

Map Date: November 27, 2020

SWM Pond

Outfall

Railway

Swale

Watercourse

Roads

LEC Watershed

Lower Model Area

Level of Service

Sewer

Level of Service ≤ 2-year

2-year < Level of Service ≤ 5-year

5-year < Level of Service ≤ 10-year

10-year < Level of Service

0

500

1000 m

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Little Etobicoke Creek Phase 2
Flood Evaluation Study

24603-155562

MIKE URBAN Results - Upper Model Area

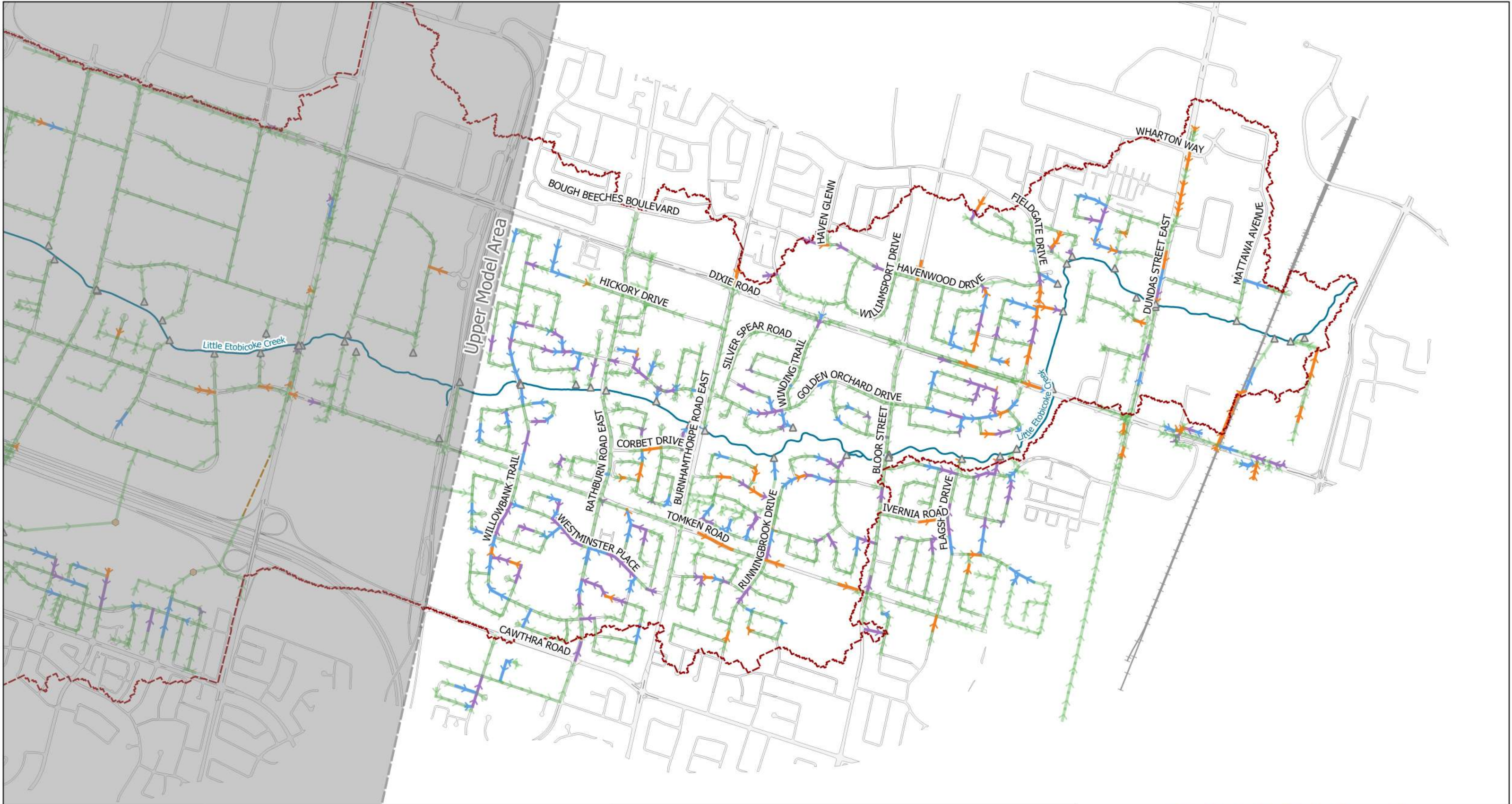
Existing Conditions: Level of Service (Sewer Capacity)

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K. Hofbauer

Map 1.1

T:\24603 - Little EtobicokeCr_Flood\531\05 Analysis\GIS\Level of Service\LOS\24603 Level of Service_V2_20200615.qgs



Map Date: November 27, 2020

SWM Pond

Outfall

Railway

Swale

Watercourse

Roads

LEC Watershed

Upper Model Area

Level of Service
Sewer

Level of Service ≤ 2-year

2-year < Level of Service ≤ 5-year

5-year < Level of Service ≤ 10-year

10-year < Level of Service

0

500

1000 m

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Flood Evaluation Study

24603-155562

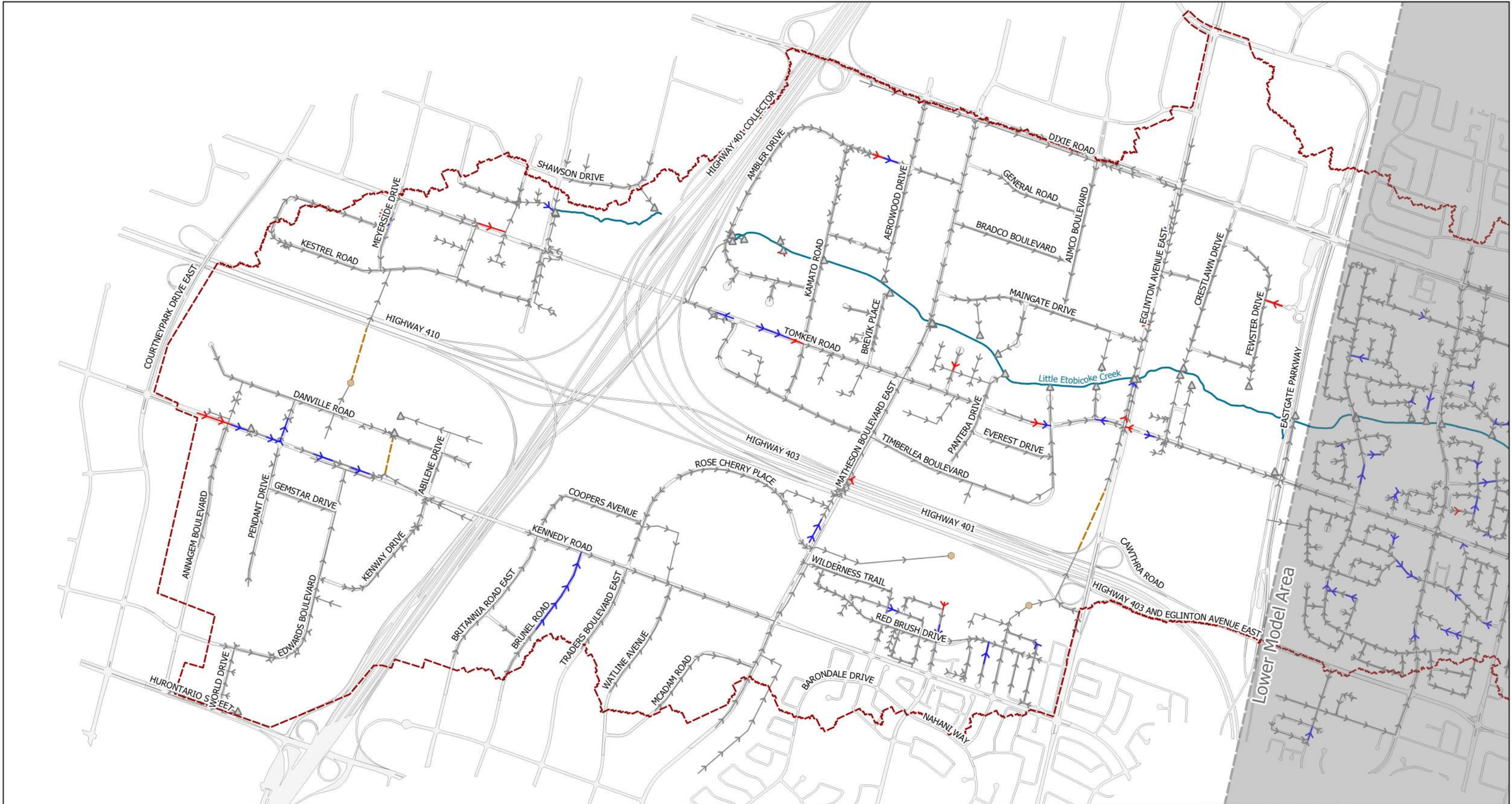
MIKE URBAN Results - Lower Model Area
Existing Conditions: Level of Service (Sewer Capacity)

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Map 1.2

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Map Date: November 27, 2020

- SWM Pond
- ▲ Outfall
- Railway
- Swale
- Watercourse
- Roads
- LEC Watershed
- Lower Model Area

Pipe Flow
Design Storm Flow Relative to Sewer Capacity (2-year)
→ Pipe flow is below capacity (<80%)
→ Pipe flow is at capacity (80 - 120%)
→ Pipe flow is over capacity (>120%)



This drawing must be used in conjunction with the attached memorandum, 'Progress Report #5 and #6: FLOOD REMEDIATION MODELLING AND ASSESSMENT' (November 2020) and is subject to the same limitations and conditions stated in the memorandum.



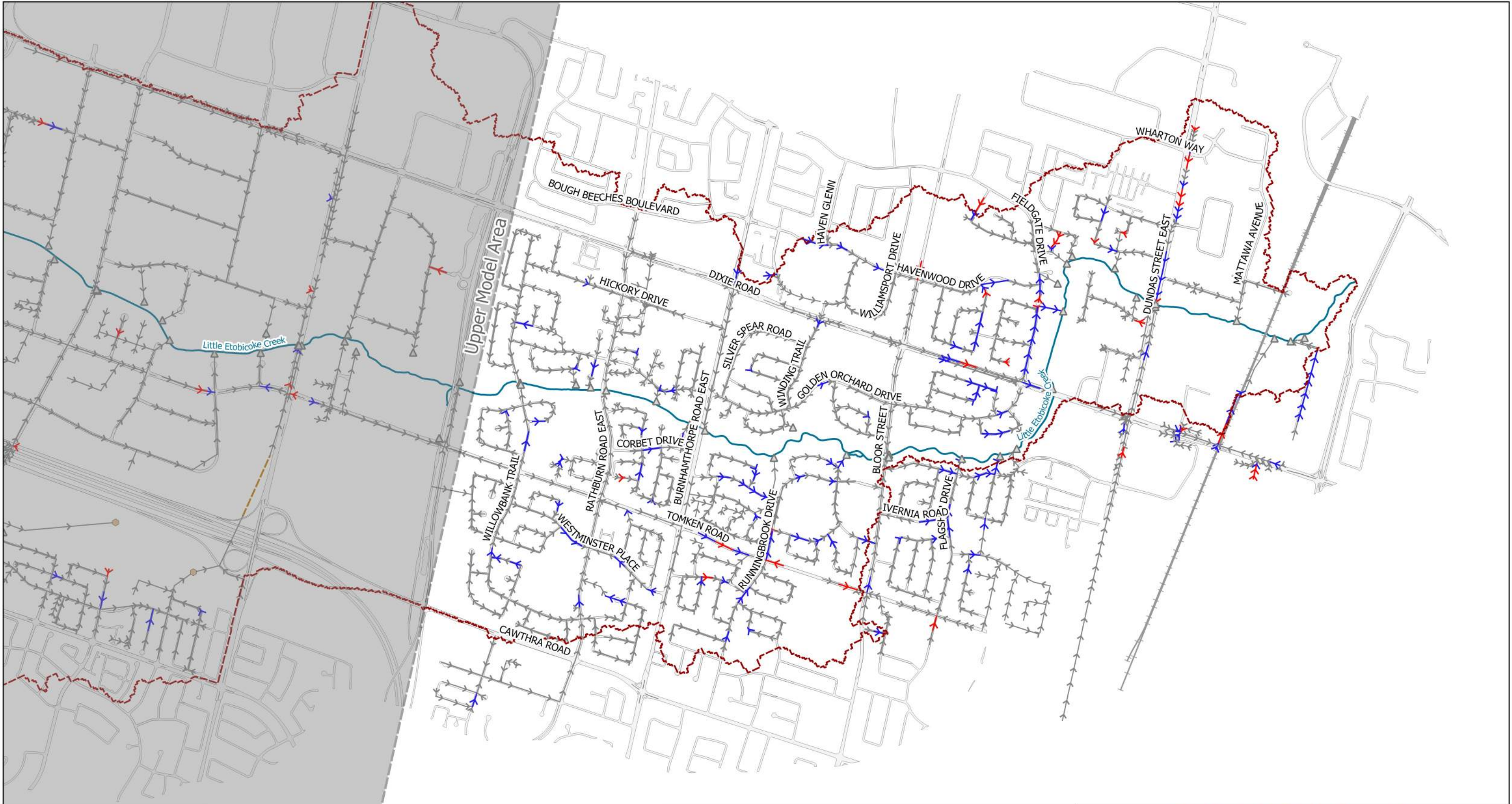
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Flood Evaluation Study

24603-155562

MIKE URBAN Results - Upper Model Area
Existing Conditions (2-year): Sewer Capacity

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Map 1.3



Map Date: November 27, 2020

- SWM Pond
- Outfall
- Railway
- Swale
- Watercourse
- Roads
- LEC Watershed
- Upper Model Area

Pipe Flow
Design Storm Flow Relative to Sewer Capacity (2-year)

- Pipe flow is below capacity (<80%)
- Pipe flow is at capacity (80 - 120%)
- Pipe flow is over capacity (>120%)



Little Etobicoke Creek Phase 2
Flood Evaluation Study

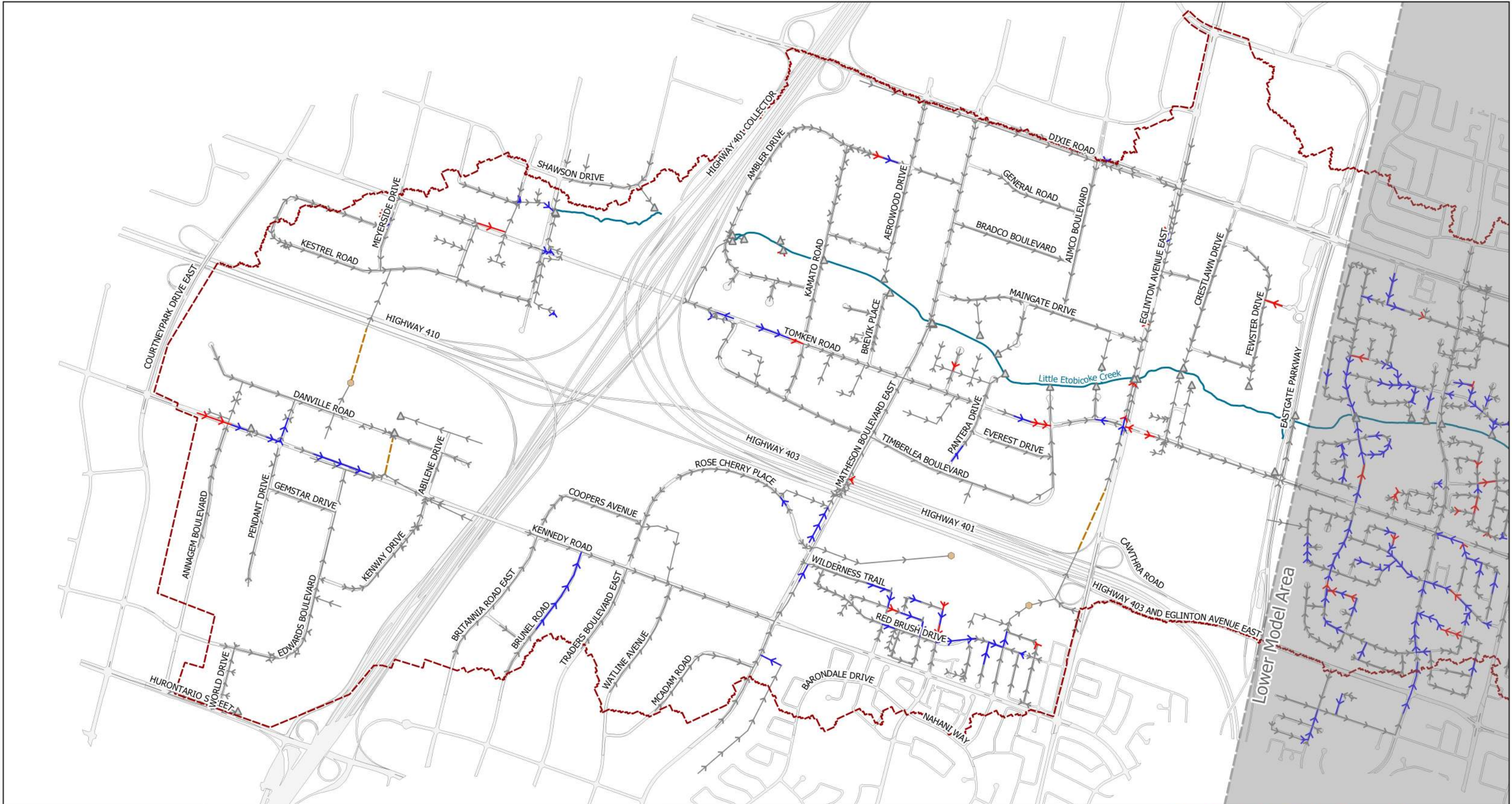
24603-155562

MIKE URBAN Results - Lower Model Area
Existing Conditions (2-year): Sewer Capacity

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Map 1.4

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Map Date: November 27, 2020

SWM Pond

Outfall

Railway

Swale

Watercourse

Roads

LEC Watershed

Lower Model Area

Pipe Flow

Design Storm Flow Relative to Sewer Capacity (5-year)

Pipe flow is below capacity (<80%)

Pipe flow is at capacity (80 - 120%)

Pipe flow is over capacity (>120%)

0

500

1000 m

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Little Etobicoke Creek Phase 2
Flood Evaluation Study

24603-155562

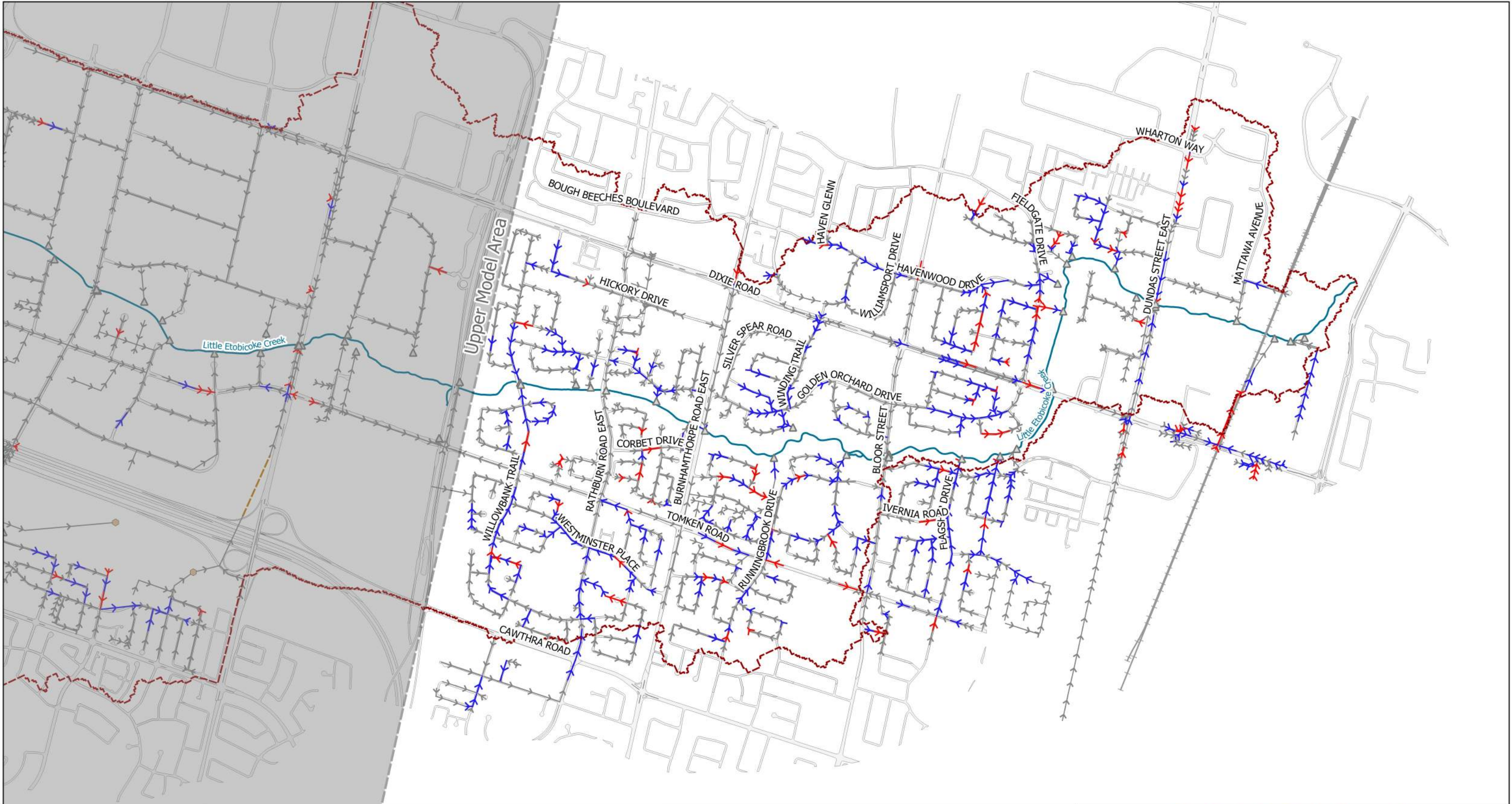
MIKE URBAN Results - Upper Model Area
Existing Conditions (5-year): Sewer Capacity

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Map 1.5

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Map Date: November 27, 2020

SWM Pond

Outfall

Railway

Swale

Watercourse

Roads

LEC Watershed

Upper Model Area

Pipe Flow

Design Storm Flow Relative to Sewer Capacity (5-year)

Pipe flow is below capacity (<80%)

Pipe flow is at capacity (80 - 120%)

Pipe flow is over capacity (>120%)

0

500

1000 m

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Flood Evaluation Study

24603-155562

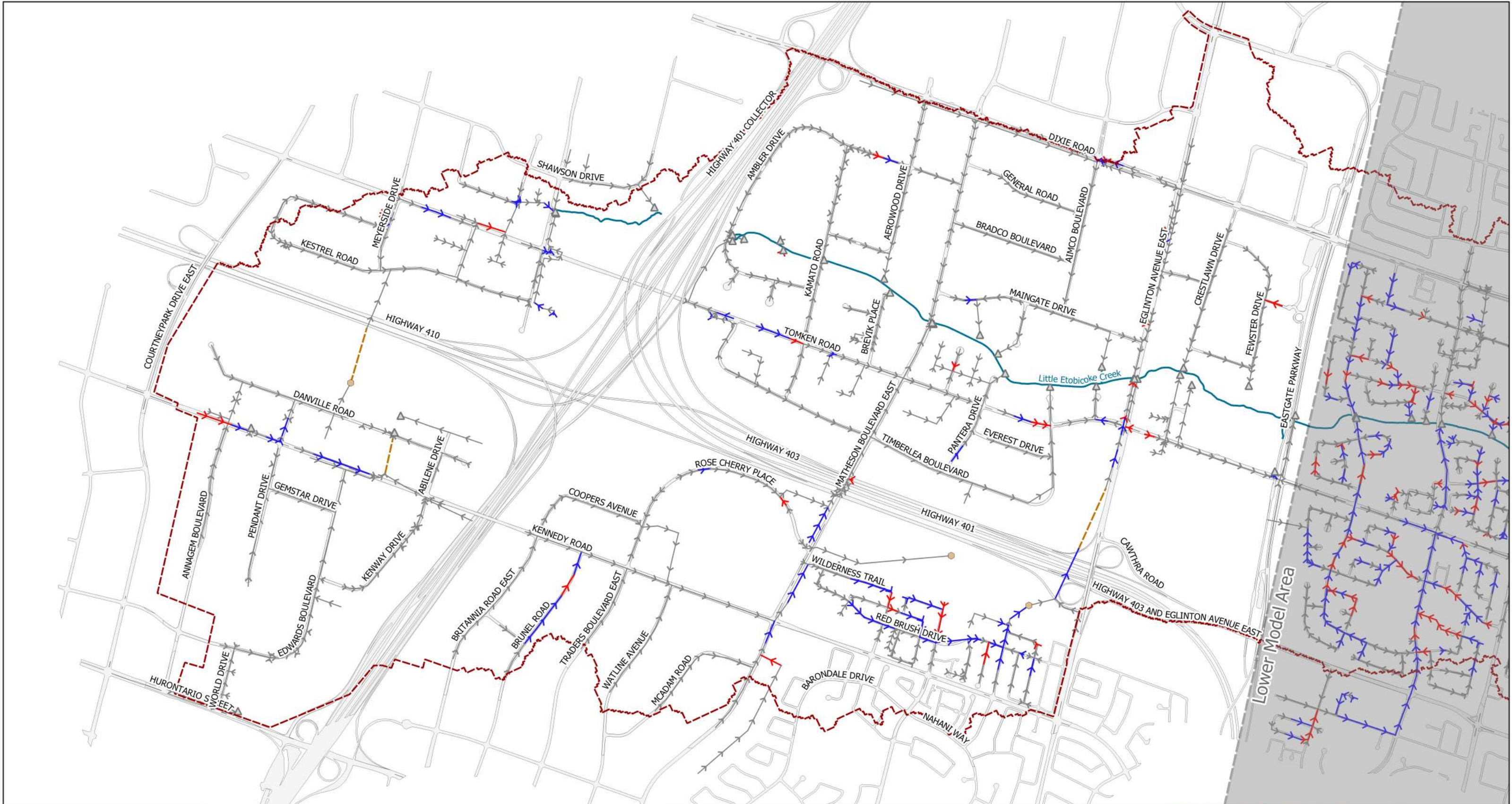
MIKE URBAN Results - Lower Model Area
Existing Conditions (5-year): Sewer Capacity

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Map 1.6

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Map Date: November 27, 2020

SWM Pond

Outfall

Railway

Swale

Watercourse

Roads

LEC Watershed

Lower Model Area

Pipe flow is below capacity (<80%)

Pipe flow is at capacity (80 - 120%)

Pipe flow is over capacity (>120%)

Pipe flow is below capacity (<80%)

Pipe flow is at capacity (80 - 120%)

Pipe flow is over capacity (>120%)

Pipe flow is below capacity (<80%)

Pipe flow is at capacity (80 - 120%)

Pipe flow is over capacity (>120%)

North arrow

0

500

1000 m

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Little Etobicoke Creek Phase 2
Flood Evaluation Study

24603-155562

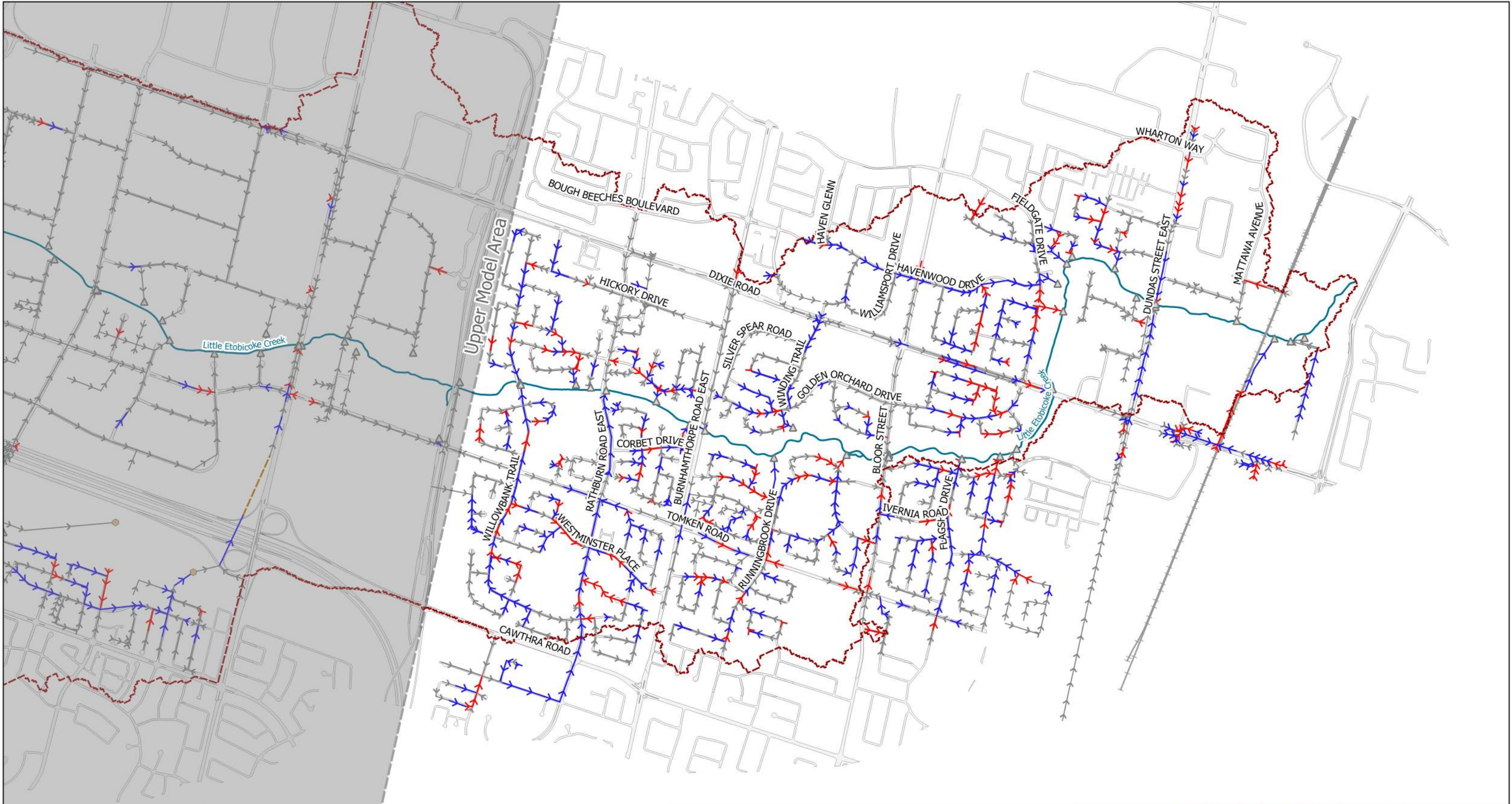
MIKE URBAN Results - Upper Model Area
Existing Conditions (10-year): Sewer Capacity

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Map 1.7

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Map Date: November 27, 2020

SWM Pond

Outfall

Railway

Swale

Watercourse

Roads

LEC Watershed

Upper Model Area

Pipe Flow

Design Storm Flow Relative to Sewer Capacity (10-year)

Pipe flow is below capacity (<80%)

Pipe flow is at capacity (80 - 120%)

Pipe flow is over capacity (>120%)

0 500 1000 m

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Flood Evaluation Study

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MIKE URBAN Results - Lower Model Area
Existing Conditions (10-year): Sewer Capacity

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Map 1.8

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Map Date: November 27, 2020

Railway

Watercourse

Roads

LEC Watershed

Lower Model Area

Level of Service Manholes

Level of Service \leq 2-year

2-year < Level of Service \leq 5-year

5-year < Level of Service \leq 10-year

10-year < Level of Service

0

500

1000 m

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Little Etobicoke Creek Phase 2
Flood Evaluation Study

24603-155562

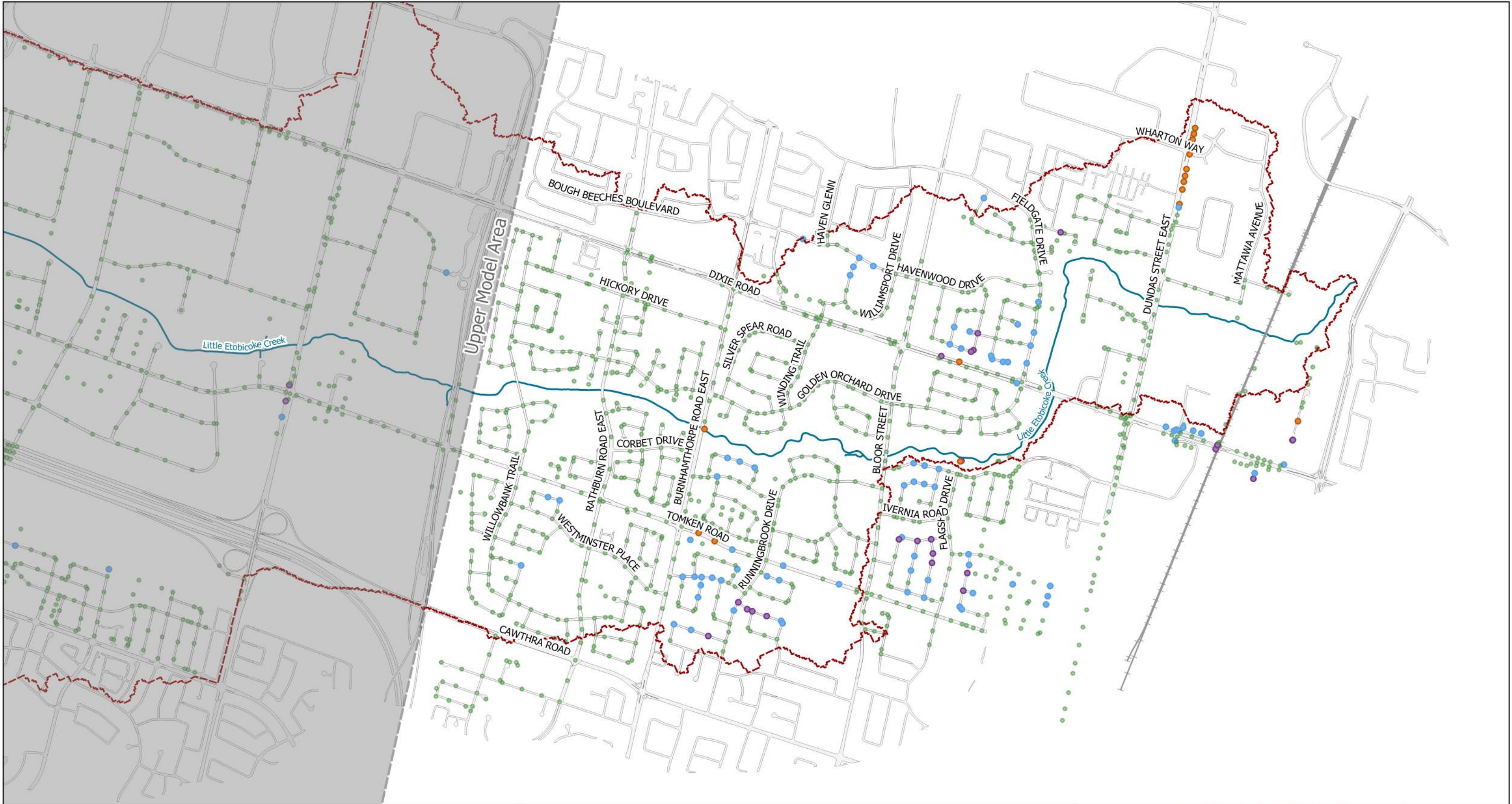
MIKE URBAN Results - Upper Model Area
Existing Conditions: Level of Service (HGL)

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Map 1.9

T:\24603 - Little EtobicokeCr_Flood\531\05 Analysis\GIS\Level of Service\LOS\24603 Level of Service_V2_20200615.qgs



Map Date: November 27, 2020

Railway

Watercourse

Roads

LEC Watershed

Upper Model Area

Level of Service Manholes

Level of Service \leq 2-year

2-year $<$ Level of Service \leq 5-year

5-year $<$ Level of Service \leq 10-year

10-year $<$ Level of Service

05001000 m

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Little Etobicoke Creek Phase 2
Flood Evaluation Study

24603-155562

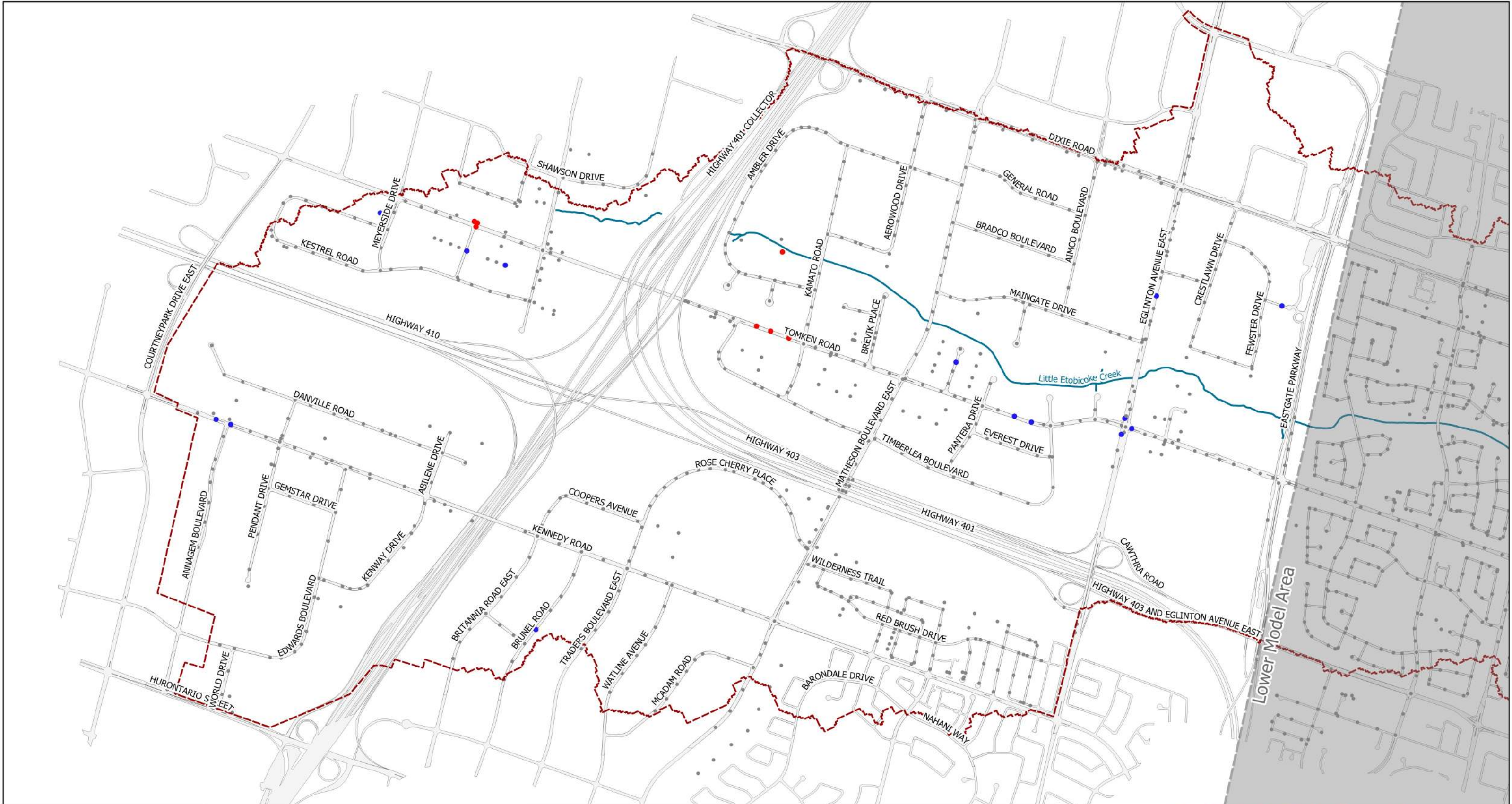
MIKE URBAN Results - Lower Model Area
Existing Conditions: Level of Service (HGL)

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Map 1.10

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Map Date: November 27, 2020

Railway

Watercourse

Roads

LEC Watershed

Lower Model Area

Manholes

Design Storm Hydraulic Gradeline (2-year)

Manhole surcharged to ground

Less than 1.0 m freeboard to ground

More than 1.0 m freeboard to ground

0

500

1000 m

This drawing must be used in conjunction with the attached memorandum, 'Progress Report #5 and #6: FLOOD REMEDIATION MODELLING AND ASSESSMENT' (November 2020) and is subject to the same limitations and conditions stated in the memorandum.

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Little Etobicoke Creek Phase 2
Flood Evaluation Study

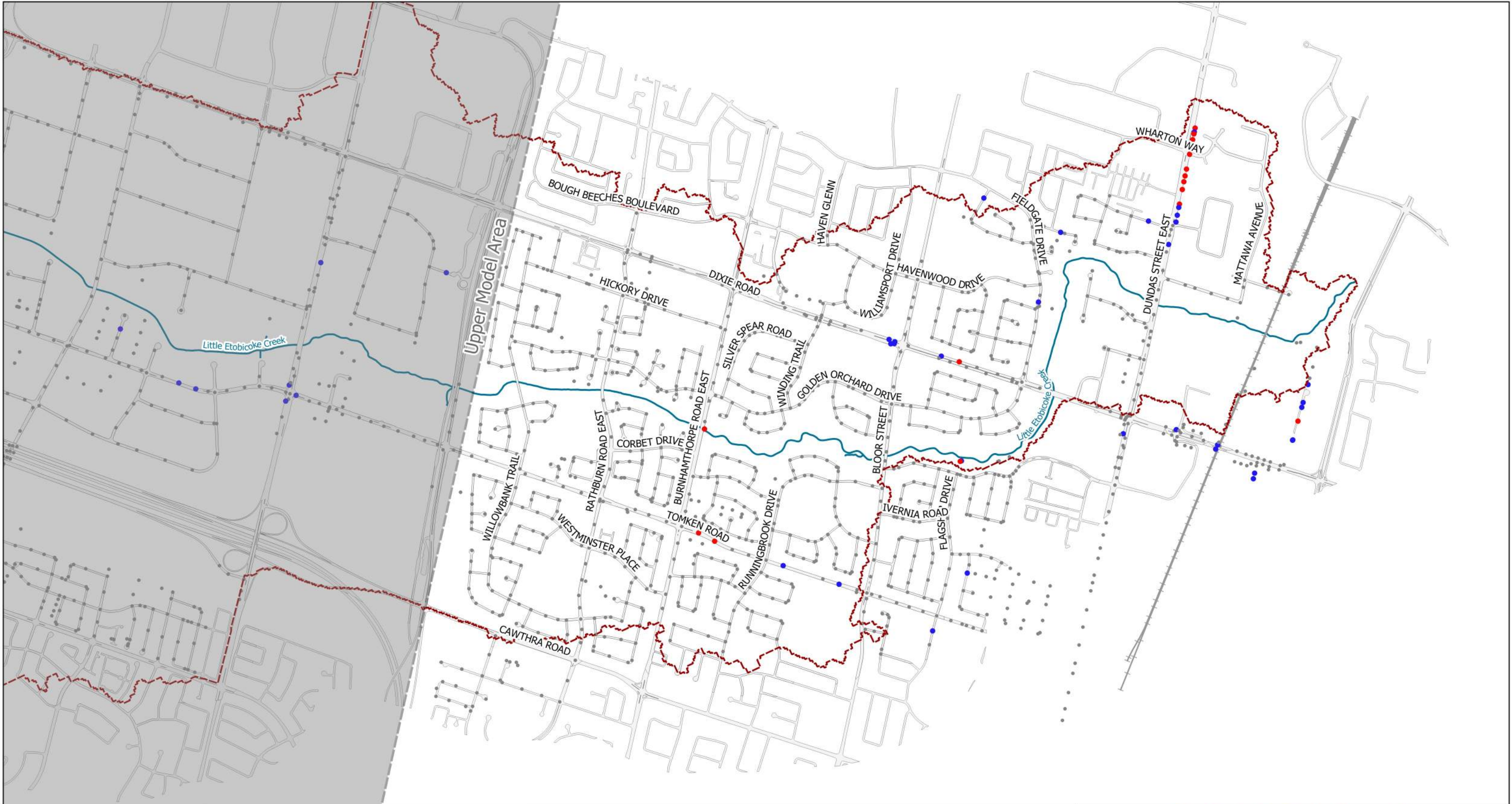
24603-155562

MIKE URBAN Results - Upper Model Area
Existing Conditions (2-year): HGL

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Map 1.11



Map Date: November 27, 2020

Railway

Watercourse

Roads

LEC Watershed

Upper Model Area

Manholes

Design Storm Hydraulic Gradeline (2-year)

Manhole surcharged to ground

Less than 1.0 m freeboard to ground

More than 1.0 m freeboard to ground

05001000 m

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Little Etobicoke Creek Phase 2
Flood Evaluation Study

24603-155562

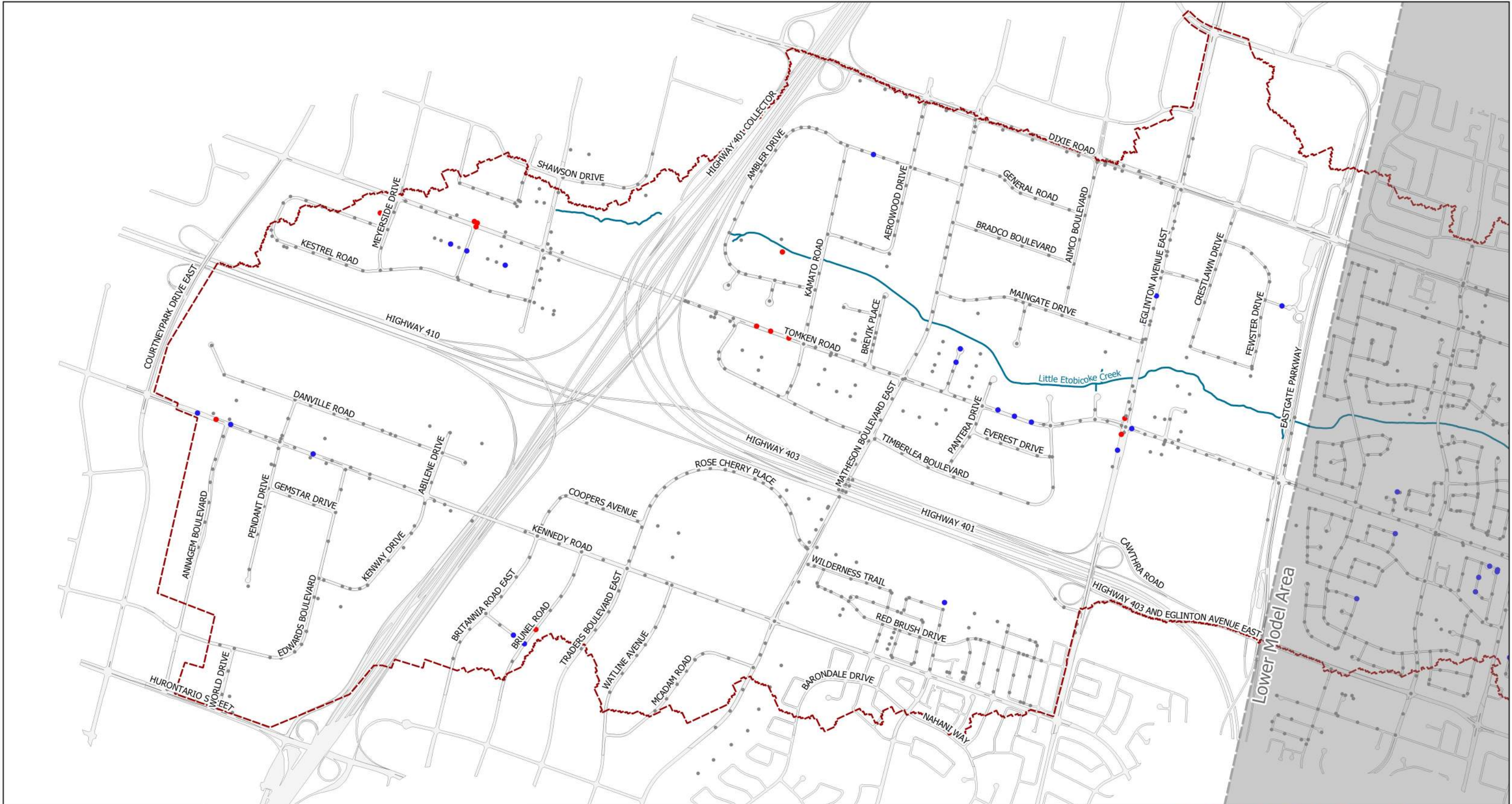
MIKE URBAN Results - Lower Model Area
Existing Conditions (2-year): HGL

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Map 1.12

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Map Date: November 27, 2020

Railway

Watercourse

Roads

LEC Watershed

Lower Model Area

Manholes

Design Storm Hydraulic Gradeline (5-year)

Manhole surcharged to ground

Less than 1.0 m freeboard to ground

More than 1.0 m freeboard to ground

0

500

1000 m

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Little Etobicoke Creek Phase 2
Flood Evaluation Study

24603-155562

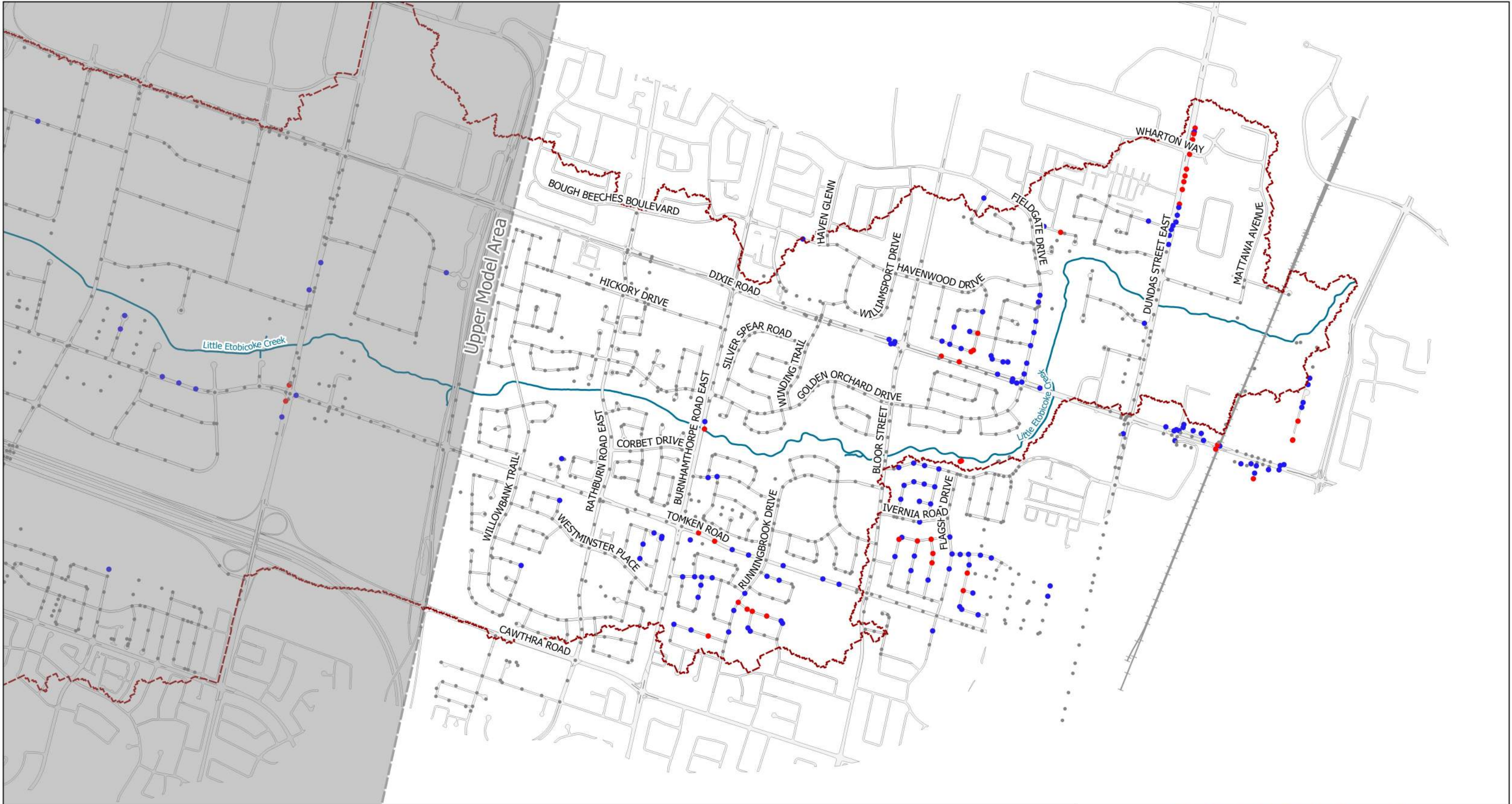
MIKE URBAN Results - Upper Model Area
Existing Conditions (5-year): HGL

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Map 1.13

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Map Date: November 27, 2020

Railway

Watercourse

Roads

LEC Watershed

Upper Model Area

Manholes

Design Storm Hydraulic Gradeline (5-year)

Manhole surcharged to ground

Less than 1.0 m freeboard to ground

More than 1.0 m freeboard to ground

0

500

1000 m

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Little Etobicoke Creek Phase 2
Flood Evaluation Study

24603-155562

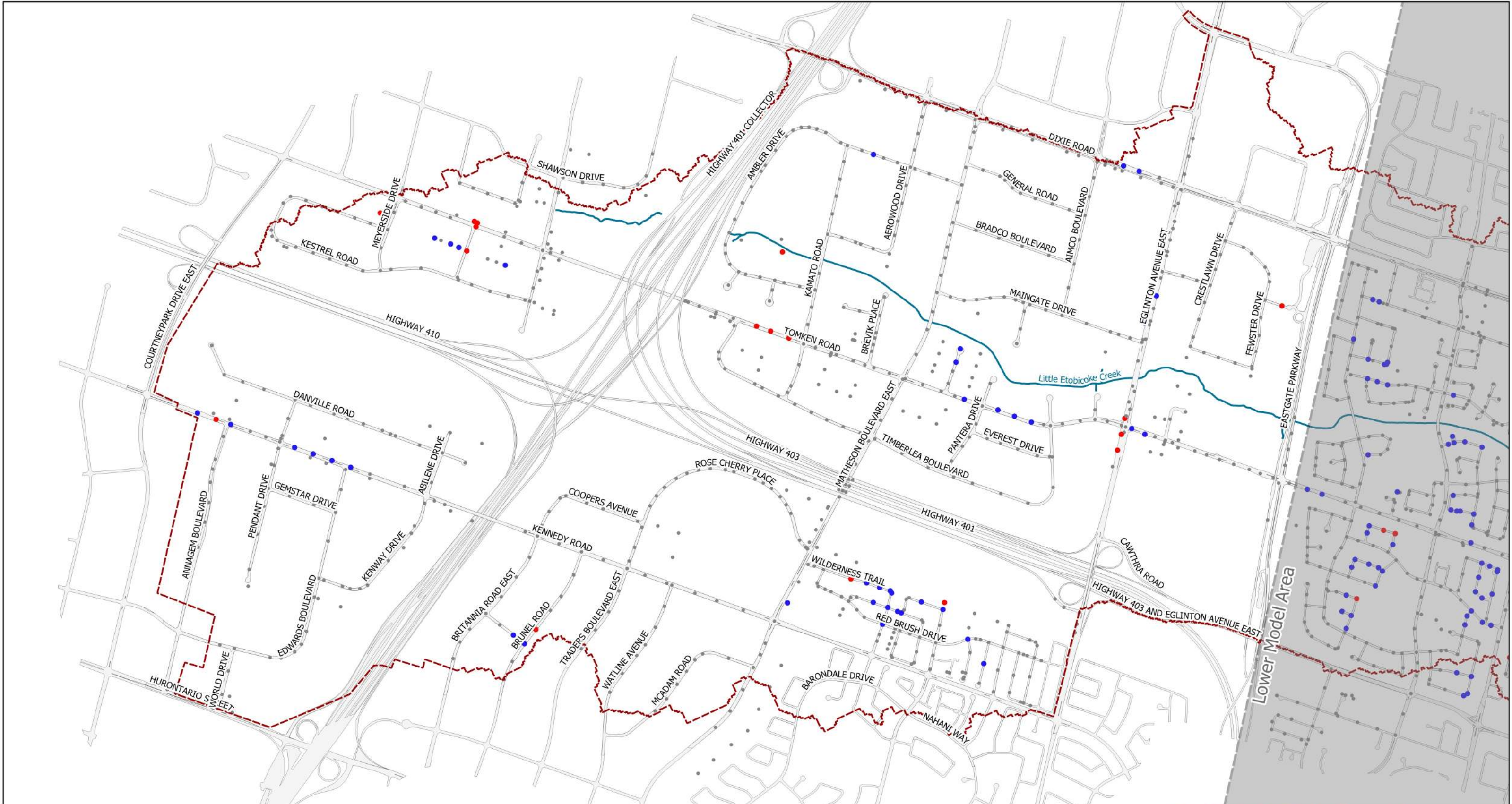
MIKE URBAN Results - Lower Model Area
Existing Conditions (5-year): HGL

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Map 1.14

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Map Date: November 27, 2020

Railway

Watercourse

Roads

LEC Watershed

Lower Model Area

Manholes

Design Storm Hydraulic Gradeline (10-year)

Manhole surcharged to ground

Less than 1.0 m freeboard to ground

More than 1.0 m freeboard to ground

0

500

1000 m

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Little Etobicoke Creek Phase 2
Flood Evaluation Study

24603-155562

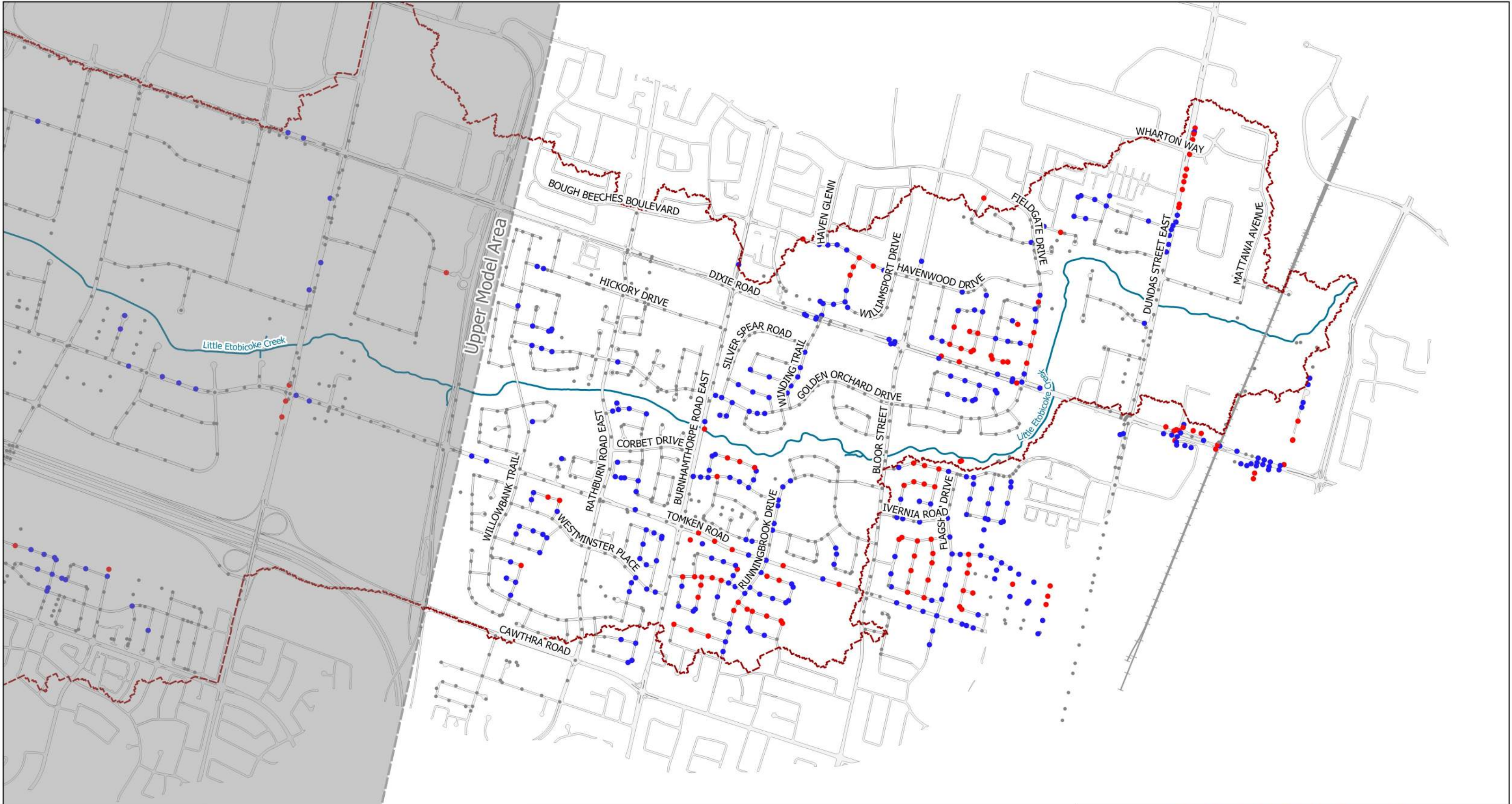
MIKE URBAN Results - Upper Model Area
Existing Conditions (10-year): HGL

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Map 1.15

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Map Date: November 27, 2020

Railway

Watercourse

Roads

LEC Watershed

Upper Model Area

Manholes

Design Storm Hydraulic Gradeline (10-year)

Manhole surcharged to ground

Less than 1.0 m freeboard to ground

More than 1.0 m freeboard to ground

0

500

1000 m

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Little Etobicoke Creek Phase 2

Flood Evaluation Study

24603-155562

MIKE URBAN Results - Lower Model Area

Existing Conditions (10-year): HGL

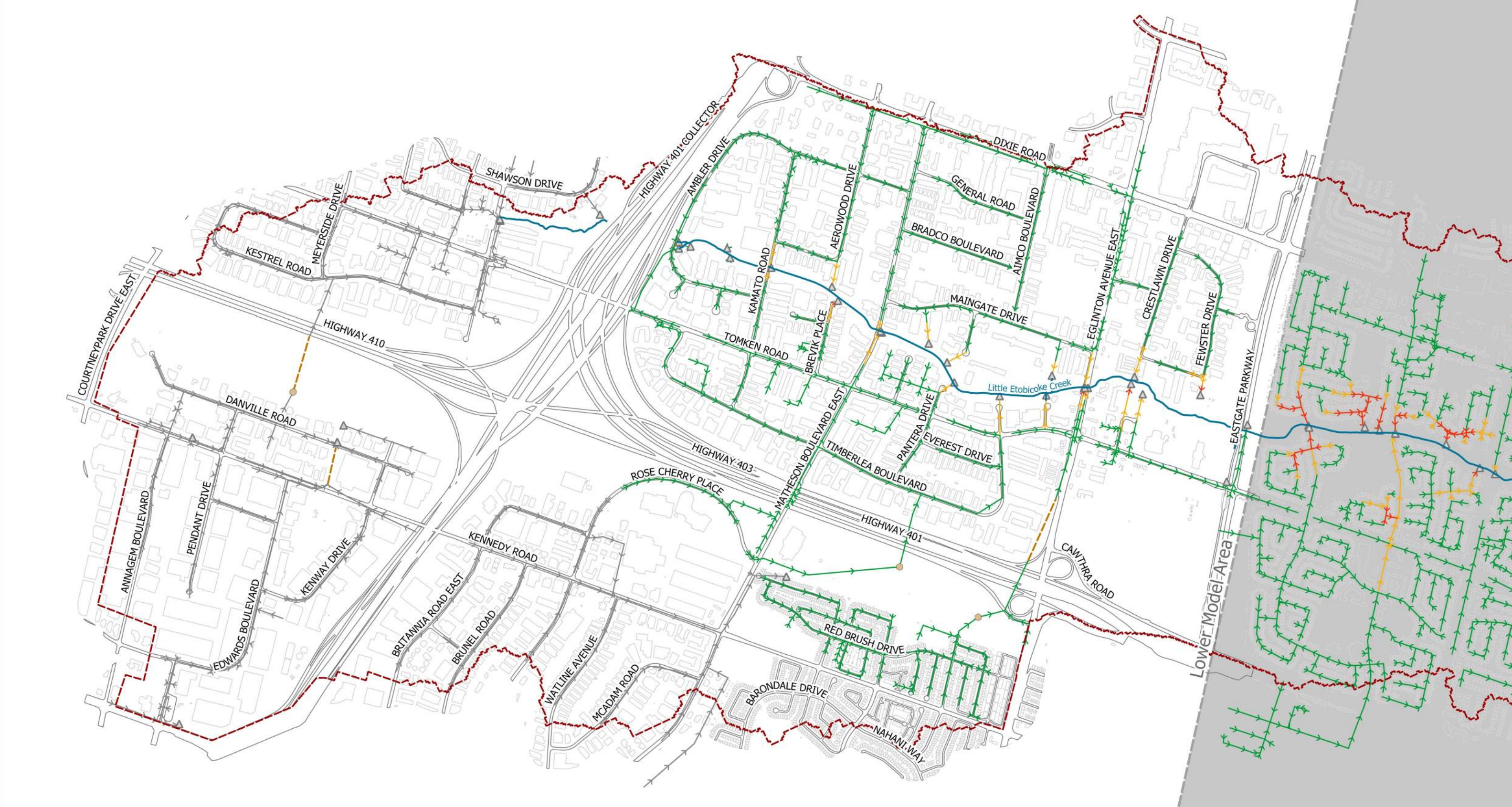
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Map 1.16

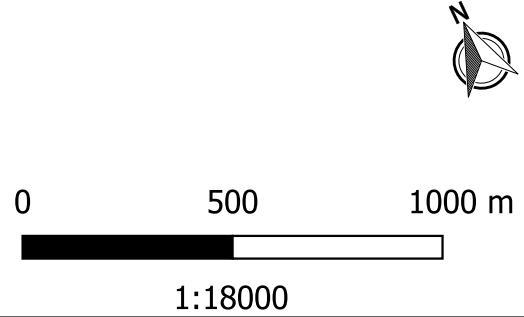
T:\24603 - Little EtobicokeCr_Flood\531\05 Analysis\GIS\Level of Service\LOS\24603 Level of Service_V2_20200615.qgs



Map Date: October 27, 2020

This drawing must be used in conjunction with the attached report, Progress Report #5 and #6 Flood Remediation Modelling and Assessment Little Etobicoke Creek Flood Evaluation Study, (November 2020) and is subject to the same limitations and conditions stated in the report.

- | | | |
|------------|--------------------|---|
| ● SWM Pond | — Watercourse | Riverine Impacts |
| ▲ Outlet | □ Buildings | 2-year Event |
| — Roads | ▬ LEC Watershed | → No Riverine Flooding Impacts |
| — Railway | ■ Lower Model Area | → Riverine Flooding Impacts (Pipe Partially Full) |
| — Swale | | → Riverine Flooding Impacts (Pipe Full) |
| | | → Unable to Evaluate |



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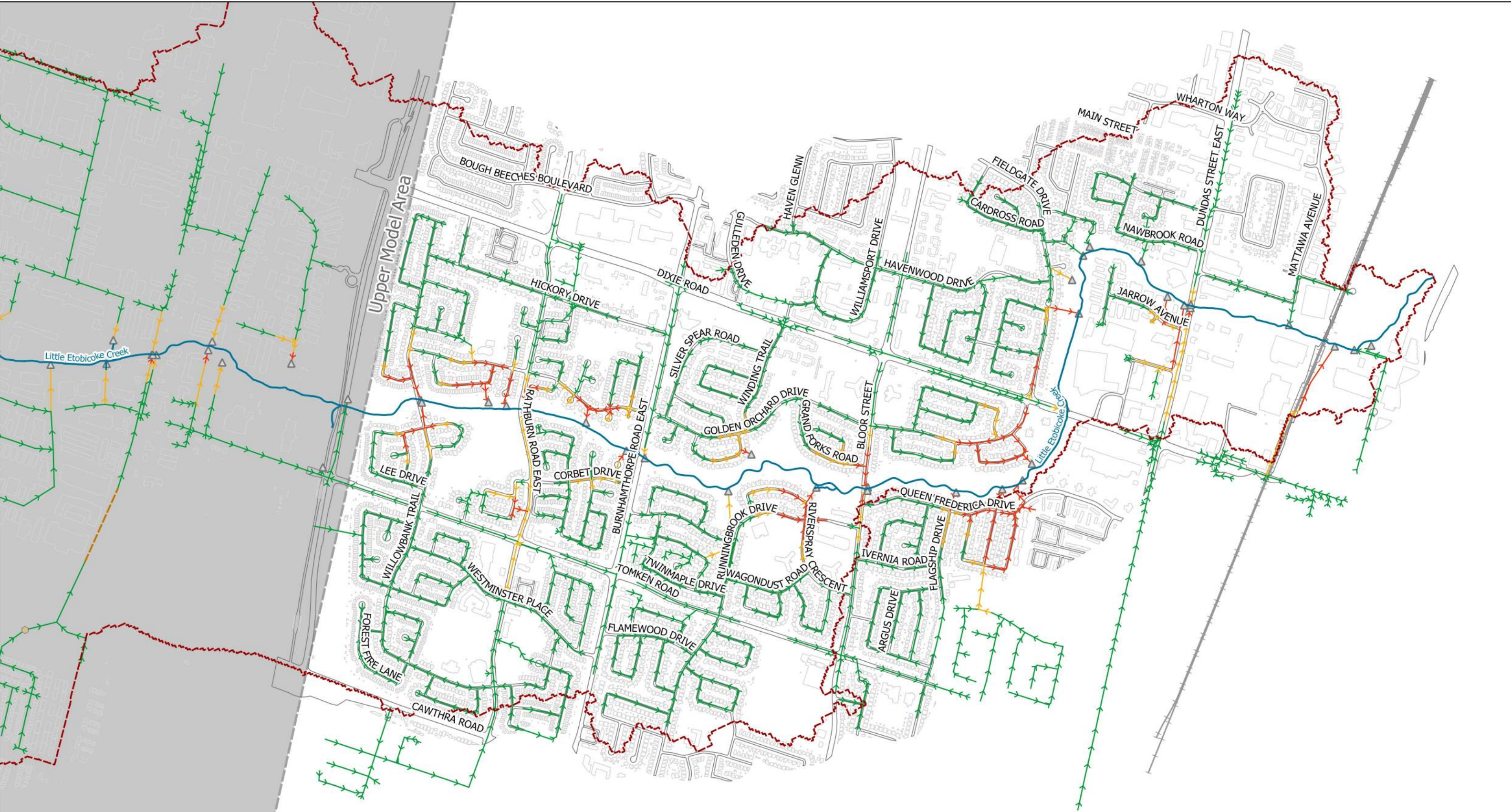
Little Etobicoke Creek Phase 2
Flood Evaluation Study

Project #24603

Upper Model Area
Existing Conditions (2-year): Riverine Impacts

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P. Bishop
A. McKay
Map 2.1



Map Date: October 27, 2020

- | | | |
|------------|--------------------|---|
| ● SWM Pond | — Watercourse | Riverine Impacts |
| ▲ Outlet | □ Buildings | 2-year Event |
| — Roads | ▭ LEC Watershed | → No Riverine Flooding Impacts |
| — Railway | ■ Upper Model Area | → Riverine Flooding Impacts (Pipe Partially Full) |
| — Swale | | → Riverine Flooding Impacts (Pipe Full) |
| | | → Unable to Evaluate |

This drawing must be used in conjunction with the attached report, Progress Report #5 and #6 Flood Remediation Modelling and Assessment Little Etobicoke Creek Flood Evaluation Study, (November 2020) and is subject to the same limitations and conditions stated in the report.

T:\24603 - Little EtobicokeCr_Flood\531\05 Analysis\GIS\Riverine Flooding Impact Assessment\Riverine Flooding Impact QGIS V1.qgz



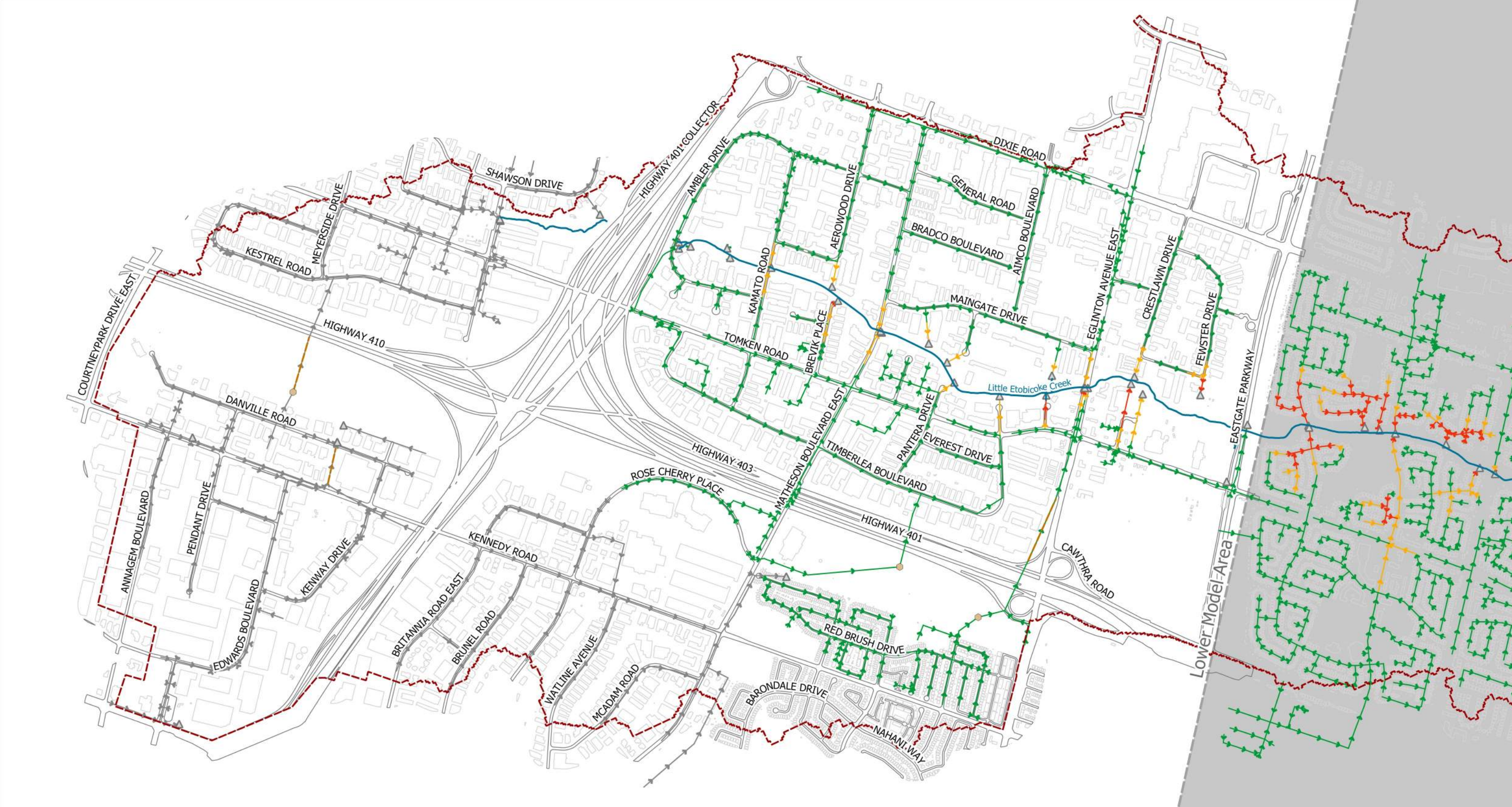
Little Etobicoke Creek Phase 2
Flood Evaluation Study

Project #24603

Lower Model Area
Existing Conditions (2-year): Riverine Impacts

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P. Bishop
A. McKay
Map 2.2



Map Date: October 27, 2020

SWM Pond

Outlet

Roads

Railway

Swale

Watercourse

Buildings

LEC Watershed

Lower Model Area

Riverine Impacts

5-year Event

No Riverine Flooding Impacts

Riverine Flooding Impacts (Pipe Partially Full)

Riverine Flooding Impacts (Pipe Full)

Unable to Evaluate

05001000 m

1:18000

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Little Etobicoke Creek Phase 2
Flood Evaluation Study

Project #24603

Upper Model Area

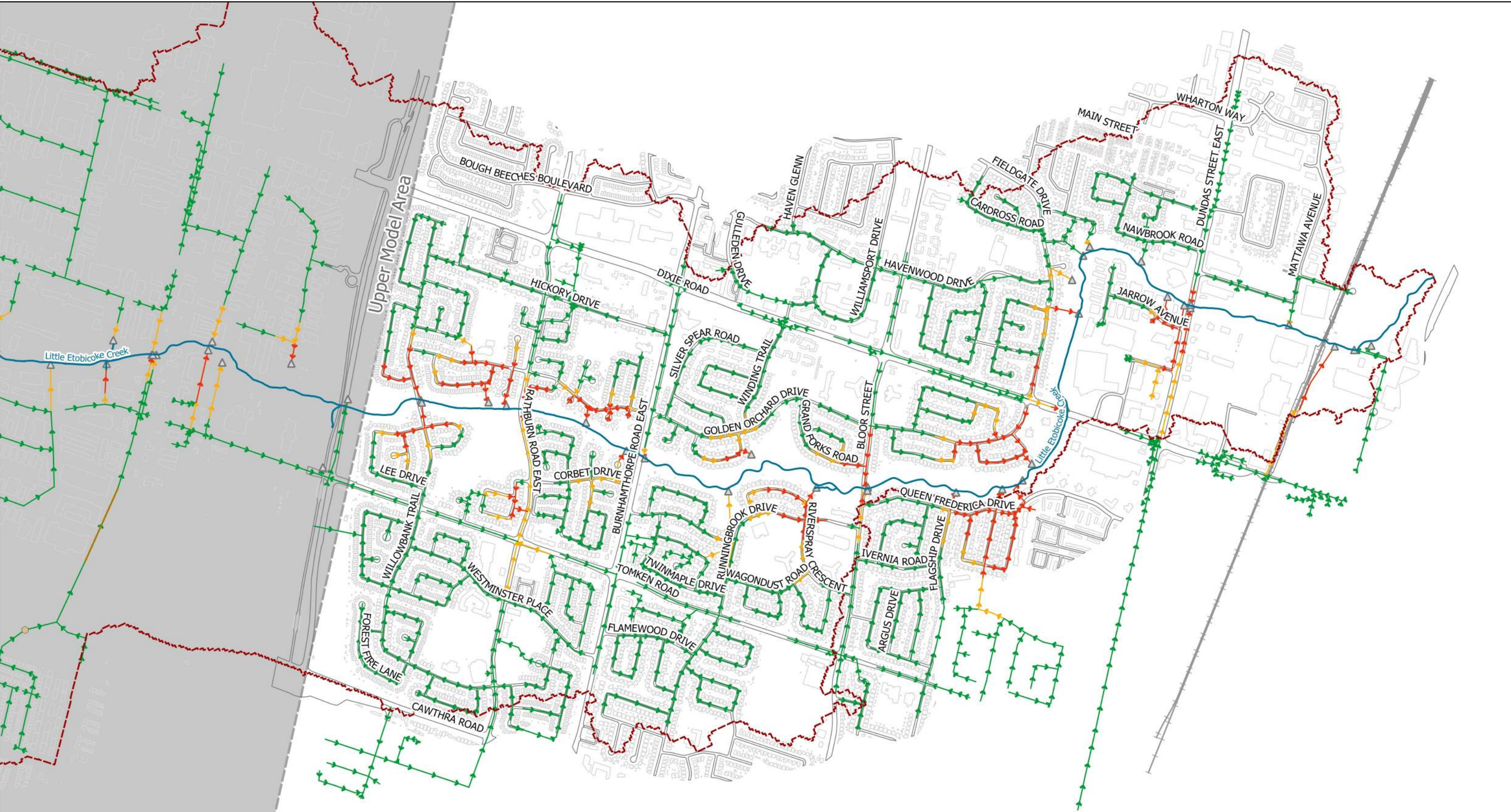
Existing Conditions (5-year): Riverine Impacts

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A. McKay

Map 2.3

T:\24603 - Little EtobicokeCr_Flood\531\05 Analysis\GIS\Riverine Flooding Impact Assessment\Riverine Flooding Impact QGIS V1.qgz

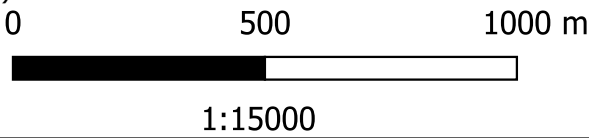


Map Date: October 27, 2020

- SWM Pond
- ▲ Outlet
- Roads
- Railway
- Swale
- Watercourse
- Buildings
- LEC Watershed
- Upper Model Area

Riverine Impacts

- 5-year Event
- No Riverine Flooding Impacts
- Riverine Flooding Impacts (Pipe Partially Full)
- Riverine Flooding Impacts (Pipe Full)
- Unable to Evaluate



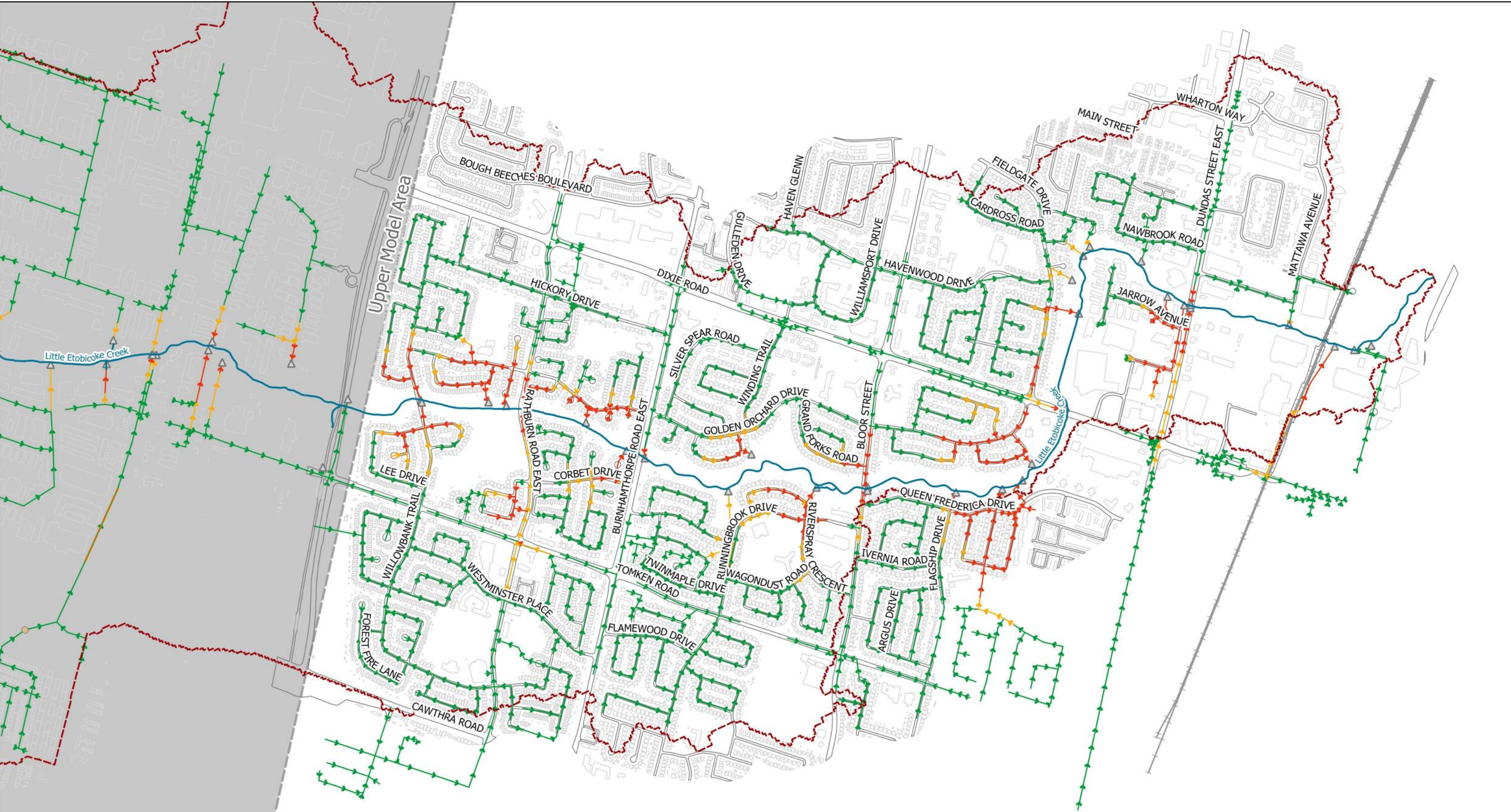
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Flood Evaluation Study

Project #24603

Lower Model Area
Existing Conditions (5-year): Riverine Impacts

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P. Bishop
A. McKay
Map 2.4

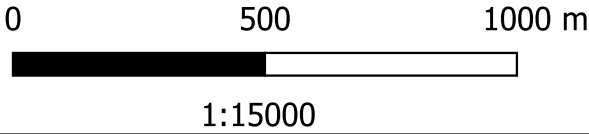


Map Date: October 27, 2020

- | | |
|------------|--------------------|
| ● SWM Pond | — Watercourse |
| ▲ Outlet | □ Buildings |
| — Roads | ▭ LEC Watershed |
| — Railway | ■ Upper Model Area |
| — Swale | |

Riverine Impacts

- | |
|---|
| — 10-year Event |
| — No Riverine Flooding Impacts |
| — Riverine Flooding Impacts (Pipe Partially Full) |
| — Riverine Flooding Impacts (Pipe Full) |
| — Unable to Evaluate |



Little Etobicoke Creek Phase 2
Flood Evaluation Study

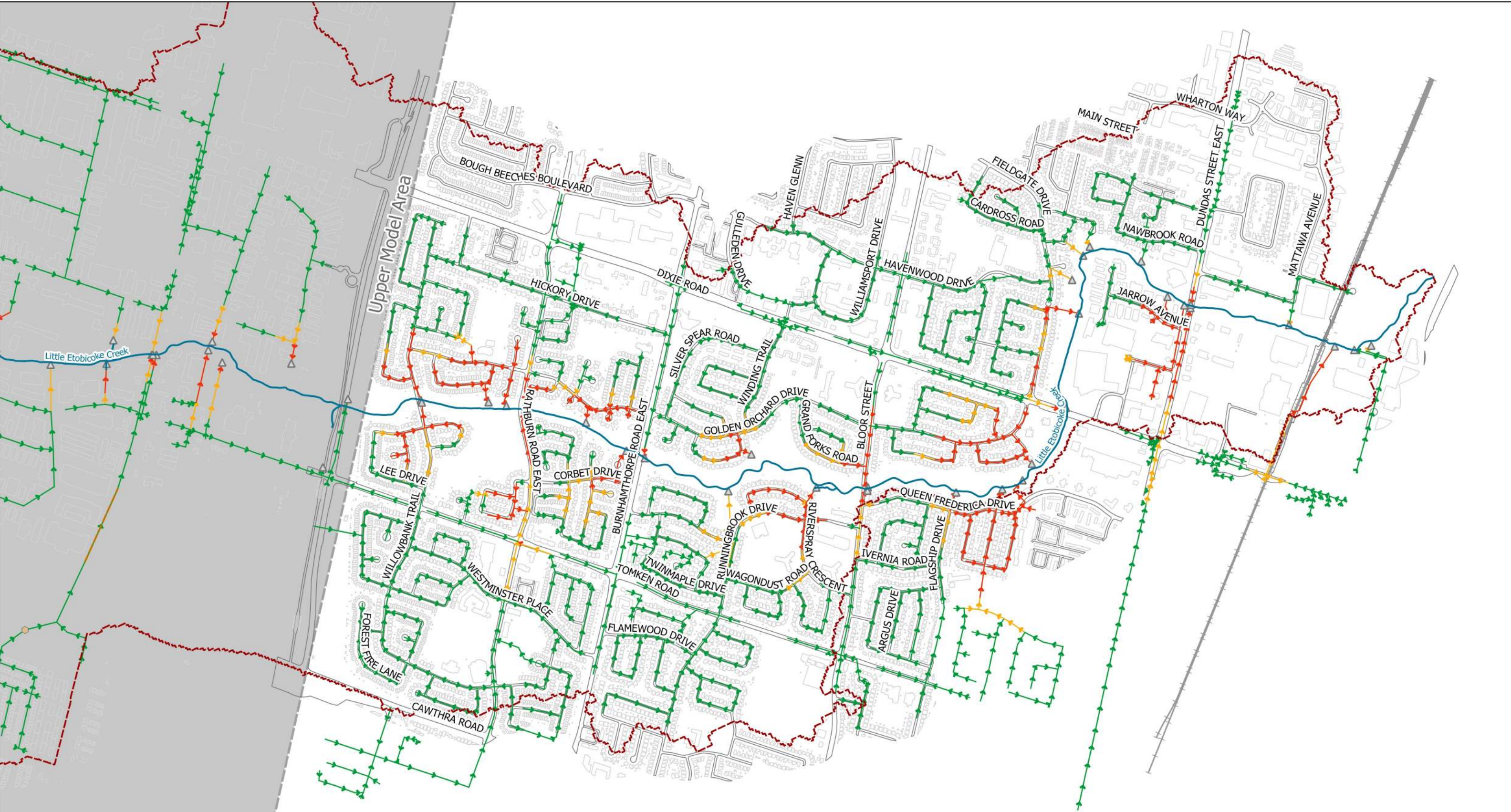
Project #24603

Lower Model Area
Existing Conditions (10-year): Riverine Impacts

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P. Bishop
A. McKay
Map 2.6

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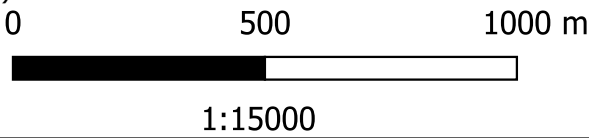


Map Date: October 27, 2020

- | | |
|------------|--------------------|
| ● SWM Pond | — Watercourse |
| ▲ Outlet | □ Buildings |
| — Roads | ▭ LEC Watershed |
| — Railway | ■ Upper Model Area |
| — Swale | |

Riverine Impacts

- | |
|---|
| 25-year Event |
| — No Riverine Flooding Impacts |
| — Riverine Flooding Impacts (Pipe Partially Full) |
| — Riverine Flooding Impacts (Pipe Full) |
| — Unable to Evaluate |



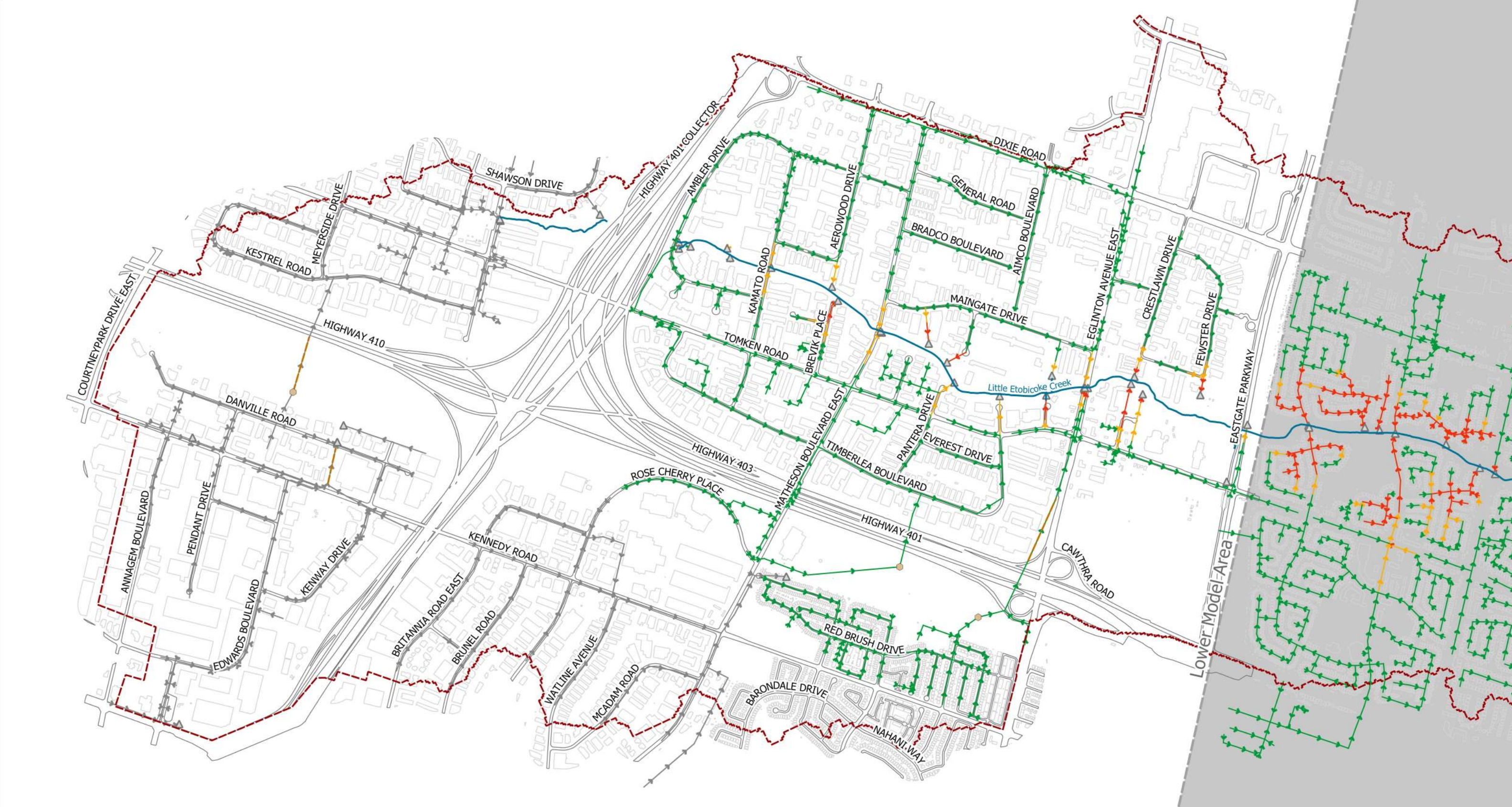
Little Etobicoke Creek Phase 2
Flood Evaluation Study

Project #24603

**Lower Model Area
Existing Conditions (25-year): Riverine Impacts**

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P. Bishop
A. McKay
Map 2.8



Map Date: October 27, 2020

- SWM Pond
- ▲ Outlet
- Roads
- Railway
- Swale
- Watercourse
- Buildings
- LEC Watershed
- Lower Model Area

- Riverine Impacts**
50-year Event
- No Riverine Flooding Impacts
 - Riverine Flooding Impacts (Pipe Partially Full)
 - Riverine Flooding Impacts (Pipe Full)
 - Unable to Evaluate



0 500 1000 m

1:18000



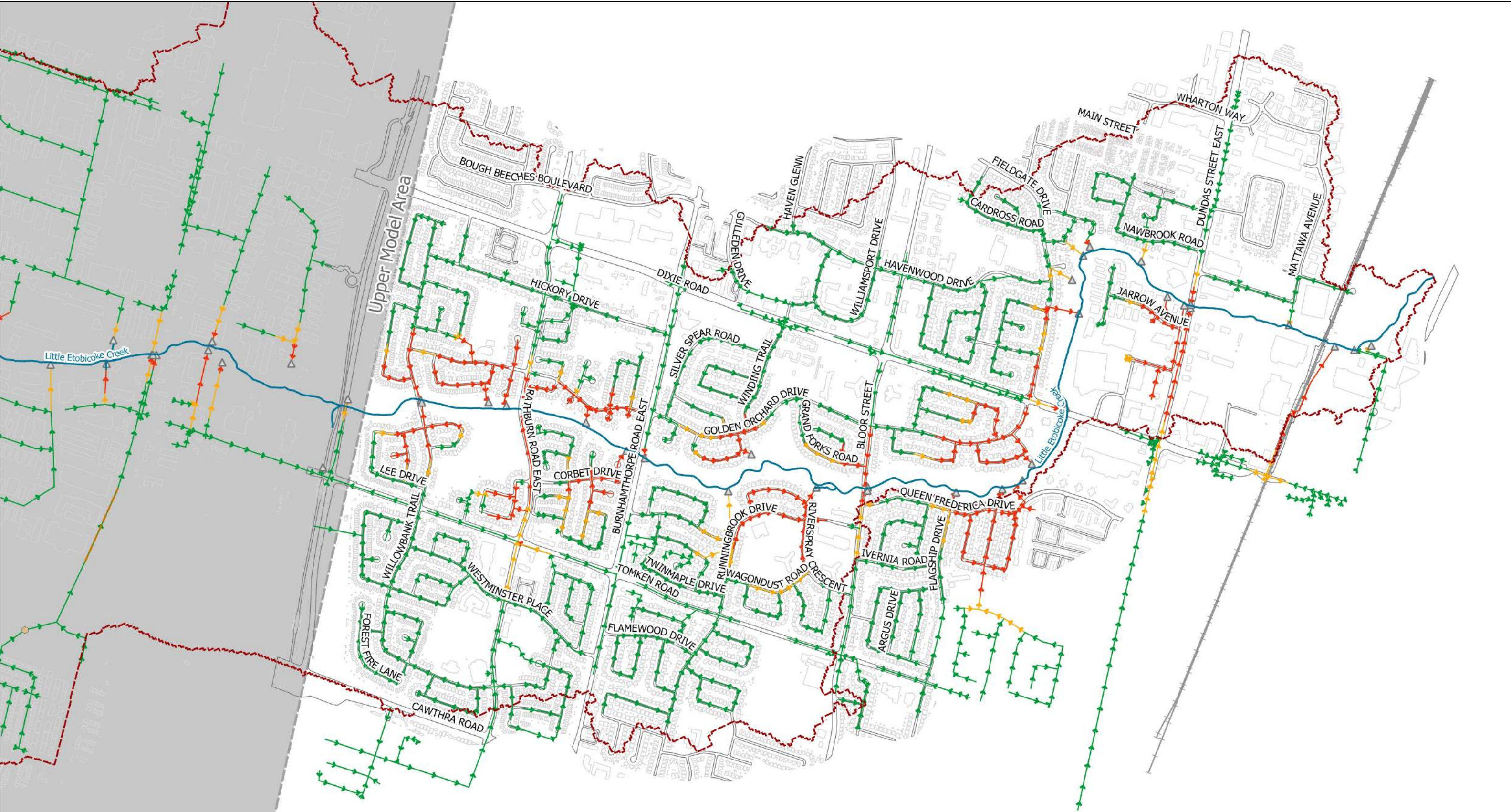
Little Etobicoke Creek Phase 2
Flood Evaluation Study

Project #24603

Upper Model Area
Existing Conditions (50-year): Riverine Impacts

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P. Bishop
A. McKay
Map 2.9

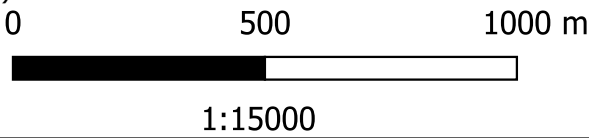


Map Date: October 27, 2020

- | | |
|------------|--------------------|
| ● SWM Pond | — Watercourse |
| ▲ Outlet | □ Buildings |
| — Roads | ▭ LEC Watershed |
| — Railway | ■ Upper Model Area |
| — Swale | |

Riverine Impacts

- | |
|---|
| 50-year Event |
| — No Riverine Flooding Impacts |
| — Riverine Flooding Impacts (Pipe Partially Full) |
| — Riverine Flooding Impacts (Pipe Full) |
| — Unable to Evaluate |



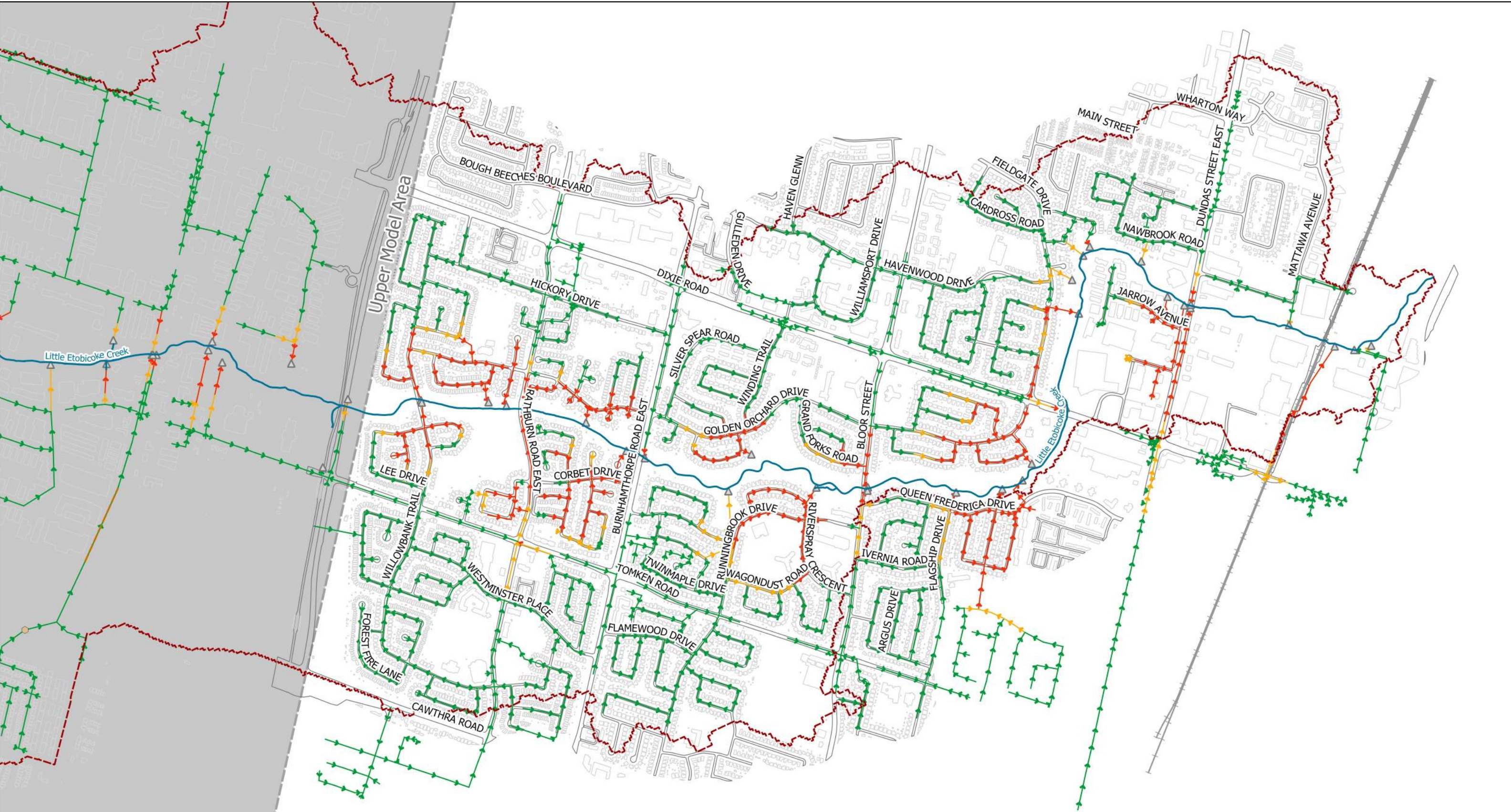
Little Etobicoke Creek Phase 2
Flood Evaluation Study

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Lower Model Area
Existing Conditions (50-year): Riverine Impacts

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P. Bishop
A. McKay
Map 2.10



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SWM Pond	Watercourse	Riverine Impacts
Outlet	Buildings	100-year Event
Roads	LEC Watershed	No Riverine Flooding Impacts
Railway	Upper Model Area	Riverine Flooding Impacts (Pipe Partially Full)
Swale		Riverine Flooding Impacts (Pipe Full)
		Unable to Evaluate

1:15000

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ENVIRONMENT & ENGINEERING

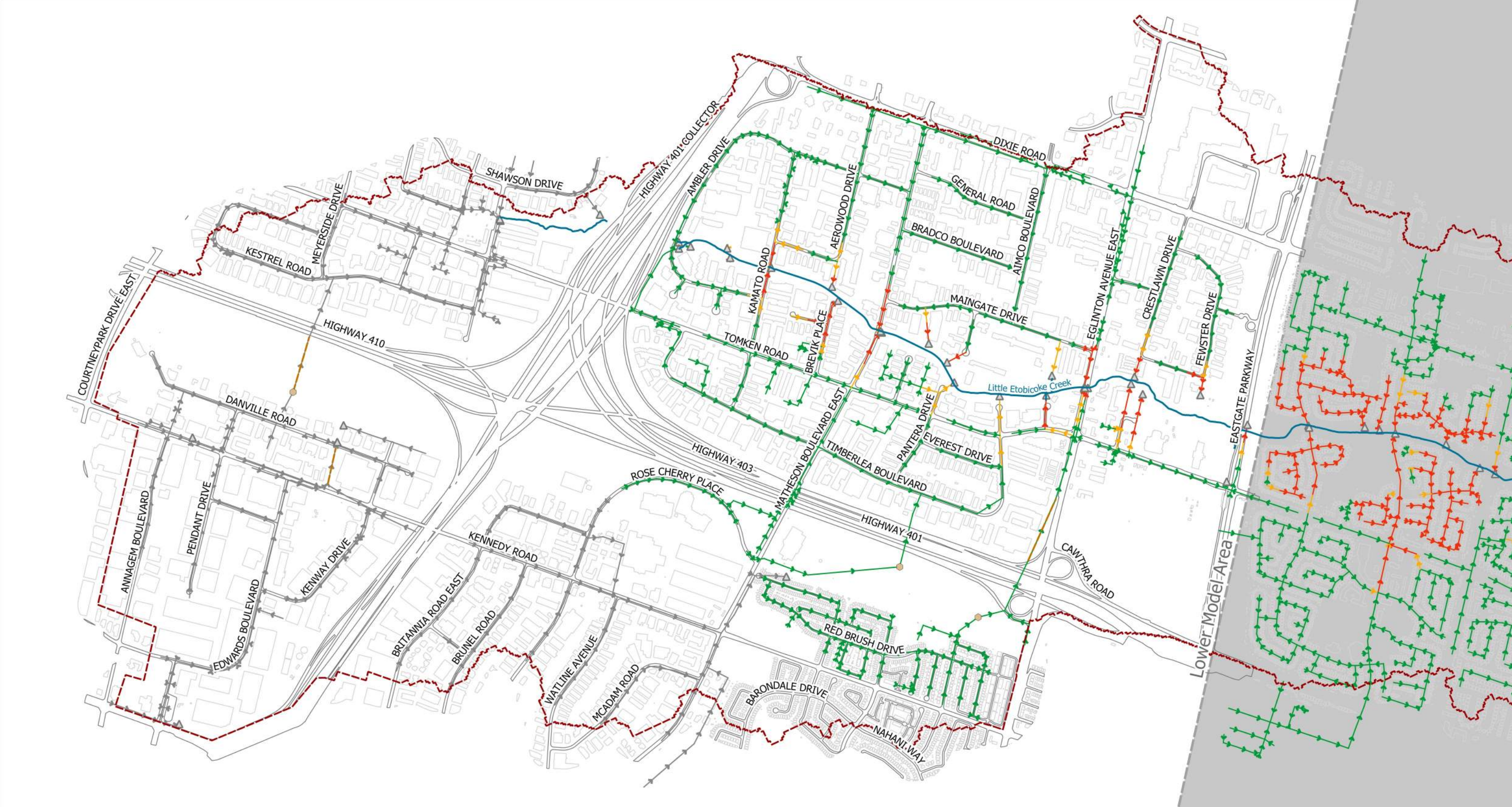
Little Etobicoke Creek Phase 2
Flood Evaluation Study

Project #24603

Lower Model Area
Existing Conditions (100-year): Riverine Impacts

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P. Bishop
A. McKay
Map 2.12

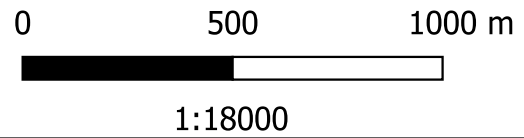


Map Date: October 27, 2020

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- | | | |
|------------|--------------------|---|
| ● SWM Pond | — Watercourse | Riverine Impacts |
| ▲ Outlet | □ Buildings | Regional Event |
| — Roads | ▭ LEC Watershed | — No Riverine Flooding Impacts |
| — Railway | ▭ Lower Model Area | — Riverine Flooding Impacts (Pipe Partially Full) |
| — Swale | | — Riverine Flooding Impacts (Pipe Full) |
| | | — Unable to Evaluate |



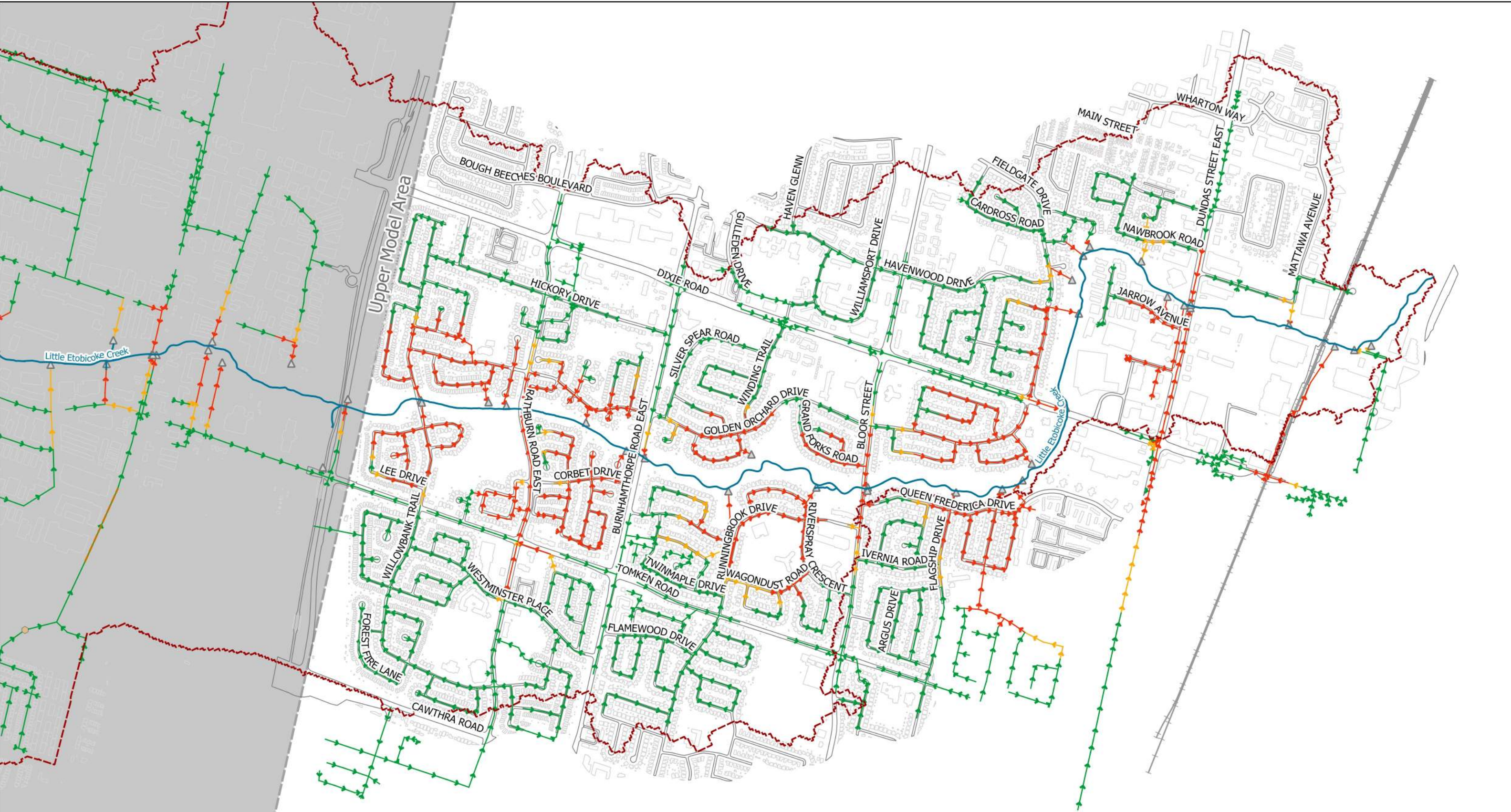
Little Etobicoke Creek Phase 2
Flood Evaluation Study

Project #24603

Upper Model Area
Existing Conditions (Regional): Riverine Impacts

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P. Bishop
A. McKay
Map 2.13



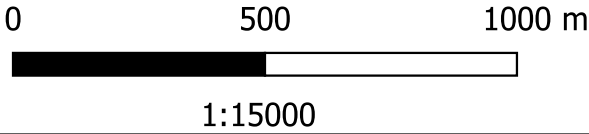
Map Date: October 27, 2020

- SWM Pond
- ▲ Outlet
- Roads
- Railway
- Swale
- Watercourse
- Buildings
- LEC Watershed
- Upper Model Area

Riverine Impacts

Regional Event

- No Riverine Flooding Impacts
- Riverine Flooding Impacts (Pipe Partially Full)
- Riverine Flooding Impacts (Pipe Full)
- Unable to Evaluate



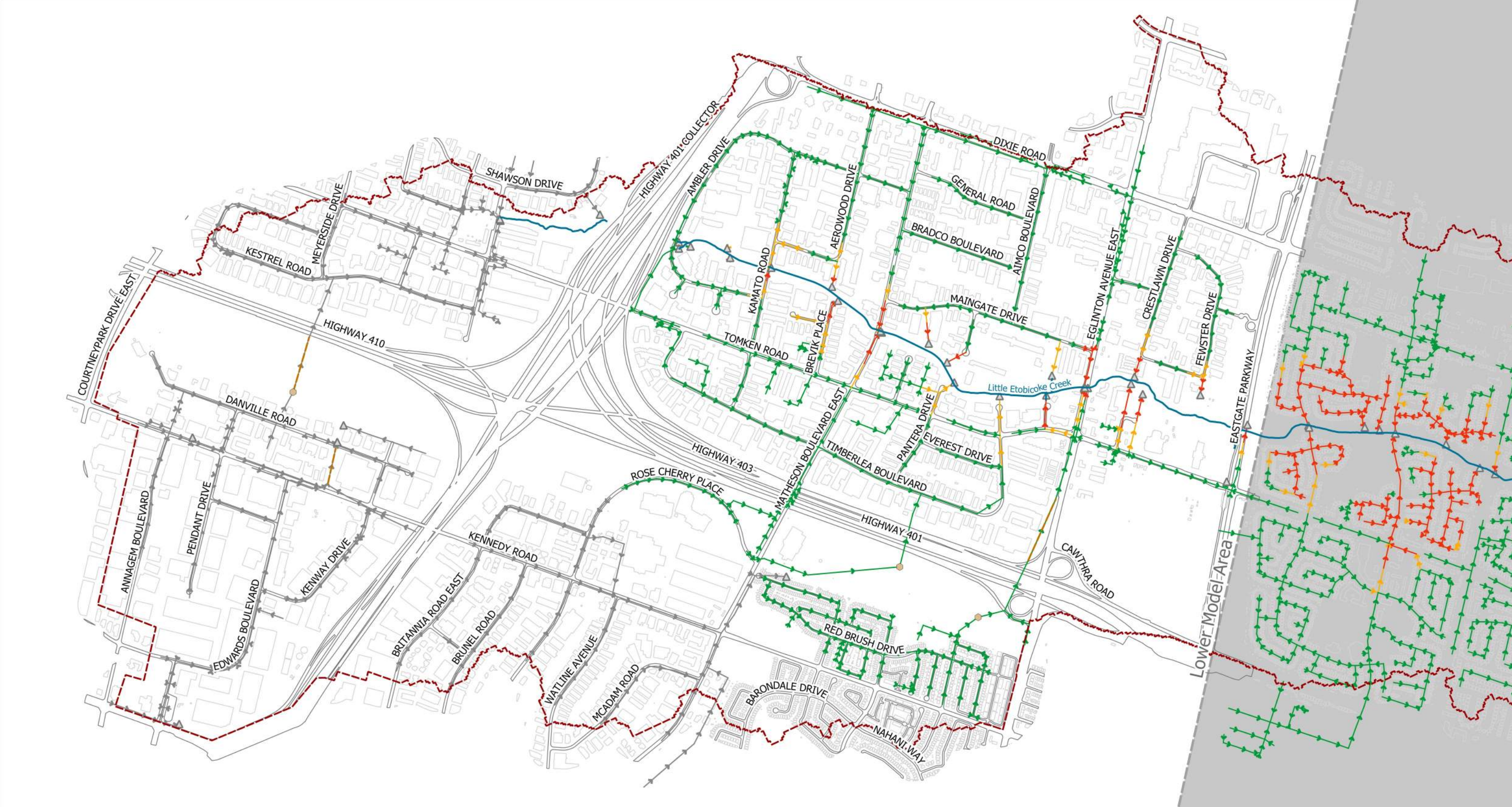
Little Etobicoke Creek Phase 2
Flood Evaluation Study

Project #24603

Lower Model Area
Existing Conditions (Regional): Riverine Impacts

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P. Bishop
A. McKay
Map 2.14

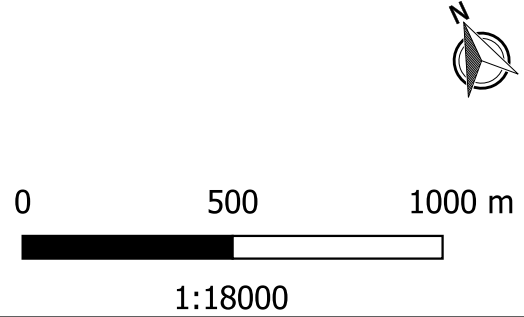



Map Date: October 27, 2020

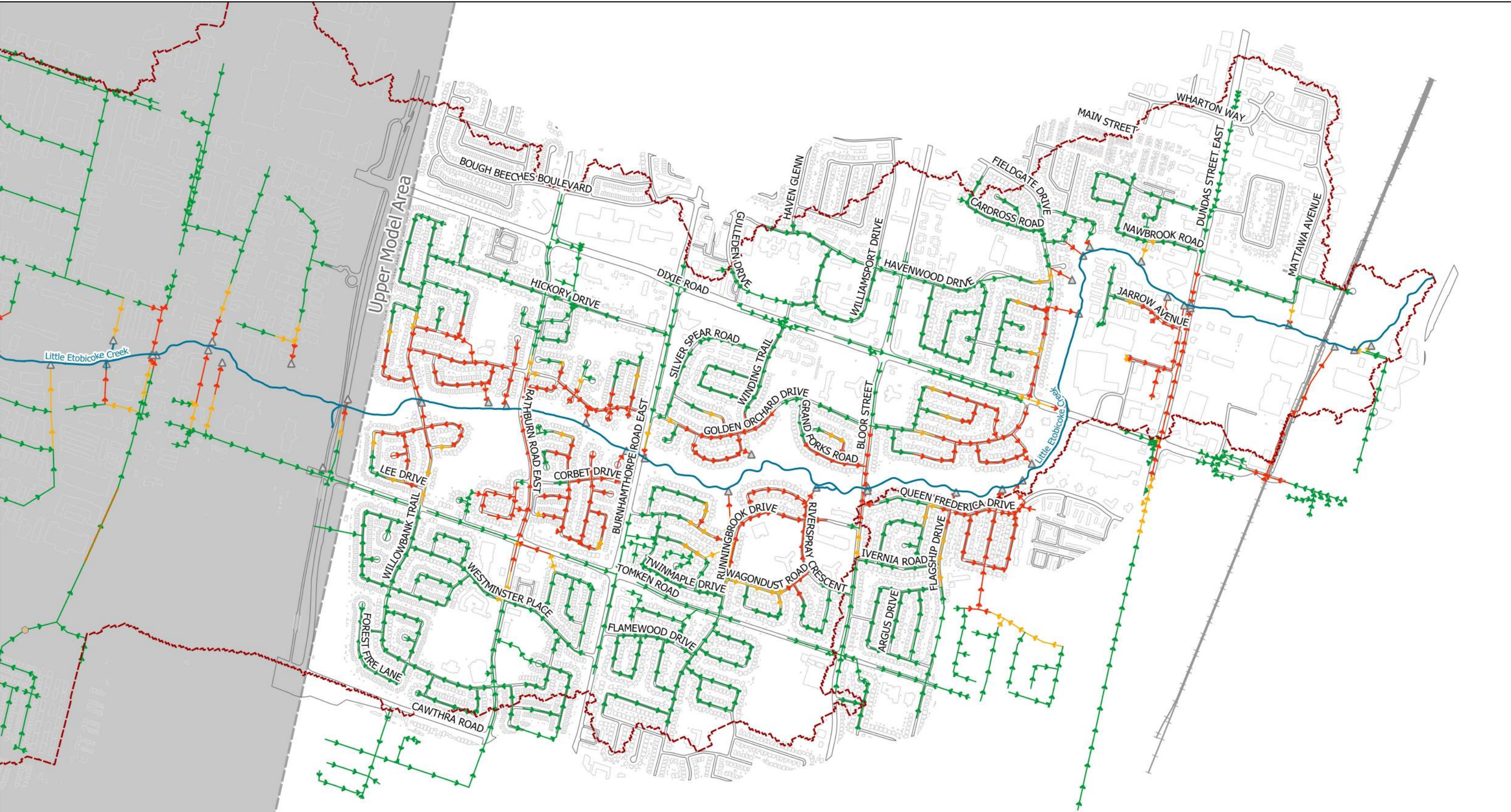
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- | | | |
|------------|--------------------|---|
| ● SWM Pond | — Watercourse | Riverine Impacts |
| ▲ Outlet | □ Buildings | 350-year Event |
| — Roads | ▭ LEC Watershed | — No Riverine Flooding Impacts |
| — Railway | ▭ Lower Model Area | — Riverine Flooding Impacts (Pipe Partially Full) |
| — Swale | | — Riverine Flooding Impacts (Pipe Full) |
| | | — Unable to Evaluate |



 Matrix Solutions Inc. ENVIRONMENT & ENGINEERING	
Little Etobicoke Creek Phase 2 Flood Evaluation Study	
Project #24603	
Upper Model Area Existing Conditions (350-year): Riverine Impacts	
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P. Bishop A. McKay	Map 2.15



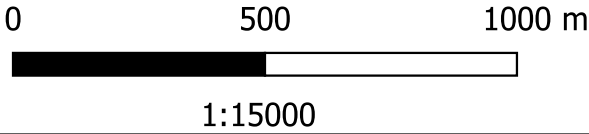
Map Date: October 27, 2020

- | | |
|------------|--------------------|
| ● SWM Pond | — Watercourse |
| ▲ Outlet | □ Buildings |
| — Roads | ▭ LEC Watershed |
| — Railway | ■ Upper Model Area |
| — Swale | |

Riverine Impacts

350-year Event

- | |
|---|
| — No Riverine Flooding Impacts |
| — Riverine Flooding Impacts (Pipe Partially Full) |
| — Riverine Flooding Impacts (Pipe Full) |
| — Unable to Evaluate |



Little Etobicoke Creek Phase 2
Flood Evaluation Study

Project #24603

Lower Model Area
Existing Conditions (350-year): Riverine Impacts

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P. Bishop
A. McKay
Map 2.16