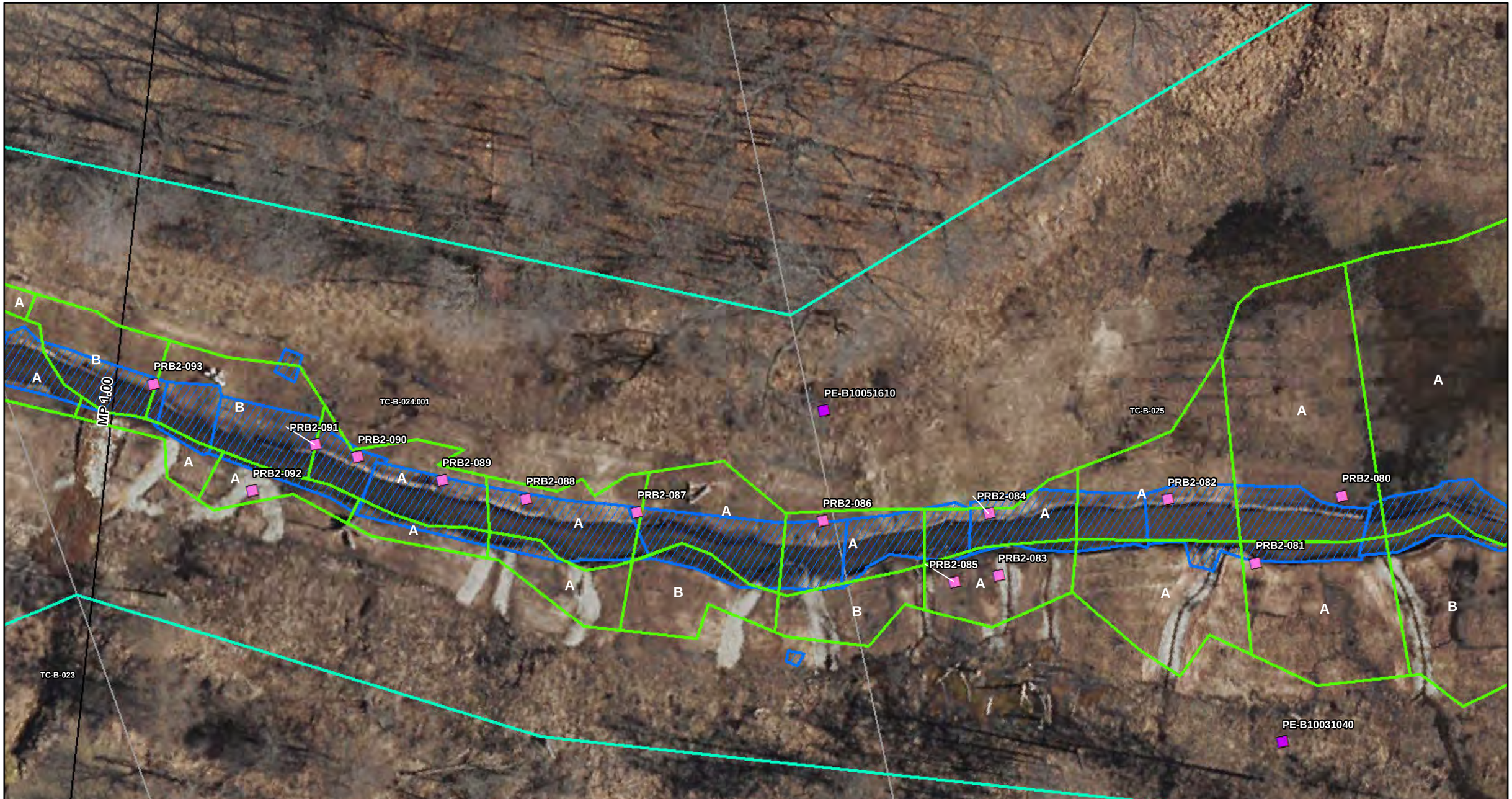
Aerial Photography Date: April 2011



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Drawn:	NS	10/2/2014
Approved:	PL	10/2/2014
Project #:	60313732	

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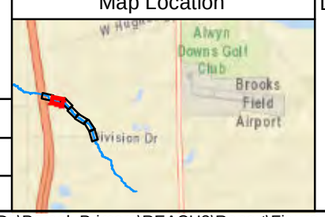

Legend

2010 U.S. EPA Clearance Areas

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2010 Post-Excavation Assessment Soil Sample

2010 Mat Road Soil Sample

2011-2012 Excavation

Reach 3 Spill Area

Parcel

Quarter Mile Grid Segments

Pipeline

SETC0200C008 Sample Location With Analytical Exceedance

N

0 15 30 60

Scale in Feet

FIGURE 6
REACH 3
2010 U.S. EPA CLEARANCE AREAS AND
2010 POST-EXCAVATION ASSESSMENT SOIL SAMPLES
SHEET 7 OF 8

ENBRIDGE LINE 6B MP 608
MARSHALL, MI PIPELINE RELEASE
ENBRIDGE ENERGY, LIMITED PARTNERSHIP

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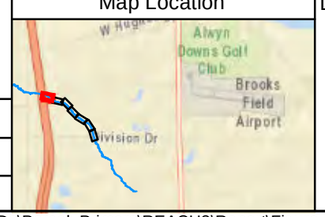
Aerial Photography Date: April 2011

ENBRIDGE

Drawn:	NS	10/2/2014
Approved:	PL	10/2/2014
Project #:	60313732	

Map Location



Legend

- 2010 U.S. EPA Clearance Areas
  - *A - Excavated to Visual Extent*
  - *B - Excavated to Water*
  - *C - Excavated to Confining Layer*
  - *Special - Does not Meet A, B, or C Criteria*
- 2010 Post-Excavation Assessment Soil Sample
- 2010 Mat Road Soil Sample
- 2011-2012 Excavation
- Reach 3 Spill Area
- Parcel
- Quarter Mile Grid Segments
- Pipeline
- SETC0200C008 Sample Location With Analytical Exceedance

N

0 15 30 60

Scale in Feet

FIGURE 6
REACH 3
2010 U.S. EPA CLEARANCE AREAS AND
2010 POST-EXCAVATION ASSESSMENT SOIL SAMPLES
SHEET 8 OF 8

ENBRIDGE LINE 6B MP 608
MARSHALL, MI PIPELINE RELEASE
ENBRIDGE ENERGY, LIMITED PARTNERSHIP

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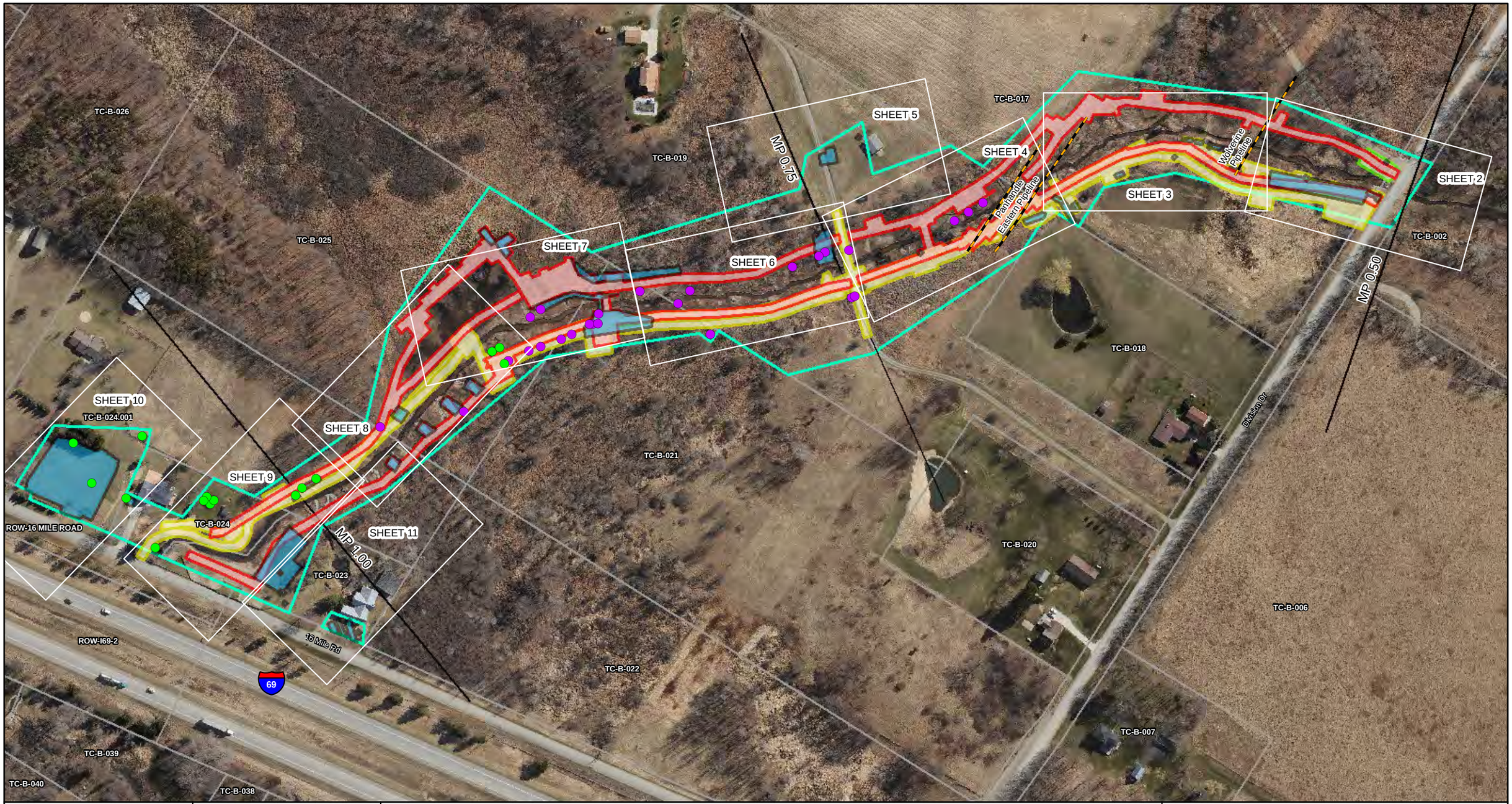
Aerial Photography Date: April 2011



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Drawn:	EN	9/22/2014
Approved:	PL	9/22/2014
Project #:	60313732	

Map Location

Legend

- Mat Road (2010)
- Parking Area
- Mat Road (2011)
- Decommisioning Activities
- 2010 Mat Road Soil Sample
- Decommissioning Sample
- Reach 3 Spill Area
- Parcel
- Quarter Mile Grid Segments
- Pipeline

N

0 95 190 380

Scale in Feet

FIGURE 7
REACH 3
DECOMMISSIONING/AUXILIARY LOCATIONS
SHEET 1 OF 11

ENBRIDGE LINE 6B MP 608
MARSHALL, MI PIPELINE RELEASE
ENBRIDGE ENERGY, LIMITED PARTNERSHIP

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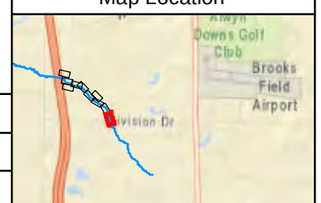
Aerial Photography Date: April 2011

ENBRIDGE

Drawn:	NS	9/22/2014
Approved:	PL	9/22/2014
Project #:	60313732	

Map Location



Legend

- Mat Road (2010)
- Parking Area
- Mat Road (2011-2012)
- Decommisioning Activities
- 2010 Mat Road Soil Sample
- Decommissioning Sample
- Reach 3 Spill Area
- Parcel
- Quarter Mile Grid Segments
- Pipeline

N

0 15 30 60
Scale in Feet

FIGURE 7
REACH 3
DECOMMISSIONING/AUXILIARY LOCATIONS
SHEET 2 OF 11

ENBRIDGE LINE 6B MP 608
MARSHALL, MI PIPELINE RELEASE
ENBRIDGE ENERGY, LIMITED PARTNERSHIP

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Aerial Photography Date: April 2011

ENBRIDGE

Drawn:	NS	9/22/2014
Approved:	PL	9/22/2014
Project #:	60313732	

Map Location

Legend

- Mat Road (2010)
- Parking Area
- Mat Road (2011-2012)
- Decommisioning Activities
- 2010 Mat Road Soil Sample
- Decommissioning Sample
- Reach 3 Spill Area
- Parcel
- Quarter Mile Grid Segments
- Pipeline

N

0 15 30 60
Scale in Feet

FIGURE 7
REACH 3
DECOMMISSIONING/AUXILIARY LOCATIONS
SHEET 3 OF 11

ENBRIDGE LINE 6B MP 608
MARSHALL, MI PIPELINE RELEASE
ENBRIDGE ENERGY, LIMITED PARTNERSHIP

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Aerial Photography Date: April 2011

ENBRIDGE

Drawn:	NS	9/22/2014
Approved:	PL	9/22/2014
Project #:	60313732	

Map Location

Legend

- Mat Road (2010)
- Parking Area
- Mat Road (2011-2012)
- Decommisioning Activities
- 2010 Mat Road Soil Sample
- Decommissioning Sample
- Reach 3 Spill Area
- Parcel
- Quarter Mile Grid Segments
- Pipeline

N

0 15 30 60
Scale in Feet

FIGURE 7
REACH 3
DECOMMISSIONING/AUXILIARY LOCATIONS
SHEET 4 OF 11

ENBRIDGE LINE 6B MP 608
MARSHALL, MI PIPELINE RELEASE
ENBRIDGE ENERGY, LIMITED PARTNERSHIP

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Aerial Photography Date: April 2011

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Approved:	PL	9/22/2014
Project #:	60313732	

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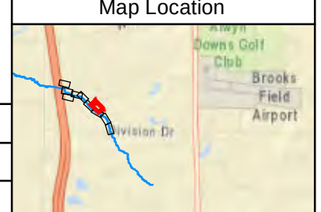

Legend

- Mat Road (2010)
- Parking Area
- Mat Road (2011-2012)
- Decommisioning Activities
- 2010 Mat Road Soil Sample
- Decommissioning Sample
- Reach 3 Spill Area
- Parcel
- Quarter Mile Grid Segments
- Pipeline

N

0 15 30 60
Scale in Feet

FIGURE 7
REACH 3
DECOMMISSIONING/AUXILIARY LOCATIONS
SHEET 5 OF 11

ENBRIDGE LINE 6B MP 608
MARSHALL, MI PIPELINE RELEASE
ENBRIDGE ENERGY, LIMITED PARTNERSHIP

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Aerial Photography Date: April 2011

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Drawn:	NS	9/22/2014
Approved:	PL	9/22/2014
Project #:	60313732	

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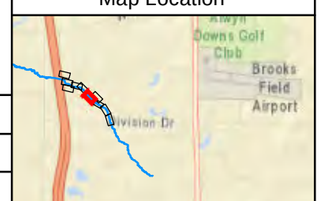


Legend

- Mat Road (2010)
- Parking Area
- Mat Road (2011-2012)
- Decommisioning Activities
- 2010 Mat Road Soil Sample
- Decommissioning Sample
- Reach 3 Spill Area
- Parcel
- Quarter Mile Grid Segments
- Pipeline

N

0 15 30 60
Scale in Feet

FIGURE 7
REACH 3
DECOMMISSIONING/AUXILIARY LOCATIONS
SHEET 6 OF 11

ENBRIDGE LINE 6B MP 608
MARSHALL, MI PIPELINE RELEASE
ENBRIDGE ENERGY, LIMITED PARTNERSHIP

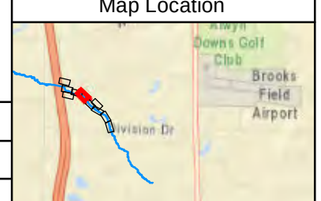
Z:\Work\GIS\Kalamazoo_River_RI\MXDs\Parcel_Primers\REACH3\Report\Figure_07_Reach_3_Auxiliary_Locations_Sheet2-11.mxd

Aerial Photography Date: April 2011

ENBRIDGE

Drawn:	NS	9/22/2014
Approved:	PL	9/22/2014
Project #:	60313732	

Map Location



Legend

- Mat Road (2010)
- Parking Area
- Mat Road (2011-2012)
- Decommisioning Activities
- 2010 Mat Road Soil Sample
- Decommissioning Sample
- Reach 3 Spill Area
- Parcel
- Quarter Mile Grid Segments
- Pipeline

N

0 15 30 60
Scale in Feet

FIGURE 7
REACH 3
DECOMMISSIONING/AUXILIARY LOCATIONS
SHEET 7 OF 11

ENBRIDGE LINE 6B MP 608
MARSHALL, MI PIPELINE RELEASE
ENBRIDGE ENERGY, LIMITED PARTNERSHIP

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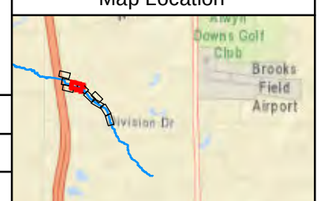
Aerial Photography Date: April 2011

ENBRIDGE

Drawn:	NS	9/22/2014
Approved:	PL	9/22/2014
Project #:	60313732	

Map Location



Legend

- Mat Road (2010)
- Parking Area
- Mat Road (2011-2012)
- Decommisioning Activities
- 2010 Mat Road Soil Sample
- Decommissioning Sample
- Reach 3 Spill Area
- Parcel
- Quarter Mile Grid Segments
- Pipeline

N

0 15 30 60

Scale in Feet

FIGURE 7
REACH 3
DECOMMISSIONING/AUXILIARY LOCATIONS
SHEET 8 OF 11

ENBRIDGE LINE 6B MP 608
MARSHALL, MI PIPELINE RELEASE
ENBRIDGE ENERGY, LIMITED PARTNERSHIP

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Aerial Photography Date: April 2011

ENBRIDGE

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Approved:	PL	9/22/2014
Project #:	60313732	

Map Location

Legend

- Mat Road (2010)
- Parking Area
- Mat Road (2011-2012)
- Decommisioning Activities
- 2010 Mat Road Soil Sample
- Decommissioning Sample
- Reach 3 Spill Area
- Parcel
- Quarter Mile Grid Segments
- Pipeline

N

0 15 30 60
Scale in Feet

FIGURE 7
REACH 3
DECOMMISSIONING/AUXILIARY LOCATIONS
SHEET 9 OF 11

ENBRIDGE LINE 6B MP 608
MARSHALL, MI PIPELINE RELEASE
ENBRIDGE ENERGY, LIMITED PARTNERSHIP

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Aerial Photography Date: April 2011

ENBRIDGE

Drawn:	NS	9/22/2014
Approved:	PL	9/22/2014
Project #:	60313732	

Map Location

Legend

- Mat Road (2010)
- Parking Area
- Mat Road (2011-2012)
- Decommisioning Activities
- 2010 Mat Road Soil Sample
- Decommissioning Sample
- Reach 3 Spill Area
- Parcel
- Quarter Mile Grid Segments
- Pipeline

N

0 15 30 60
Scale in Feet

FIGURE 7
REACH 3
DECOMMISSIONING/AUXILIARY LOCATIONS
SHEET 10 OF 11

ENBRIDGE LINE 6B MP 608
MARSHALL, MI PIPELINE RELEASE
ENBRIDGE ENERGY, LIMITED PARTNERSHIP

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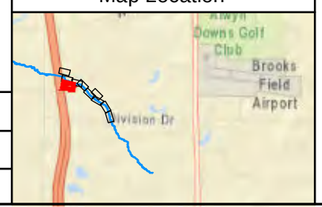
Aerial Photography Date: April 2011

ENBRIDGE

Drawn:	NS	9/22/2014
Approved:	PL	9/22/2014
Project #:	60313732	

Map Location



Legend

- Mat Road (2010)
- Parking Area
- Mat Road (2011-2012)
- Decommisioning Activities
- 2010 Mat Road Soil Sample
- Decommissioning Sample
- Reach 3 Spill Area
- Parcel
- Quarter Mile Grid Segments
- Pipeline

N

0 15 30 60
Scale in Feet

FIGURE 7
REACH 3
DECOMMISSIONING/AUXILIARY LOCATIONS
SHEET 11 OF 11

ENBRIDGE LINE 6B MP 608
MARSHALL, MI PIPELINE RELEASE
ENBRIDGE ENERGY, LIMITED PARTNERSHIP

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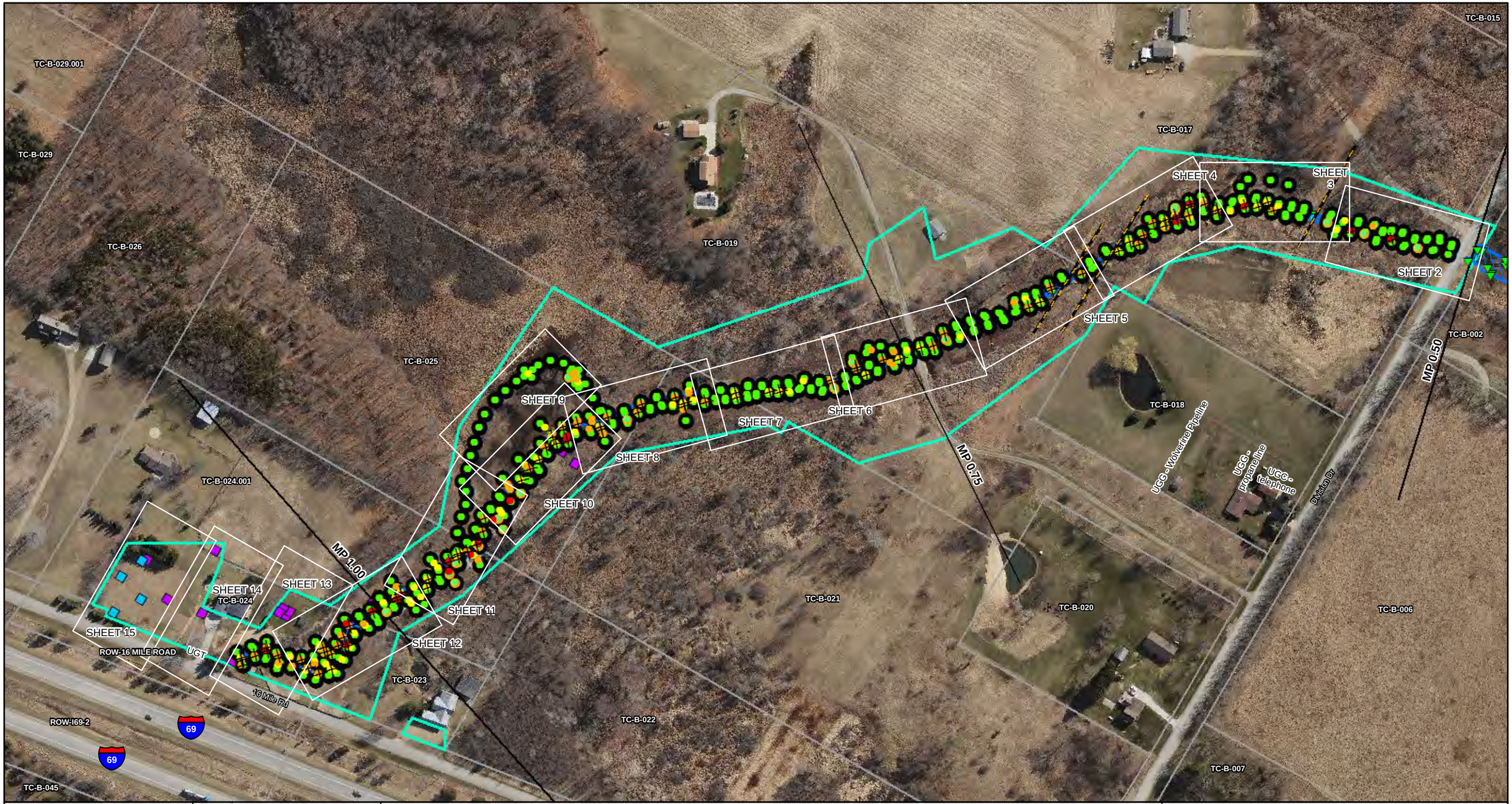
Aerial Photography Date: April 2011



ENBRIDGE

Drawn:	NS	10/2/2014
Approved:	PL	10/2/2014
Project #:	60313732	

Map Location

Legend

TCRI Soil Cores

- Impact Under Visible Light
- Fluoresence Observed Under UV Light
- Trace Fluoresence Under UV Light
- Surficial Impact Observed in Field
- No Impacts Observed

- TCRI Sampled Location
- Excavated TCRI Oil Extent
- Decommissioning Sample

2011/2012 Post-Excavation Sample

- Surface Water
- Soil

- Backfill Sample
- 2011-2012 Excavation
- Reach 3 Spill Area
- Parcel
- Quarter Mile Grid Segments

TCRI Talmadge Creek Remedial Investigation

- Pipeline
- SETC0200C008 Sample Location With Analytical Exceedance

2 ft = Excavation Depth

N

0 100 200 400

Scale in Feet

FIGURE 8
REACH 3
SOIL SAMPLE AND CORE LOCATIONS
SHEET 1 OF 15

ENBRIDGE LINE 6B MP 608
MARSHALL, MI PIPELINE RELEASE
ENBRIDGE ENERGY, LIMITED PARTNERSHIP

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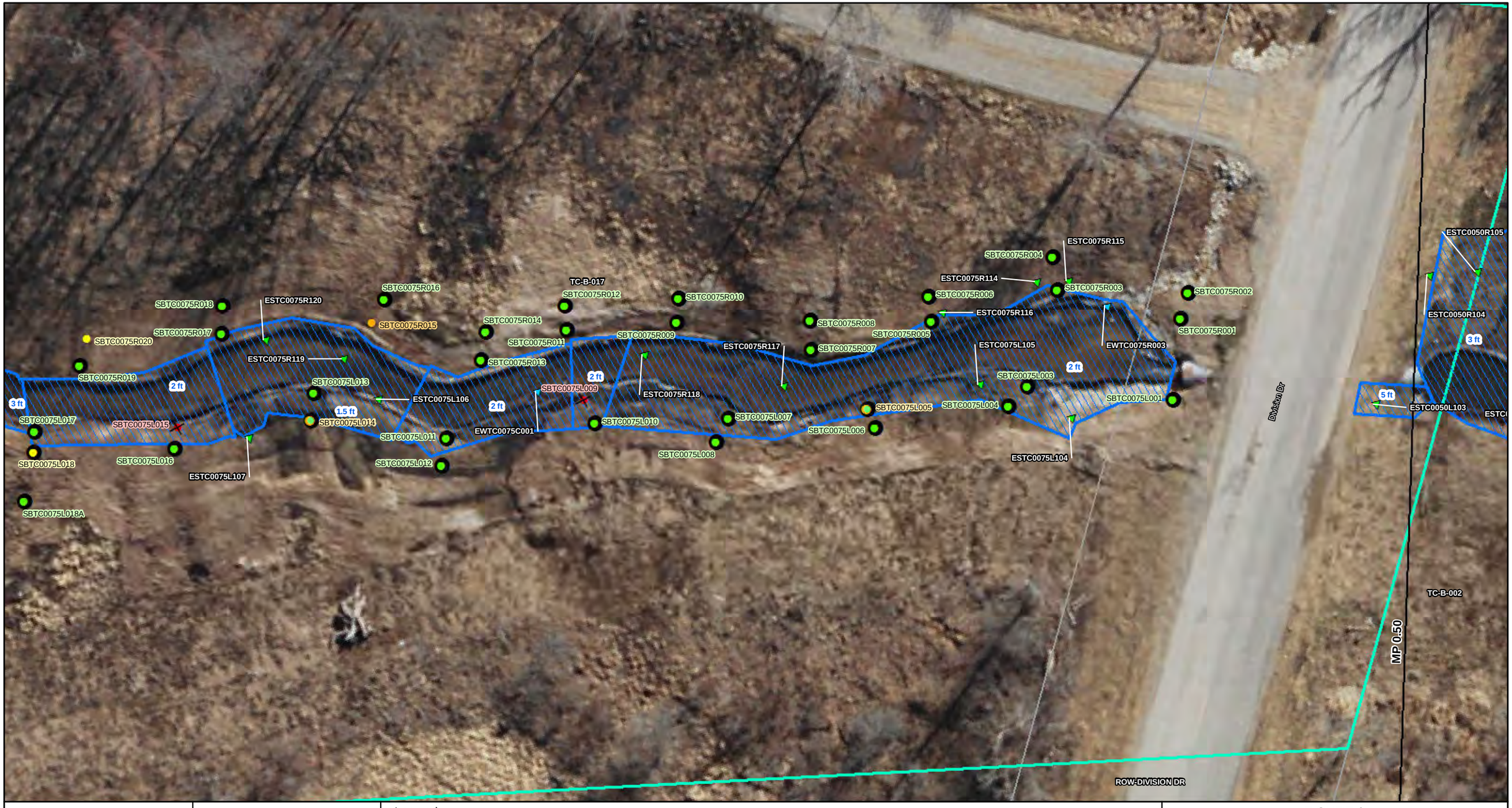
Aerial Photography Date: April 2011



ENBRIDGE

Drawn:	NS	10/2/2014
Approved:	PL	10/2/2014
Project #:	60313732	

Map Location

Legend

TCRI Soil Cores

- Impact Under Visible Light
- Fluoresence Observed Under UV Light
- Trace Fluoresence Under UV Light
- Surficial Impact Observed in Field
- No Impacts Observed

- TCRI Sampled Location
- Excavated TCRI Oil Extent
- Decommissioning Sample

2011/2012 Post-Excavation Sample

- Surface Water
- Soil

- Backfill Sample
- 2011-2012 Excavation
- Reach 3 Spill Area
- Parcel
- Quarter Mile Grid Segments

TCRI Talmadge Creek Remedial Investigation

- Pipeline
- SETC0200C008 Sample Location With Analytical Exceedance

2 ft = Excavation Depth

N

0 10 20 40

Scale in Feet

FIGURE 8
REACH 3
SOIL SAMPLE AND CORE LOCATIONS
SHEET 2 OF 15

ENBRIDGE LINE 6B MP 608
MARSHALL, MI PIPELINE RELEASE
ENBRIDGE ENERGY, LIMITED PARTNERSHIP

Z:\Work\GIS\Kalamazoo_River_RI\MXDs\Parcel_Primers\REACH3\Report\Figure_08_Reach_3_Soil_Samples_Sheet2-15.mxd

Aerial Photography Date: April 2011

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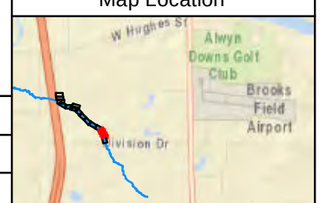
Project #:	60313732	

Map Location



Legend

TCRI Soil Cores

- Impact Under Visible Light
- Fluoresence Observed Under UV Light
- Trace Fluoresence Under UV Light
- Surficial Impact Observed in Field
- No Impacts Observed

- TCRI Sampled Location
- Excavated TCRI Oil Extent
- Decommissioning Sample

2011/2012 Post-Excavation Sample

- Surface Water
- Soil

- Backfill Sample
- 2011-2012 Excavation
- Reach 3 Spill Area
- Parcel
- Quarter Mile Grid Segments

TCRI Talmadge Creek Remedial Investigation

- Pipeline
- SETC0200C008 Sample Location With Analytical Exceedance
- 2 ft = Excavation Depth

0 10 20 40
Scale in Feet

FIGURE 8
REACH 3
SOIL SAMPLE AND CORE LOCATIONS
SHEET 3 OF 15

ENBRIDGE LINE 6B MP 608
MARSHALL, MI PIPELINE RELEASE
ENBRIDGE ENERGY, LIMITED PARTNERSHIP

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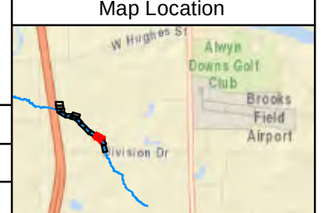
Map Location



Legend

TCRI Soil Cores

- Impact Under Visible Light
- Fluoresence Observed Under UV Light
- Trace Fluoresence Under UV Light
- Surficial Impact Observed in Field
- No Impacts Observed

- TCRI Sampled Location
- Excavated TCRI Oil Extent
- Decommissioning Sample

2011/2012 Post-Excavation Sample

- Surface Water
- Soil

- Backfill Sample
- 2011-2012 Excavation
- Reach 3 Spill Area
- Parcel
- Quarter Mile Grid Segments

- Pipeline
- SETC0200C008 Sample Location With Analytical Exceedance
- **2 ft** = Excavation Depth

TCRI Talmadge Creek Remedial Investigation

0 10 20 40
Scale in Feet

FIGURE 8
REACH 3
SOIL SAMPLE AND CORE LOCATIONS
SHEET 4 OF 15

ENBRIDGE LINE 6B MP 608
MARSHALL, MI PIPELINE RELEASE
ENBRIDGE ENERGY, LIMITED PARTNERSHIP

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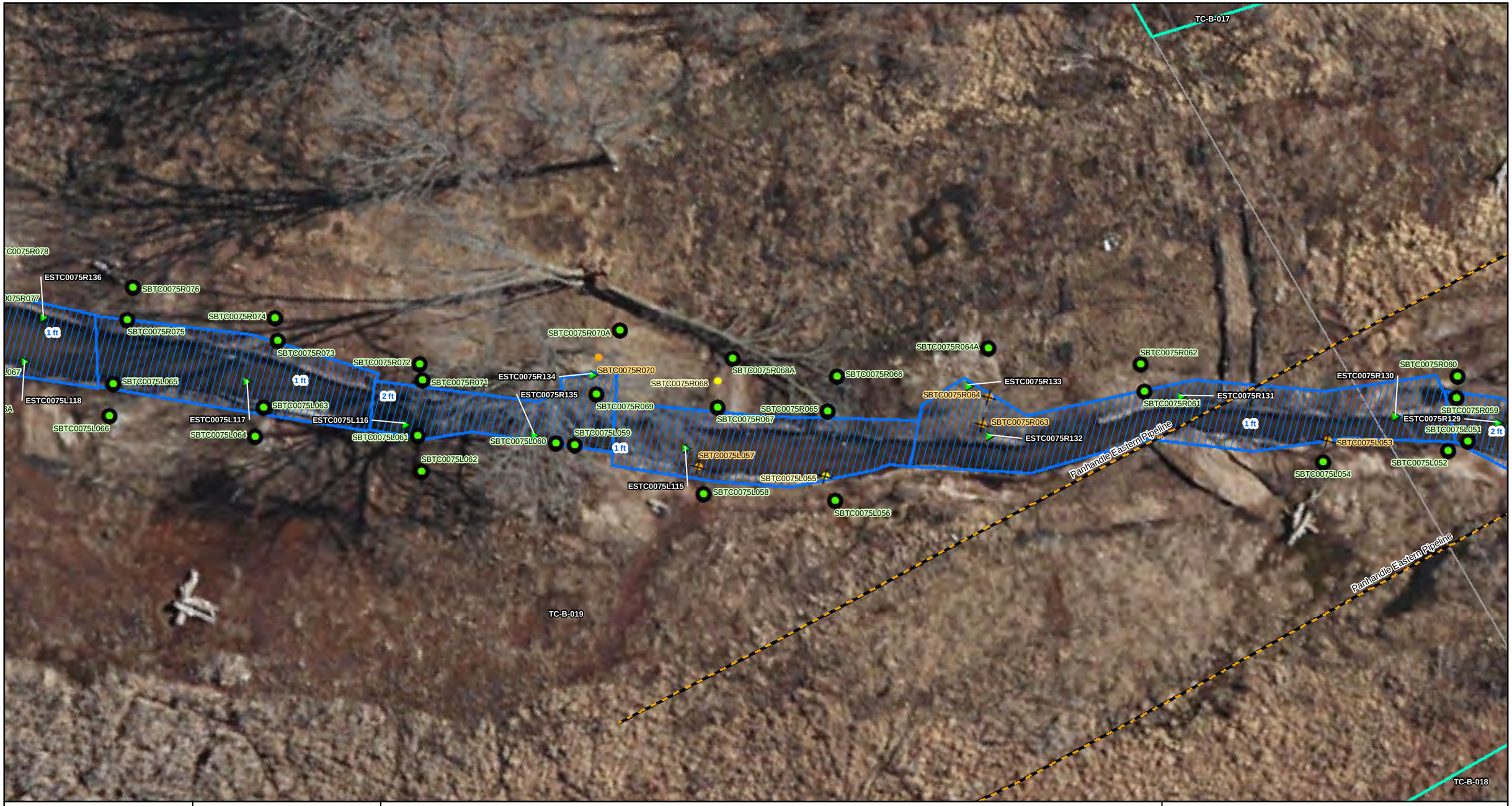

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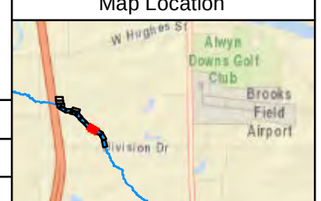
Map Location



Legend

TCRI Soil Cores

- Impact Under Visible Light
- Fluoresence Observed Under UV Light
- Trace Fluoresence Under UV Light
- Surficial Impact Observed in Field
- No Impacts Observed

- TCRI Sampled Location
- Excavated TCRI Oil Extent
- Decommissioning Sample

2011/2012 Post-Excavation Sample

- Surface Water
- Soil

- Backfill Sample
- 2011-2012 Excavation
- Reach 3 Spill Area
- Parcel
- Quarter Mile Grid Segments

TCRI Talmadge Creek Remedial Investigation

Pipeline

SETC0200C008 Sample Location With Analytical Exceedance

2 ft = Excavation Depth

N

0 10 20 40

Scale in Feet

FIGURE 8
REACH 3
SOIL SAMPLE AND CORE LOCATIONS
SHEET 5 OF 15

ENBRIDGE LINE 6B MP 608
MARSHALL, MI PIPELINE RELEASE
ENBRIDGE ENERGY, LIMITED PARTNERSHIP

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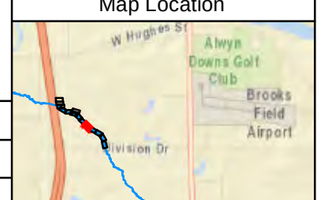
Map Location



Legend

TCRI Soil Cores

- Impact Under Visible Light
- Fluoresence Observed Under UV Light
- Trace Fluoresence Under UV Light
- Surficial Impact Observed in Field
- No Impacts Observed

- TCRI Sampled Location
- Excavated TCRI Oil Extent
- Decommissioning Sample

2011/2012 Post-Excavation Sample

- Surface Water
- Soil

- Backfill Sample
- 2011-2012 Excavation
- Reach 3 Spill Area
- Parcel
- Quarter Mile Grid Segments

TCRI Talmadge Creek Remedial Investigation

- Pipeline
- SETC0200C008 Sample Location With Analytical Exceedance
- 2 ft = Excavation Depth

0 10 20 40
Scale in Feet

FIGURE 8
REACH 3
SOIL SAMPLE AND CORE LOCATIONS
SHEET 6 OF 15

ENBRIDGE LINE 6B MP 608
MARSHALL, MI PIPELINE RELEASE
ENBRIDGE ENERGY, LIMITED PARTNERSHIP

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Map Location

Legend

TCRI Soil Cores

- Impact Under Visible Light
- Fluoresence Observed Under UV Light
- Trace Fluoresence Under UV Light
- Surficial Impact Observed in Field
- No Impacts Observed

- TCRI Sampled Location
- Excavated TCRI Oil Extent
- Decommissioning Sample

2011/2012 Post-Excavation Sample

- Surface Water
- Soil

- Backfill Sample
- 2011-2012 Excavation
- Reach 3 Spill Area
- Parcel
- Quarter Mile Grid Segments

TCRI Talmadge Creek Remedial Investigation

- Pipeline
- SETC0200C008 Sample Location With Analytical Exceedance
- 2 ft = Excavation Depth

0 10 20 40
Scale in Feet

FIGURE 8
REACH 3
SOIL SAMPLE AND CORE LOCATIONS
SHEET 7 OF 15

ENBRIDGE LINE 6B MP 608
MARSHALL, MI PIPELINE RELEASE
ENBRIDGE ENERGY, LIMITED PARTNERSHIP

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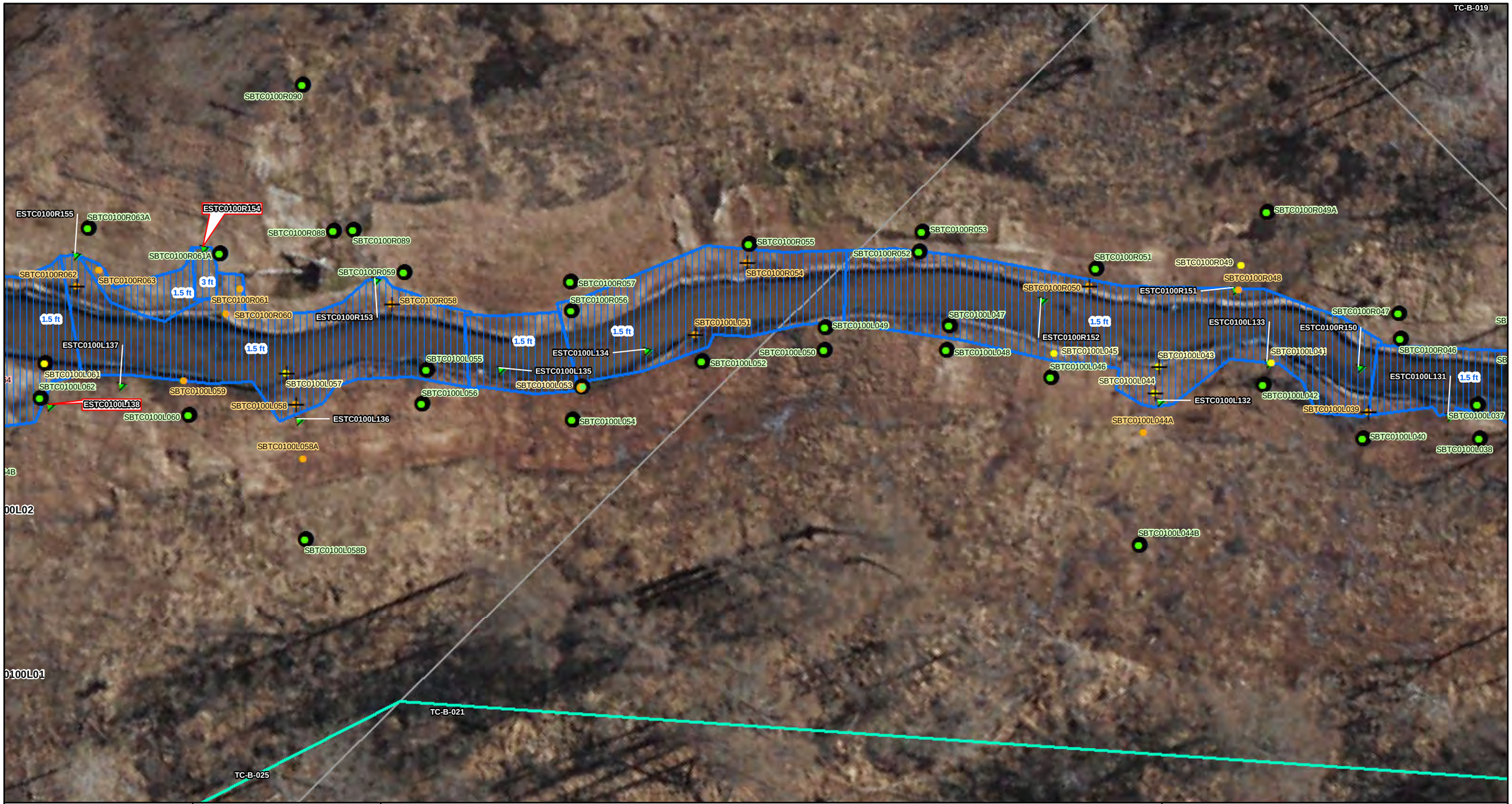

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Map Location

Legend

TCRI Soil Cores
- Impact Under Visible Light
- Fluoresence Observed Under UV Light
- Trace Fluoresence Under UV Light
- Surficial Impact Observed in Field
- No Impacts Observed

- TCRI Sampled Location
- Excavated TCRI Oil Extent
- Decommissioning Sample

2011/2012 Post-Excavation Sample
- Surface Water
- Soil

- Backfill Sample
- 2011-2012 Excavation
- Reach 3 Spill Area
- Parcel
- Quarter Mile Grid Segments

TCRI Talmadge Creek Remedial Investigation

- Pipeline
- SETC0200C008 Sample Location With Analytical Exceedance
- 2 ft = Excavation Depth

0 10 20 40
Scale in Feet

FIGURE 8
REACH 3
SOIL SAMPLE AND CORE LOCATIONS
SHEET 8 OF 15

ENBRIDGE LINE 6B MP 608
MARSHALL, MI PIPELINE RELEASE
ENBRIDGE ENERGY, LIMITED PARTNERSHIP

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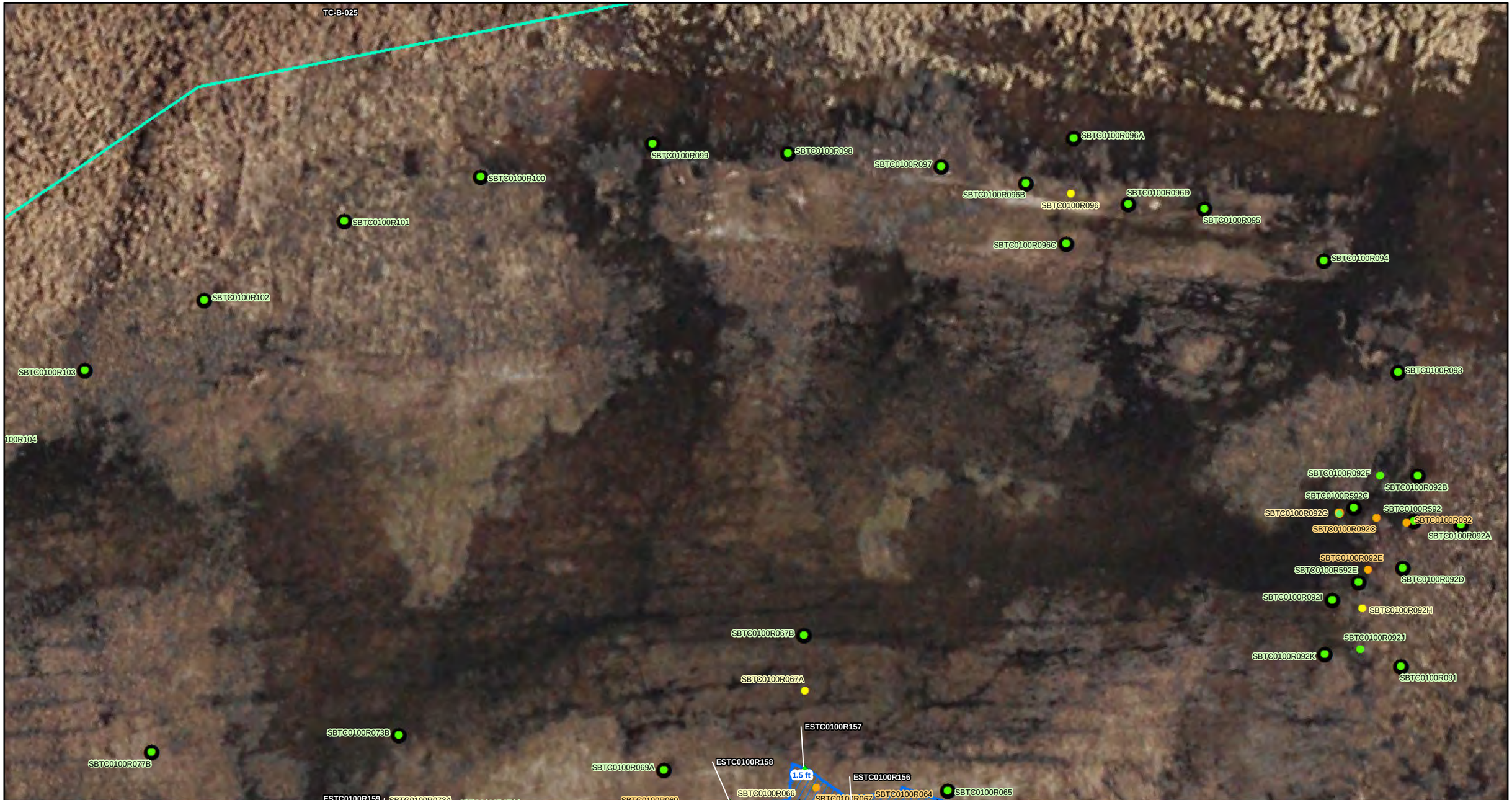

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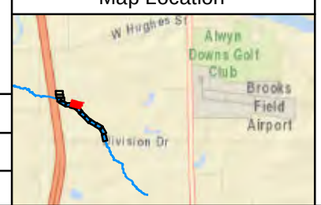
Map Location



Legend

TCRI Soil Cores

- Impact Under Visible Light
- Fluoresence Observed Under UV Light
- Trace Fluoresence Under UV Light
- Surficial Impact Observed in Field
- No Impacts Observed

- TCRI Sampled Location
- Excavated TCRI Oil Extent
- Decommissioning Sample

2011/2012 Post-Excavation Sample

- Surface Water
- Soil

- Backfill Sample
- 2011-2012 Excavation
- Reach 3 Spill Area
- Parcel
- Quarter Mile Grid Segments

TCRI Talmadge Creek Remedial Investigation

- Pipeline
- SETC0200C008 Sample Location With Analytical Exceedance
- 2 ft = Excavation Depth

N

0 10 20 40

Scale in Feet

FIGURE 8
REACH 3
SOIL SAMPLE AND CORE LOCATIONS
SHEET 9 OF 15

ENBRIDGE LINE 6B MP 608
MARSHALL, MI PIPELINE RELEASE
ENBRIDGE ENERGY, LIMITED PARTNERSHIP

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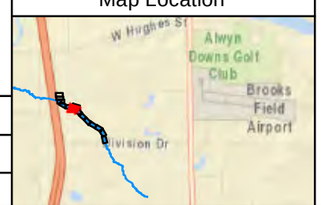
Map Location



Legend

TCRI Soil Cores

- Impact Under Visible Light
- Fluoresence Observed Under UV Light
- Trace Fluoresence Under UV Light
- Surficial Impact Observed in Field
- No Impacts Observed

- TCRI Sampled Location
- Excavated TCRI Oil Extent
- Decommissioning Sample

2011/2012 Post-Excavation Sample

- Surface Water
- Soil

- Backfill Sample
- 2011-2012 Excavation
- Reach 3 Spill Area
- Parcel
- Quarter Mile Grid Segments

TCRI Talmadge Creek Remedial Investigation

- Pipeline
- SETC0200C008 Sample Location With Analytical Exceedance
- 2 ft = Excavation Depth

N

0 10 20 40

Scale in Feet

FIGURE 8
REACH 3
SOIL SAMPLE AND CORE LOCATIONS
SHEET 10 OF 15

ENBRIDGE LINE 6B MP 608
MARSHALL, MI PIPELINE RELEASE
ENBRIDGE ENERGY, LIMITED PARTNERSHIP

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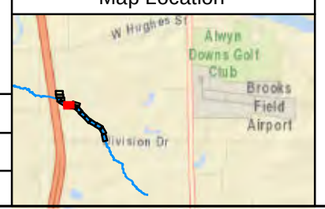

Legend

TCRI Soil Cores

- Impact Under Visible Light
- Fluoresence Observed Under UV Light
- Trace Fluoresence Under UV Light
- Surficial Impact Observed in Field
- No Impacts Observed

- TCRI Sampled Location
- Excavated TCRI Oil Extent
- Decommissioning Sample

2011/2012 Post-Excavation Sample

- Surface Water
- Soil

- Backfill Sample
- 2011-2012 Excavation
- Reach 3 Spill Area
- Parcel
- Quarter Mile Grid Segments

- Pipeline
- SETC0200C008 Sample Location With Analytical Exceedance
- **2 ft** = Excavation Depth

N

0 10 20 40

Scale in Feet

TCRI Talmadge Creek Remedial Investigation

FIGURE 8
REACH 3
SOIL SAMPLE AND CORE LOCATIONS
SHEET 11 OF 15

ENBRIDGE LINE 6B MP 608
MARSHALL, MI PIPELINE RELEASE
ENBRIDGE ENERGY, LIMITED PARTNERSHIP

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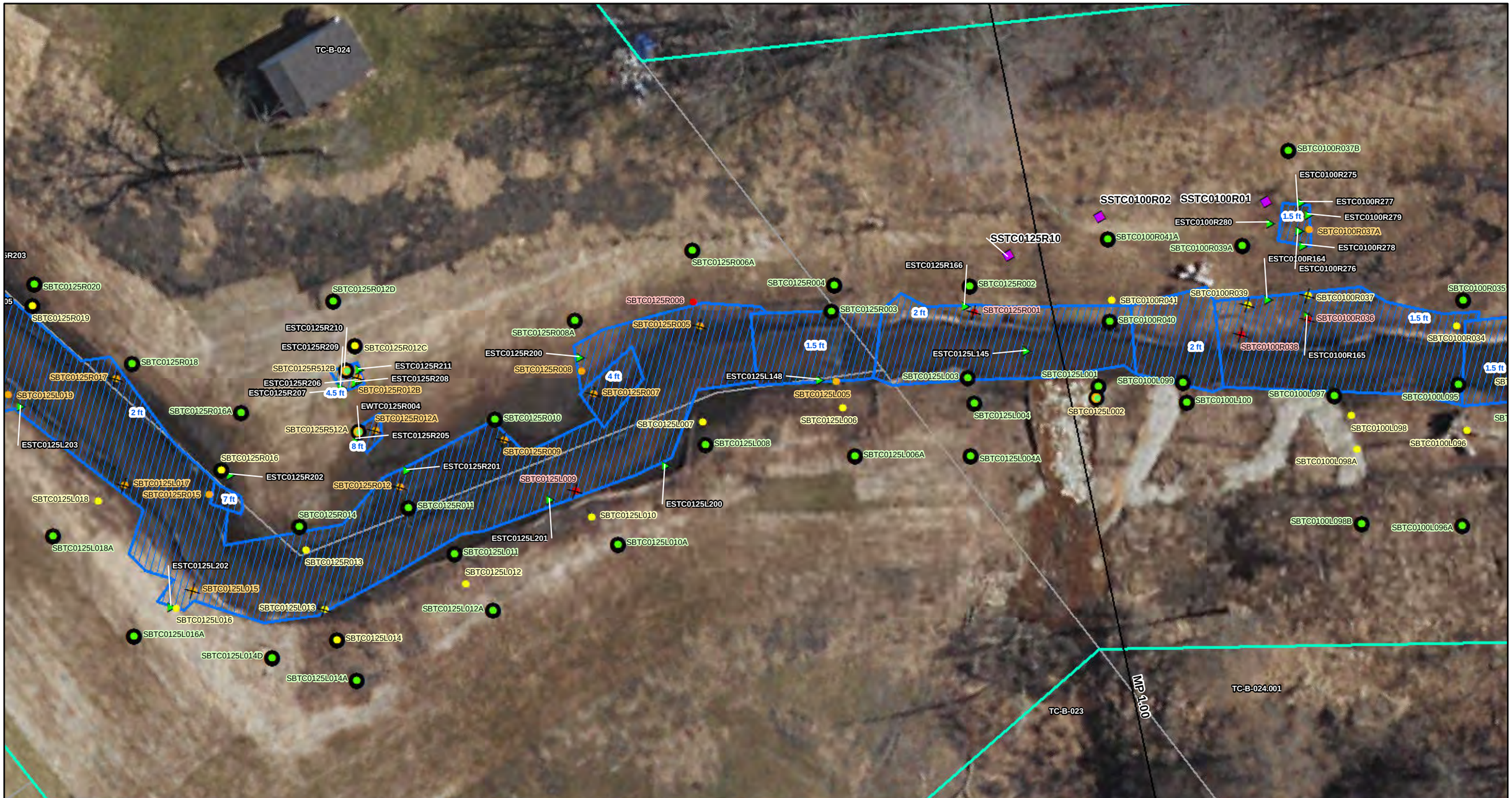

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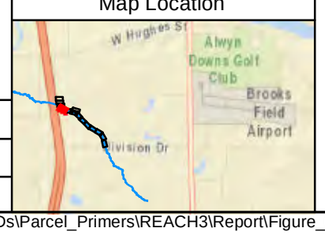

Legend

TCRI Soil Cores

- Impact Under Visible Light
- Fluoresence Observed Under UV Light
- Trace Fluoresence Under UV Light
- Surficial Impact Observed in Field
- No Impacts Observed

- TCRI Sampled Location
- Excavated TCRI Oil Extent
- Decommissioning Sample

2011/2012 Post-Excavation Sample

- Surface Water
- Soil

- Backfill Sample
- 2011-2012 Excavation
- Reach 3 Spill Area
- Parcel
- Quarter Mile Grid Segments

TCRI Talmadge Creek Remedial Investigation

- Pipeline
- SETC0200C008 Sample Location With Analytical Exceedance
- 2 ft = Excavation Depth

N

0 10 20 40

Scale in Feet

FIGURE 8
REACH 3
SOIL SAMPLE AND CORE LOCATIONS
SHEET 12 OF 15

ENBRIDGE LINE 6B MP 608
MARSHALL, MI PIPELINE RELEASE
ENBRIDGE ENERGY, LIMITED PARTNERSHIP

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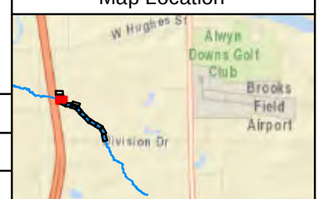
Map Location



Legend

TCRI Soil Cores

- Impact Under Visible Light
- Fluoresence Observed Under UV Light
- Trace Fluoresence Under UV Light
- Surficial Impact Observed in Field
- No Impacts Observed

- TCRI Sampled Location
- Excavated TCRI Oil Extent
- Decommissioning Sample

2011/2012 Post-Excavation Sample

- Surface Water
- Soil

- Backfill Sample
- 2011-2012 Excavation
- Reach 3 Spill Area
- Parcel
- Quarter Mile Grid Segments

TCRI Talmadge Creek Remedial Investigation

- Pipeline
- SETC0200C008 Sample Location With Analytical Exceedance

2 ft = Excavation Depth

N

0 10 20 40

Scale in Feet

FIGURE 8
REACH 3
SOIL SAMPLE AND CORE LOCATIONS
SHEET 13 OF 15

ENBRIDGE LINE 6B MP 608
MARSHALL, MI PIPELINE RELEASE
ENBRIDGE ENERGY, LIMITED PARTNERSHIP

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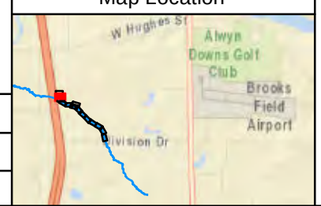

Legend

TCRI Soil Cores
- Impact Under Visible Light
- Fluoresence Observed Under UV Light
- Trace Fluoresence Under UV Light
- Surficial Impact Observed in Field
- No Impacts Observed

- TCRI Sampled Location
- Excavated TCRI Oil Extent
- Decommissioning Sample

2011/2012 Post-Excavation Sample
- Surface Water
- Soil

- Backfill Sample
- 2011-2012 Excavation
- Reach 3 Spill Area
- Parcel
- Quarter Mile Grid Segments

TCRI Talmadge Creek Remedial Investigation

- Pipeline
- SETC0200C008 Sample Location With Analytical Exceedance
- **2 ft** = Excavation Depth

N

0 10 20 40
Scale in Feet

FIGURE 8
REACH 3
SOIL SAMPLE AND CORE LOCATIONS
SHEET 14 OF 15

ENBRIDGE LINE 6B MP 608
MARSHALL, MI PIPELINE RELEASE
ENBRIDGE ENERGY, LIMITED PARTNERSHIP

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Map Location

Legend

TCRI Soil Cores
- Impact Under Visible Light
- Fluoresence Observed Under UV Light
- Trace Fluoresence Under UV Light
- Surficial Impact Observed in Field
- No Impacts Observed

- TCRI Sampled Location
- Excavated TCRI Oil Extent
- Decommissioning Sample

2011/2012 Post-Excavation Sample
- Surface Water
- Soil

- Backfill Sample
- 2011-2012 Excavation
- Reach 3 Spill Area
- Parcel
- Quarter Mile Grid Segments

TCRI Talmadge Creek Remedial Investigation

- Pipeline
- SETC0200C008 Sample Location With Analytical Exceedance
- **2 ft** = Excavation Depth

N

0 10 20 40
Scale in Feet

FIGURE 8
REACH 3
SOIL SAMPLE AND CORE LOCATIONS
SHEET 15 OF 15

ENBRIDGE LINE 6B MP 608
MARSHALL, MI PIPELINE RELEASE
ENBRIDGE ENERGY, LIMITED PARTNERSHIP

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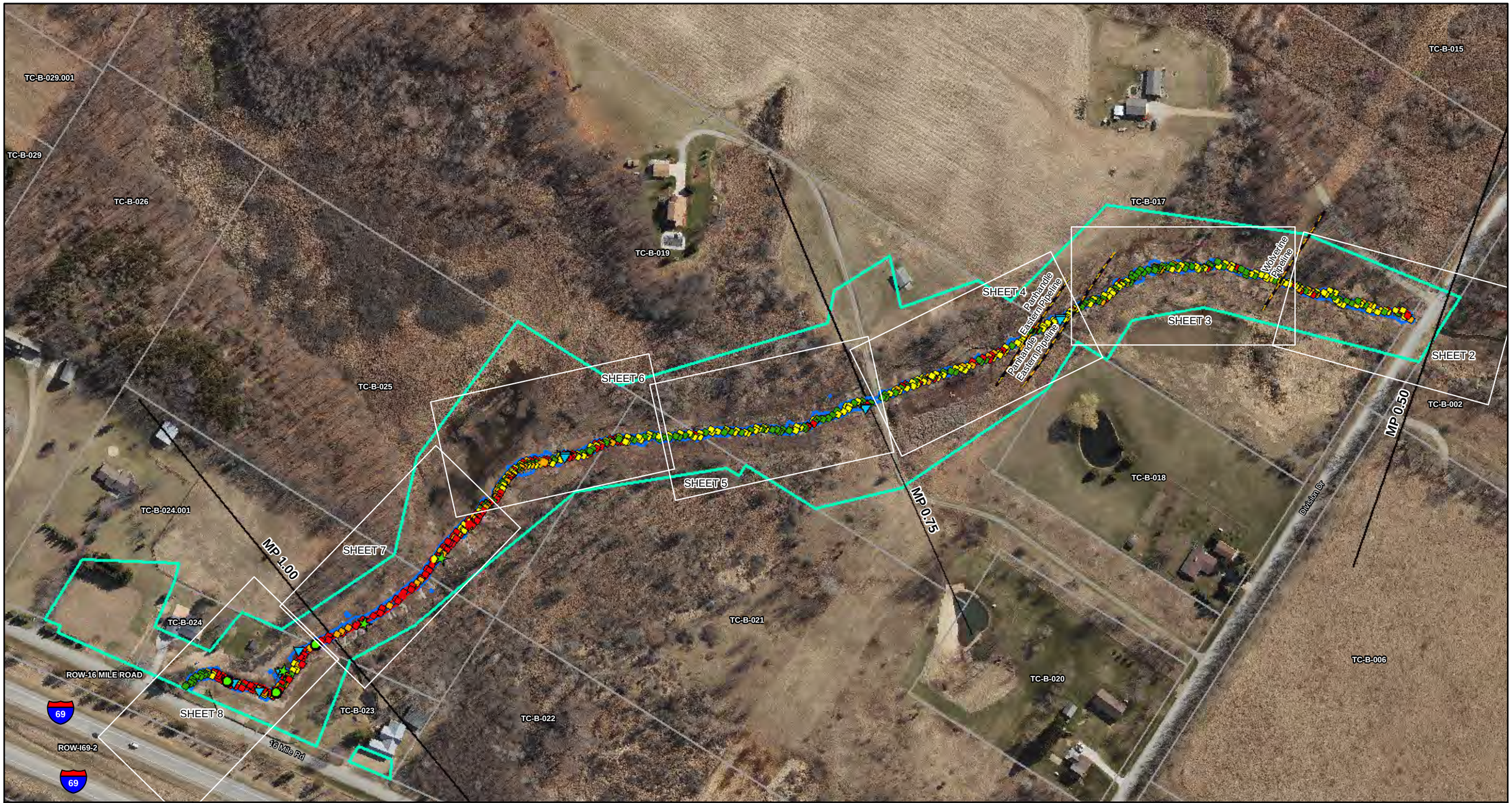

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Project #:	60313732	

Map Location

Legend

TCRI Sediment Cores
- Impact Under Visible Light
- Fluoresence Observed Under UV Light
- Trace Fluoresence Under UV Light
- Surficial Impact Observed in Field
- No Impacts Observed
- TCRI Sampled Location

Data Gap Sample
- Oil
- Visible Sheen
- Fluoresced Oil
- Trace Fluorescence
- No Oil Observed

- SOTF Sediment Sample
- 2011 Talmadge Excavation

Poling Delineation
- Heavy
- Moderate
- Light

2011 Poling
- Heavy
- Moderate
- Light
- None

- Reach 3 Spill Area
- Parcel

- Quarter Mile Grid Segments
- Pipeline

N

0 95 190 380
Scale in Feet

FIGURE 9
REACH 3
SEDIMENT CORE LOCATIONS
AND POLING LOCATIONS
SHEET 1 OF 8

ENBRIDGE LINE 6B MP 608
MARSHALL, MI PIPELINE RELEASE
ENBRIDGE ENERGY, LIMITED PARTNERSHIP

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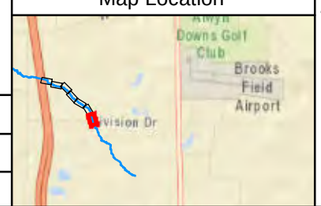

Legend

TCRI Sediment Cores
- Impact Under Visible Light
- Fluoresence Observed Under UV Light
- Trace Fluoresence Under UV Light
- Surficial Impact Observed in Field
- No Impacts Observed
- TCRI Sampled Location

Data Gap Sample
- Oil
- Visible Sheen
- Fluoresced Oil
- Trace Fluorescence
- No Oil Observed

- SOTF Sediment Sample
- 2011 Talmadge Excavation

Poling Delineation
- Heavy
- Moderate
- Light

2011 Poling
- Heavy
- Moderate
- Light
- None
- Reach 3 Spill Area
- Parcel

- Quarter Mile Grid Segments
- Pipeline

N

0 15 30 60
Scale in Feet

FIGURE 9
REACH 3
SEDIMENT CORE LOCATIONS
AND POLING LOCATIONS
SHEET 2 OF 8

ENBRIDGE LINE 6B MP 608
MARSHALL, MI PIPELINE RELEASE
ENBRIDGE ENERGY, LIMITED PARTNERSHIP

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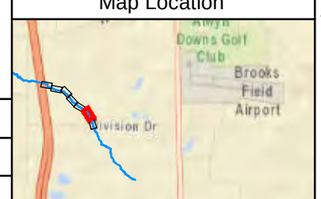

Legend

TCRI Sediment Cores
- Impact Under Visible Light
- Fluoresence Observed Under UV Light
- Trace Fluoresence Under UV Light
- Surficial Impact Observed in Field
- No Impacts Observed
- TCRI Sampled Location

Data Gap Sample
- Oil
- Visible Sheen
- Fluoresced Oil
- Trace Fluorescence
- No Oil Observed

- SOTF Sediment Sample
- 2011 Talmadge Excavation

Poling Delineation
- Heavy
- Moderate
- Light

2011 Poling
- Heavy
- Moderate
- Light
- None
- Reach 3 Spill Area
- Parcel

- Quarter Mile Grid Segments
- Pipeline

N

0 15 30 60
Scale in Feet

FIGURE 9
REACH 3
SEDIMENT CORE LOCATIONS
AND POLING LOCATIONS
SHEET 3 OF 8

ENBRIDGE LINE 6B MP 608
MARSHALL, MI PIPELINE RELEASE
ENBRIDGE ENERGY, LIMITED PARTNERSHIP

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Aerial Photography Date: April 2011

ENBRIDGE

Drawn:	NS	9/19/2014
Approved:	PL	9/19/2014
Project #:	60313732	

Map Location

Legend

TCRI Sediment Cores
- Impact Under Visible Light
- Fluoresence Observed Under UV Light
- Trace Fluoresence Under UV Light
- Surficial Impact Observed in Field
- No Impacts Observed
- TCRI Sampled Location

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FIGURE 9
REACH 3
SEDIMENT CORE LOCATIONS
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SHEET 4 OF 8

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Scale in Feet

FIGURE 9
REACH 3
SEDIMENT CORE LOCATIONS
AND POLING LOCATIONS
SHEET 5 OF 8

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