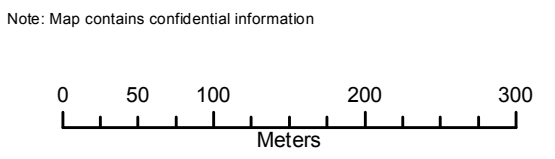


Legend

- TU-01** AECOM Survey Location
- Hwy401-6 Limits Of Work
- Vegetation Community
- Property Fabric
- Buffer - 200m from MTO ROW
- Turtle SAR Habitat**
 - Field Verified Candidate Turtle SAR Habitat
 - Unsuitable Turtle SAR Habitat
 - Snapping Turtle Present



Highway 401/6

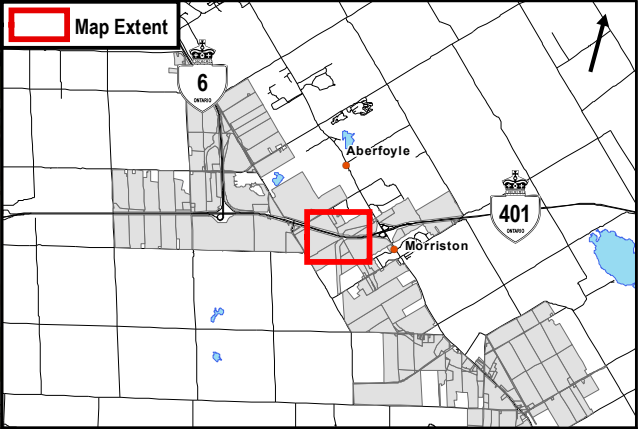
Draft Turtle SAR Survey Locations

7/9/2018	1:5,000	Datum:NAD83 Zone17 Source: MTO, Puslinch, LIO
P#: 60541071	V#: 001	

Figure 2

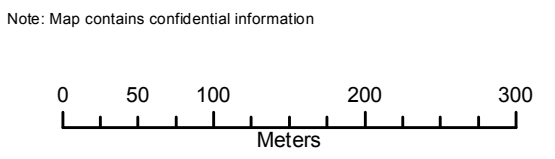
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Map location: \\C:\AK\CONTR\01 Data Projects\60541071 HWY 401-6900CAD_GIS\20-5281 GIS\Graphics\Drawings_Analysis\SAR\MXD_Analysis\SAR\MXD_Territorial_SAR_TURTLE_20180709.mxd
Date Saved: 7/9/2018 3:31:00 PM



Legend

- TU-01 AECOM Survey Location
- Hwy401-6 Limits Of Work
- Vegetation Community
- Property Fabric
- Buffer - 200m from MTO ROW
- Turtle SAR Habitat
 - Field Verified Candidate Turtle SAR Habitat
 - Unsuitable Turtle SAR Habitat
 - Snapping Turtle Present



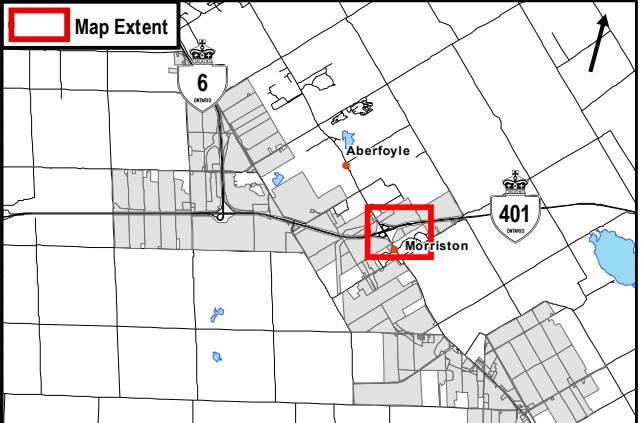
Highway 401/6

Draft Turtle SAR Survey Locations

7/9/2018	1:5,000	Datum:NAD83 Zone17 Source: MTO, Puslinch, LIO
P#: 60541071	V#: 001	AECOM
Figure 4		

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Map location: \\C:\AK\CONTR\001\Draws\Projects\60541071 HWY 401-6\GIS\Graphics\Drawings\Analysis\SAR\MXD_Analysis\SAR\MXD_Territorial_SAR_Turtle_20180709.mxd
Date Saved: 7/9/2018 3:31:06 PM



Legend

TU-01

AECOM Survey Location

Hwy401-6 Limits Of Work

Vegetation Community

Property Fabric

Buffer - 200m from MTO ROW

Turtle SAR Habitat

Field Verified Candidate Turtle SAR Habitat

Unsuitable Turtle SAR Habitat

Snapping Turtle Present

Note: Map contains confidential information

Highway 401/6

Draft Turtle SAR Survey Locations

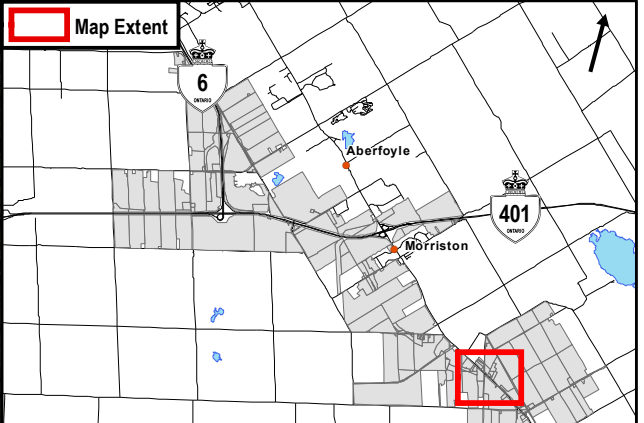
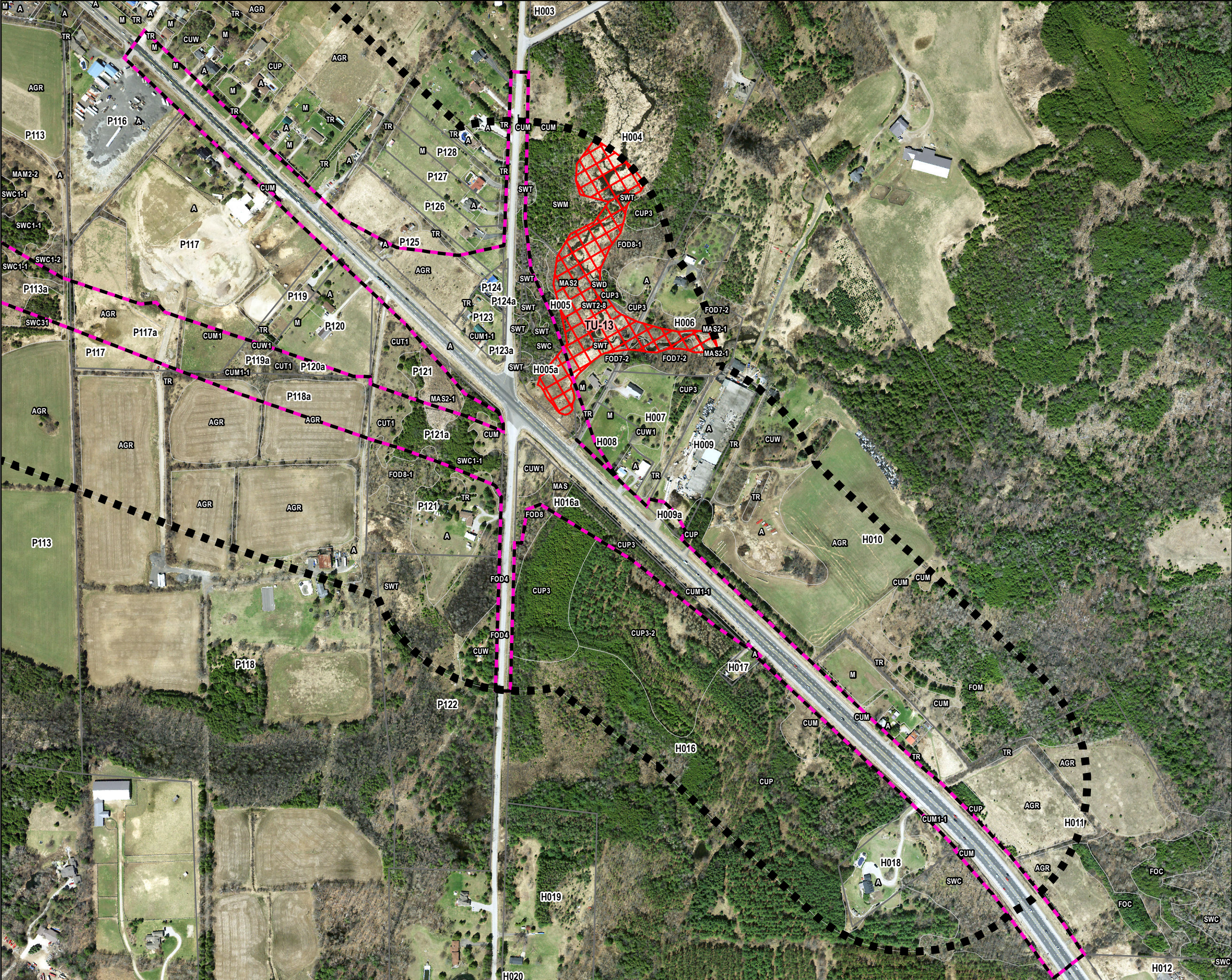
7/9/2018	1:5,000	Datum:NAD83 Zone17 Source: MTO, Puslinch, LIO
P#: 60541071	V#: 001	

AECOM

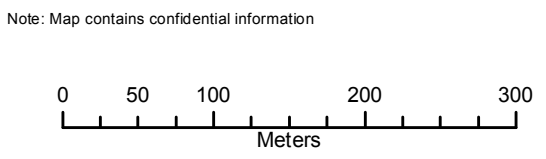
Figure 5

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Map location: \\C:\AECOM\Projects\60541071\GIS\Graphics\MapDocs\Analysis\SAR\MTO_Turtle_SAR_Turtle_20180709.mxd
Date Saved: 7/9/2018 3:31:06 PM



- Legend**
- TU-01** AECOM Survey Location
 - Hwy401-6 Limits Of Work**
 - Vegetation Community**
 - Property Fabric**
 - Buffer - 200m from MTO ROW**
 - Turtle SAR Habitat**
 - Field Verified Candidate Turtle SAR Habitat**
 - Unsuitable Turtle SAR Habitat**
 - Snapping Turtle Present**



Highway 401/6		
Draft Turtle SAR Survey Locations		
7/9/2018	1:5,000	Datum:NAD83 Zone17 Source: MTO, Puslinch, LIO
P#: 60541071	V#: 001	Figure 9
AECOM		
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Attachment **B**

Photographic Log

Photographic Log

Blanding's Turtle and Snapping Turtle Species-Specific Surveys undertaken for the "Preliminary Design Update, Detail Design and Class Environmental Assessment Study for the Highways 6 & 401 Improvements"



Photograph 1 ↑

TU-01: Overview of observation point. Deciduous swamp with shallow water adjacent to Hwy 401 (30/04/2018)



Photograph 2 ↑

TU-02: Overview of observation point. Large pond with MAS2 along the edge (30/04/2018)



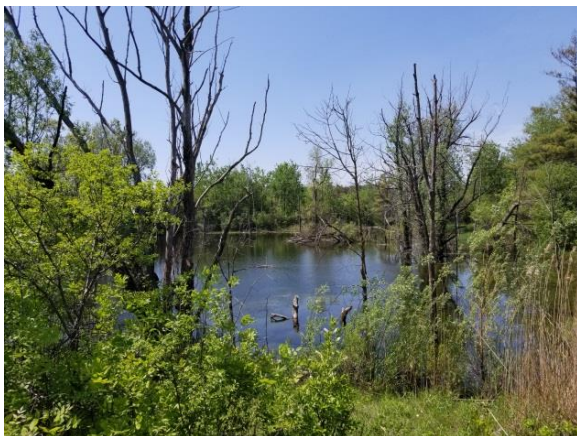
Photograph 3 ↑

TU-02: Midland painted turtle (*Chrysemys picta marginata*) observed (30/04/2018)



Photograph 4 ↑

TU-02: Snapping turtle (*Chelydra serpentina*) observed on trail adjacent to the pond



Photograph 5 ↑

TU-03: Overview of observation point. Large pond with MAS2 along the edge (25/05/2018)



Photograph 6 ↑

TU-03: Midland painted turtles (*Chrysemys picta marginata*) basking on log (08/05/2018)

Photographic Log

Blanding's Turtle and Snapping Turtle Species-Specific Surveys undertaken for the "Preliminary Design Update, Detail Design and Class Environmental Assessment Study for the Highways 6 & 401 Improvements"



Photograph 7 ↑
TU-04: Overview of observation point, open water aquatic community (30/04/2018)



Photograph 8 ↑
TU-04: Midland painted turtles basking on a log (08/05/2018)



Photograph 9 ↑
TU-05: Overview of observation point, open water aquatic pond community (17/05/2018)



Photograph 10 ↑
TU-06: Open water aquatic pond surrounded by a deciduous forest and swamp thicket (07/05/2018)



Photograph 11 ↑
TU-07: Overview of observation point, open aquatic pond surrounded by cattail marsh and swamp thicket (08/05/2018)



Photograph 12 ↑
TU-08: Overview of observation point, shallow waters with deciduous forest adjacent to the pond (30/04/2018)

Photographic Log

Blanding's Turtle and Snapping Turtle Species-Specific Surveys undertaken for the "Preliminary Design Update, Detail Design and Class Environmental Assessment Study for the Highways 6 & 401 Improvements"



Photograph 13 ↑

TU-09: Overview of observation point, open water aquatic pond with abundant basking locations on eastern side of pond (17/05/2018)



Photograph 14 ↑

TU-09: Snapping turtle (*Chelydra serpentina*) observed (07/05/2018)



Photograph 15 ↑

TU-10: Overview of observation point, open aquatic pond surrounded by shrub thicket swamp (16/05/2018)



Photograph 16 ↑

TU-11: Overview of transect. Marsh community surrounded by mixed swamp community, with mats of fallen cattail stems (23/05/2018)



Photograph 17 ↑

TU-12: Overview of observation point, open water aquatic pond (16/05/2018)



Photograph 18 ↑

TU-13: Overview of transect, site deemed unsuitable due to lack of water (14/05/2018)

Attachment **C**

Turtle SAR Field Data Collection Forms

Additional Notes

A total of 5 basking turtles observed across the cattail mineral marsh on west side of pond. Turtles were utilizing mats created by cattail vegetation from last year's growth.

Incidental Observations:

- green frog
- Canada goose + nest within TU-02
- Swan
- buffbreasted pair
- mallard
- garter snake

- 1 painted turtle observed basking on walk in UTM 17T 0567571 4811480

Photo Log

Photo ID	Description (locations, direction, observation, etc.)
NS 1975	Basking turtles 2 pictures
NS 1976, 1977	Overview from observation point
NS 1959	Overview of pond South looking north
NS 1964	Incidental garter snake
NS 1960	Incidental green frog
NS	

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Description of Local Habitat Conditions and Adjacent Land Use:

Turtle species observed during monitoring period (Yes/No): *.If yes, fill in the table below.*

[illegible]

Additional Notes

-Two walkers were encountered during the surveys.
They directed us to Beavers in an adjacent pond

Incidental observations:

- buffleheads
- Red winged blackbirds
- snapping turtle nests
- fern
- Downy woodpecker

Photo Log

Photo ID	Description (locations, direction, observation, etc.)
NS 1989	Overview of northern portion of TL-02-S looking N.
NS 1988-1988	Overview of vantage point
	SEVEN
NS 1978-1980	Four nesting holes in path with predated Snapping
1990	turtle eggs. UTM 0560700, 4810981
NS 1981-1983	Two predated nests. UTM 0560700, 4810985
NS 1955, 1956	Incidental Painted turtle + overview Swamp
	thicket

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

[illegible]

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Additional Notes

Used three vantage points around pond to fully capture feature and observe for basking turtles. Only vantage (2) was positive for turtles. Two large painted observed.

Photo Log

[illegible]

