

City of Guelph

Stormwater Management Master Plan

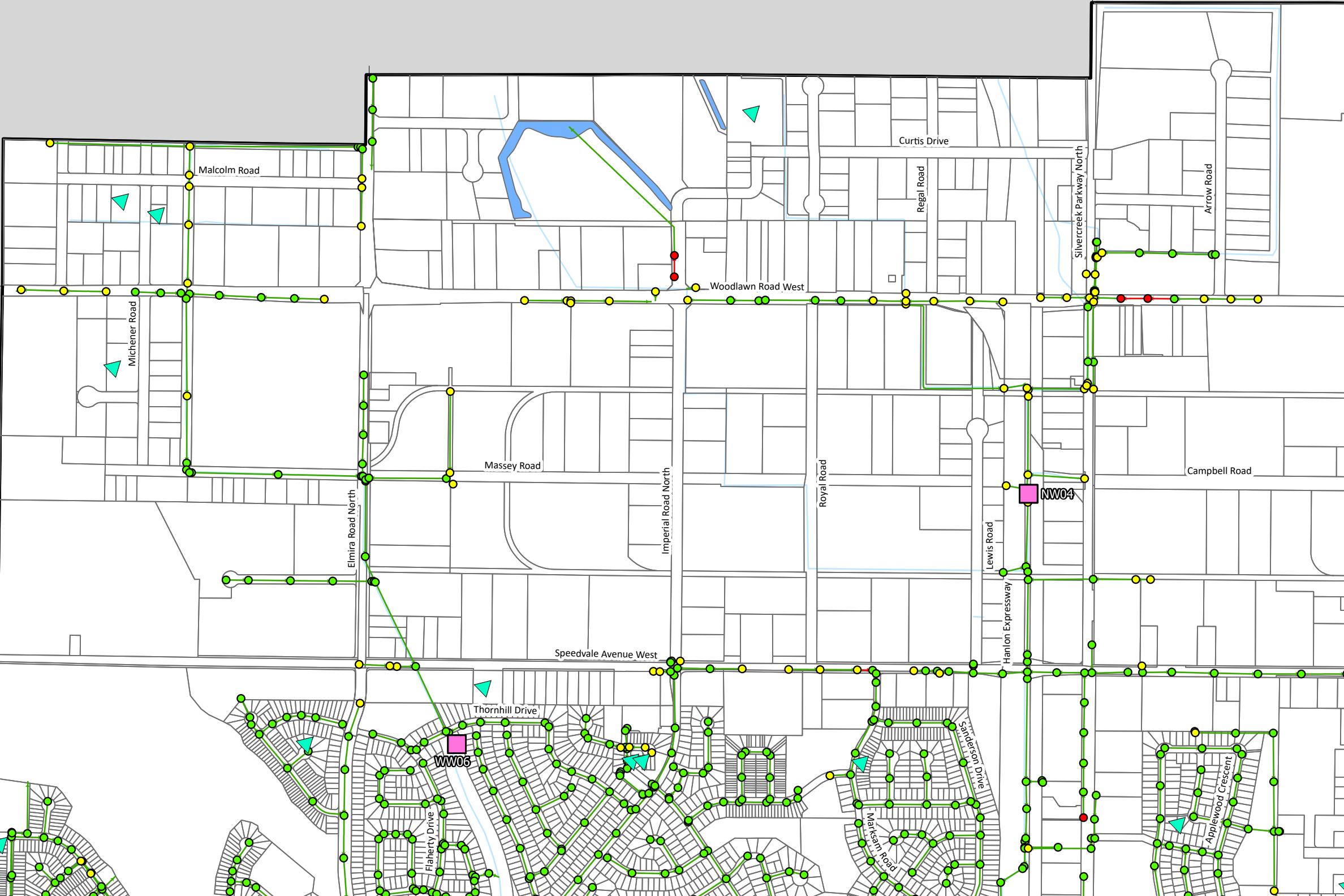
**Appendix K.3 – Hydrologic and Hydraulic Analysis –
Appendix C, Part 2**

March 2023



Appendix C5: Scenario 5 Green Infrastructure (28mm Volume Control)

TOWNSHIP OF
GUELPH/ERAMOSA



Legend

- Municipal Boundary
- Property
- Watercourse
- Stormwater Management Facility
- Flow Monitoring Locations (AMEC)
- Rain Gauge Locations (Municipal & GRCA)
- Flooding Complaint

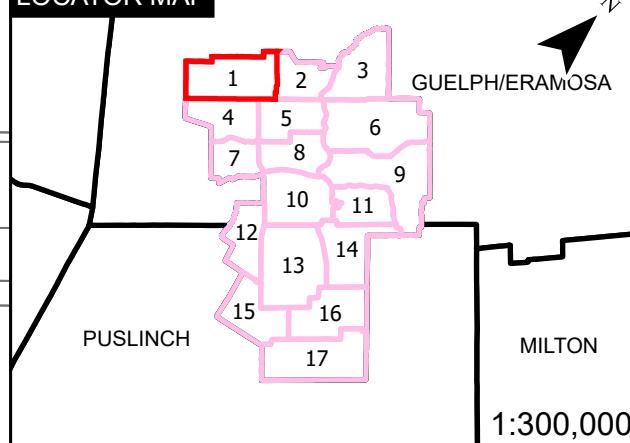
Stormwater Sewer:

- Unsurcharged
- Surcharged (Bottleneck)

Node Hydraulic Grade Line:

- At or Above Surface
- 0-1.8m Below Ground Surface
- > 1.8m Below Ground Surface

LOCATOR MAP



Figure

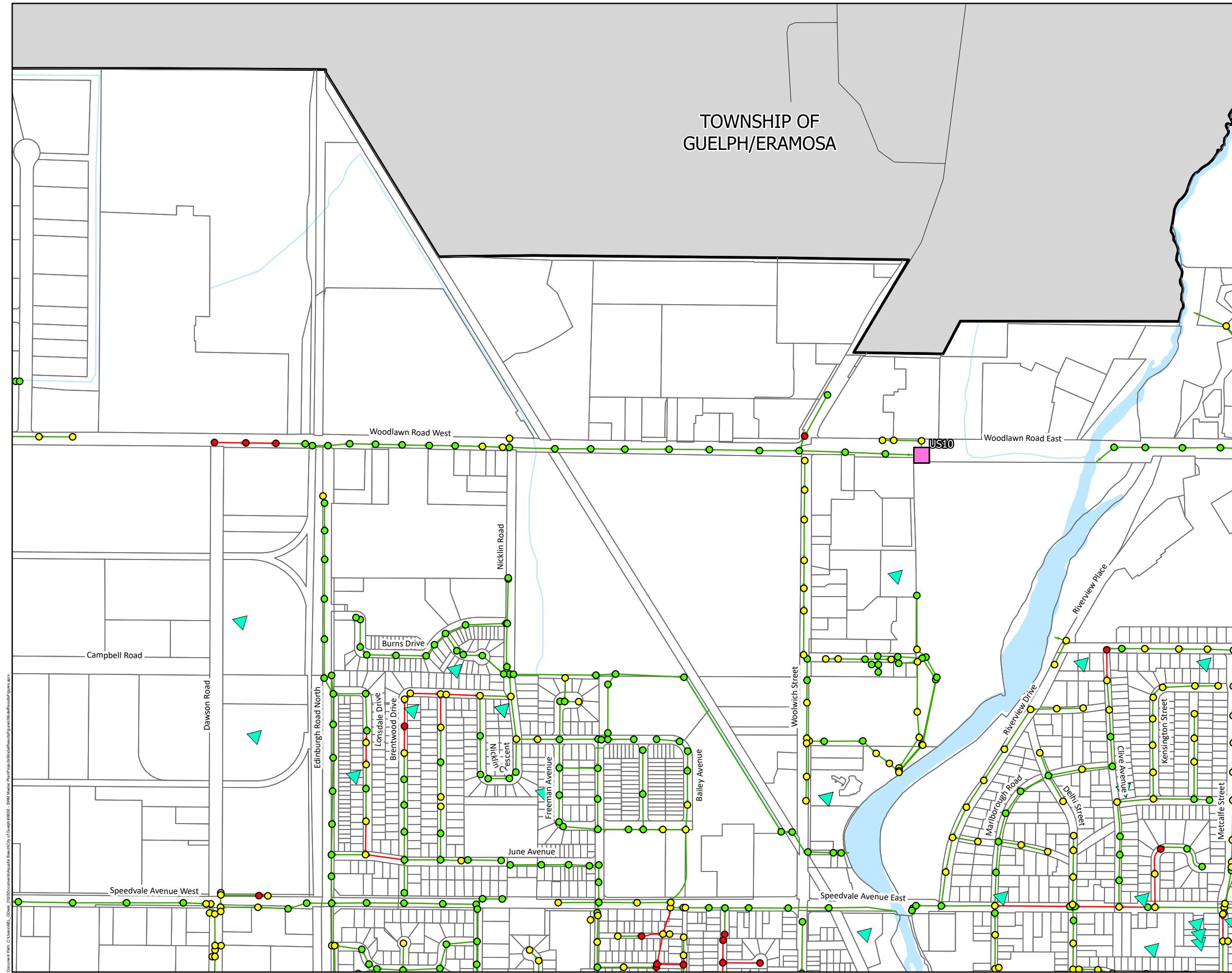
Storm Sewer 28mm Synthetic Storm
5-Year Conditions

Date: 2022-09-23
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 112.5 225 450
Meters



TOWNSHIP OF
GUELPH/ERAMOSA



Legend

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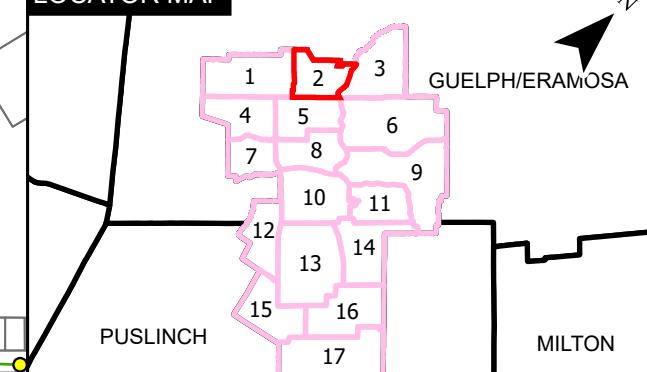
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LOCATOR MAP



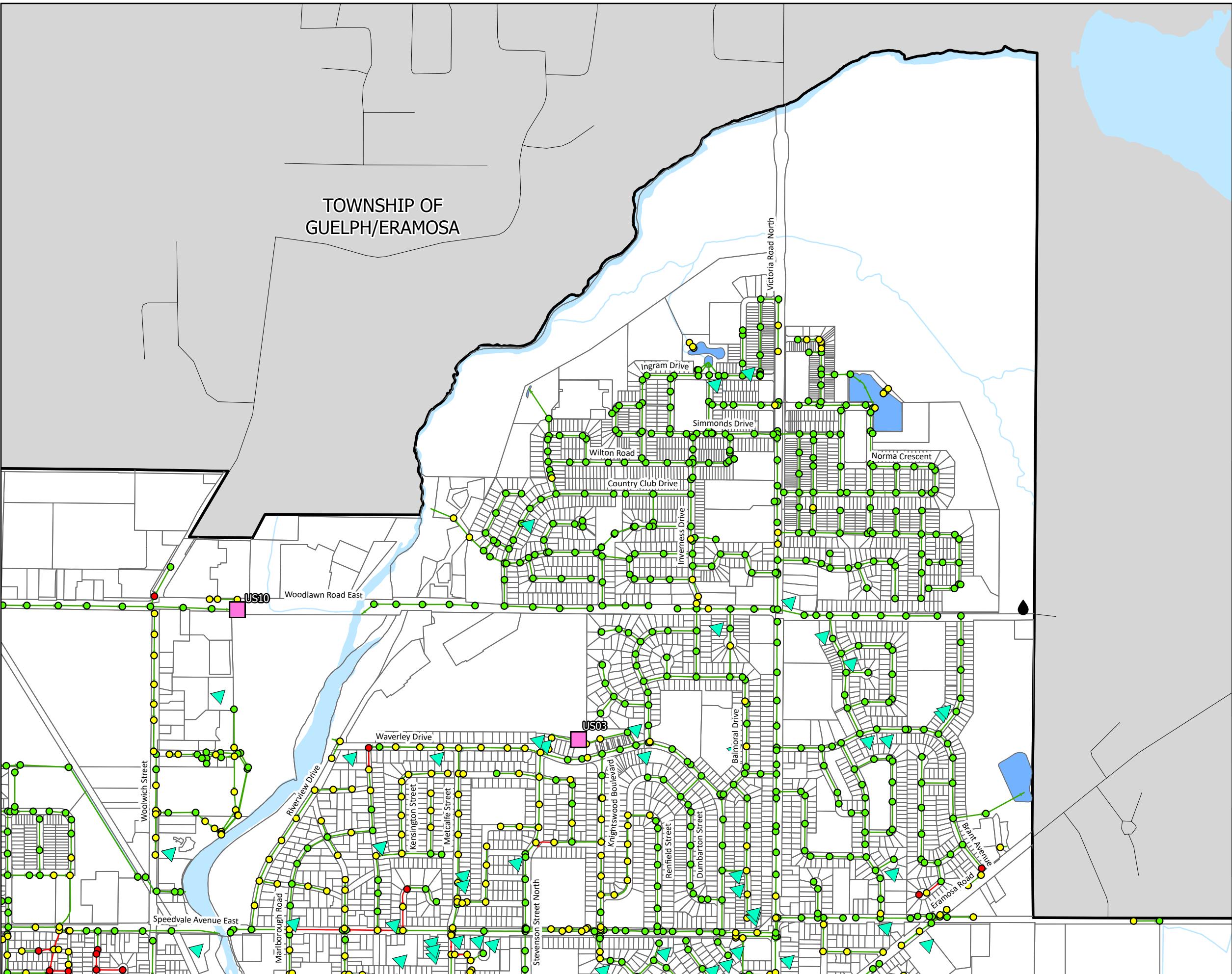
Figure

Storm Sewer 28mm Synthetic Storm
5-Year Conditions

Date: 2022-09-23
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 75 150 300
Meters





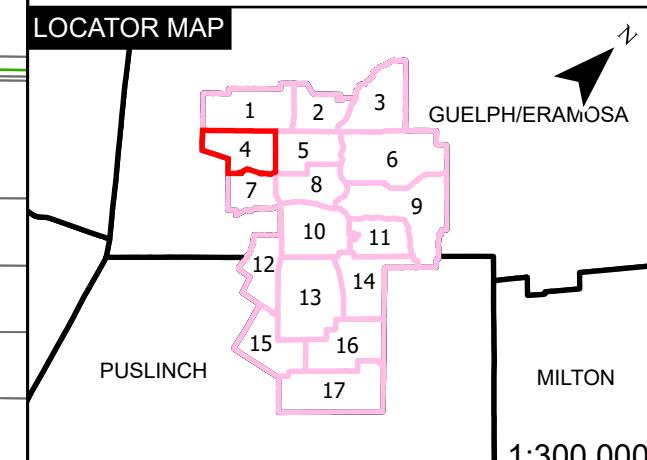
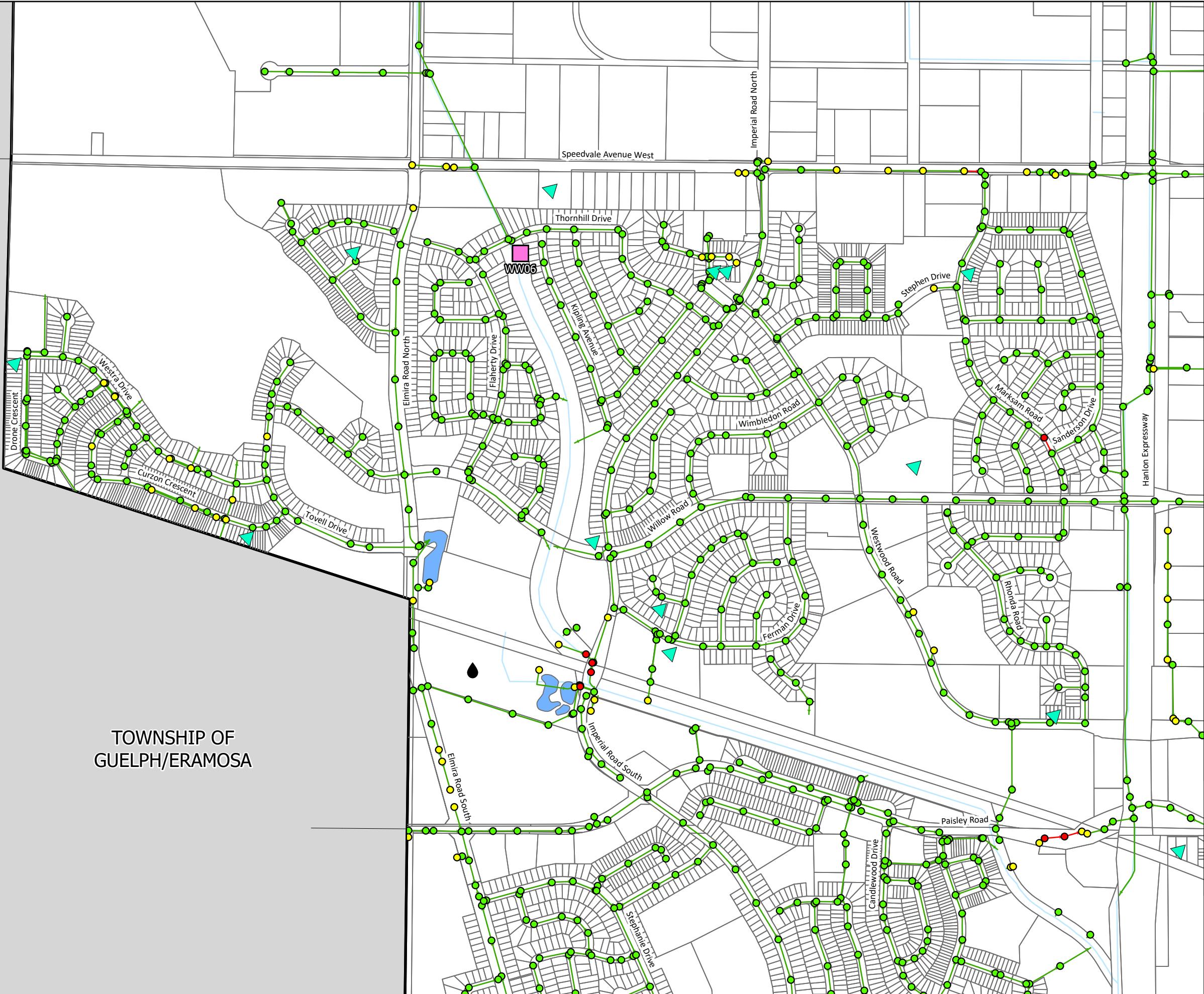
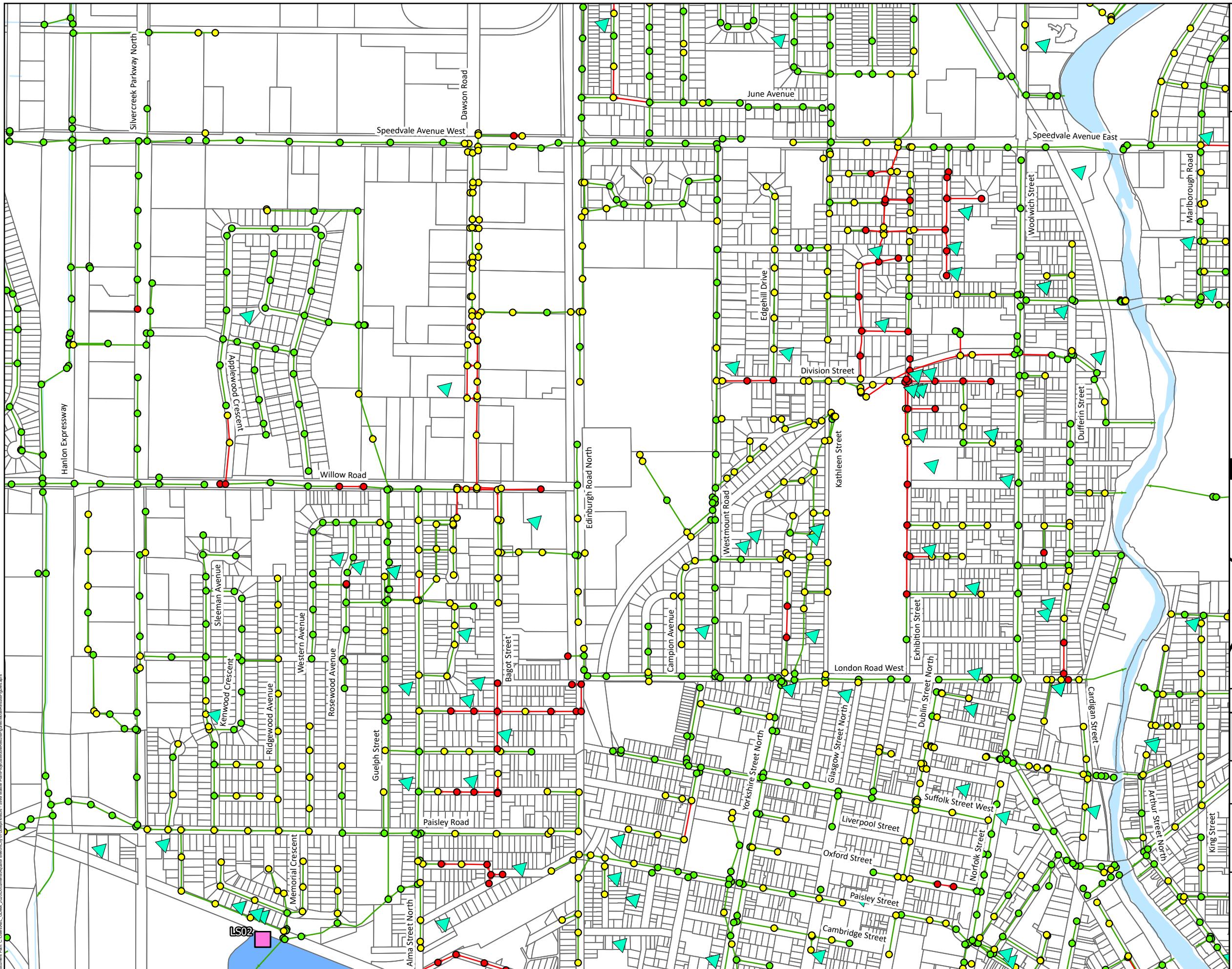


Figure
Storm Sewer 28mm Synthetic Storm
5-Year Conditions

Date: 2022-09-23
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 90 180 360
Meters





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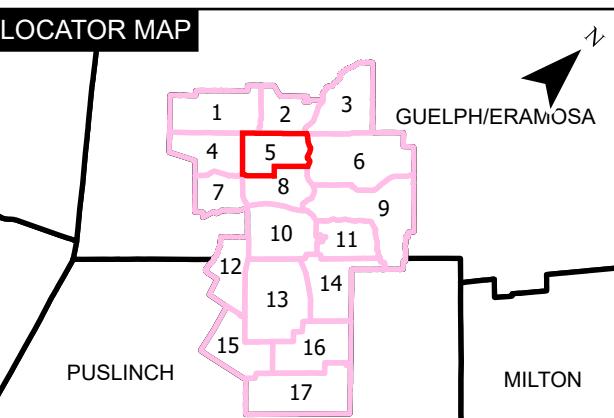
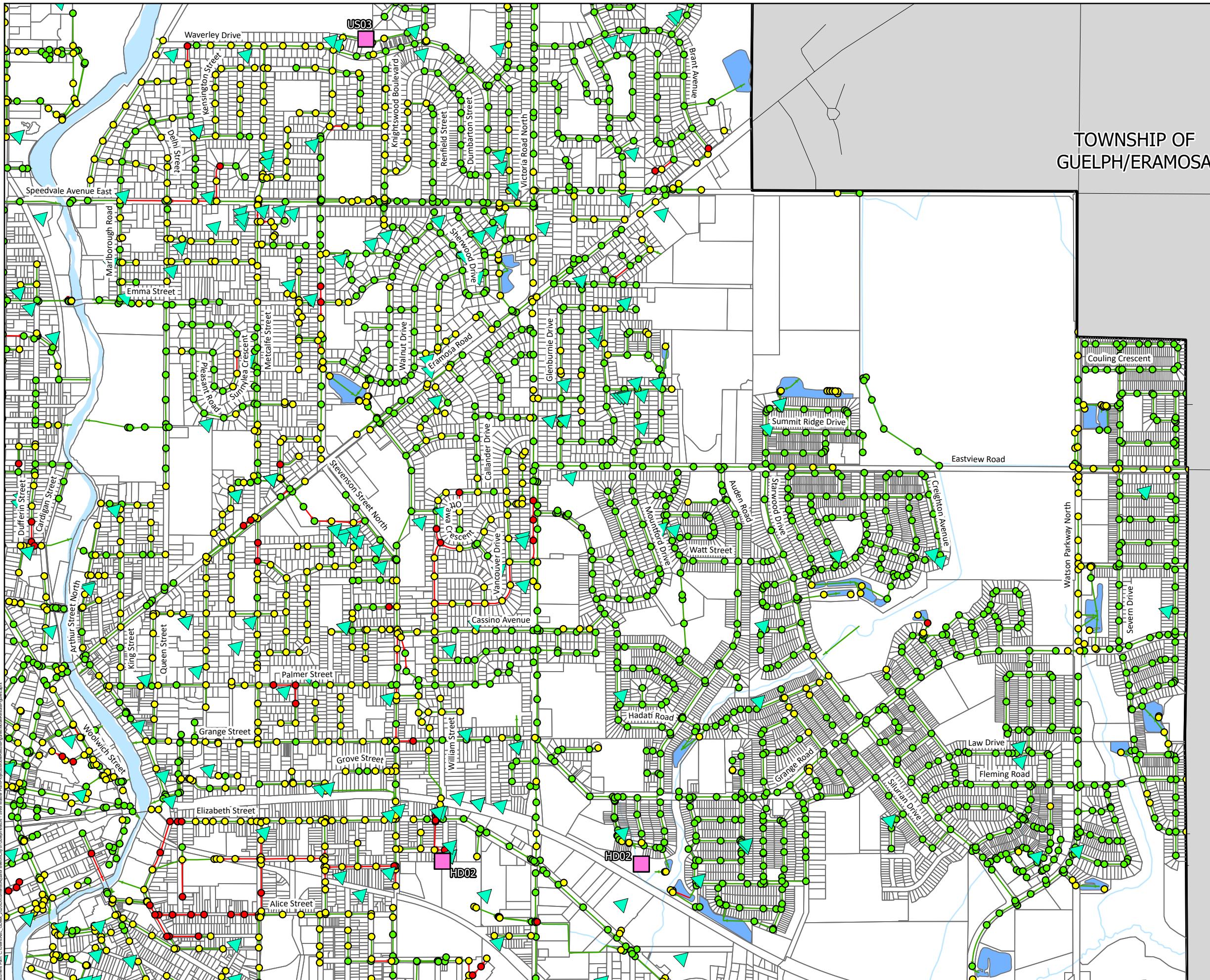


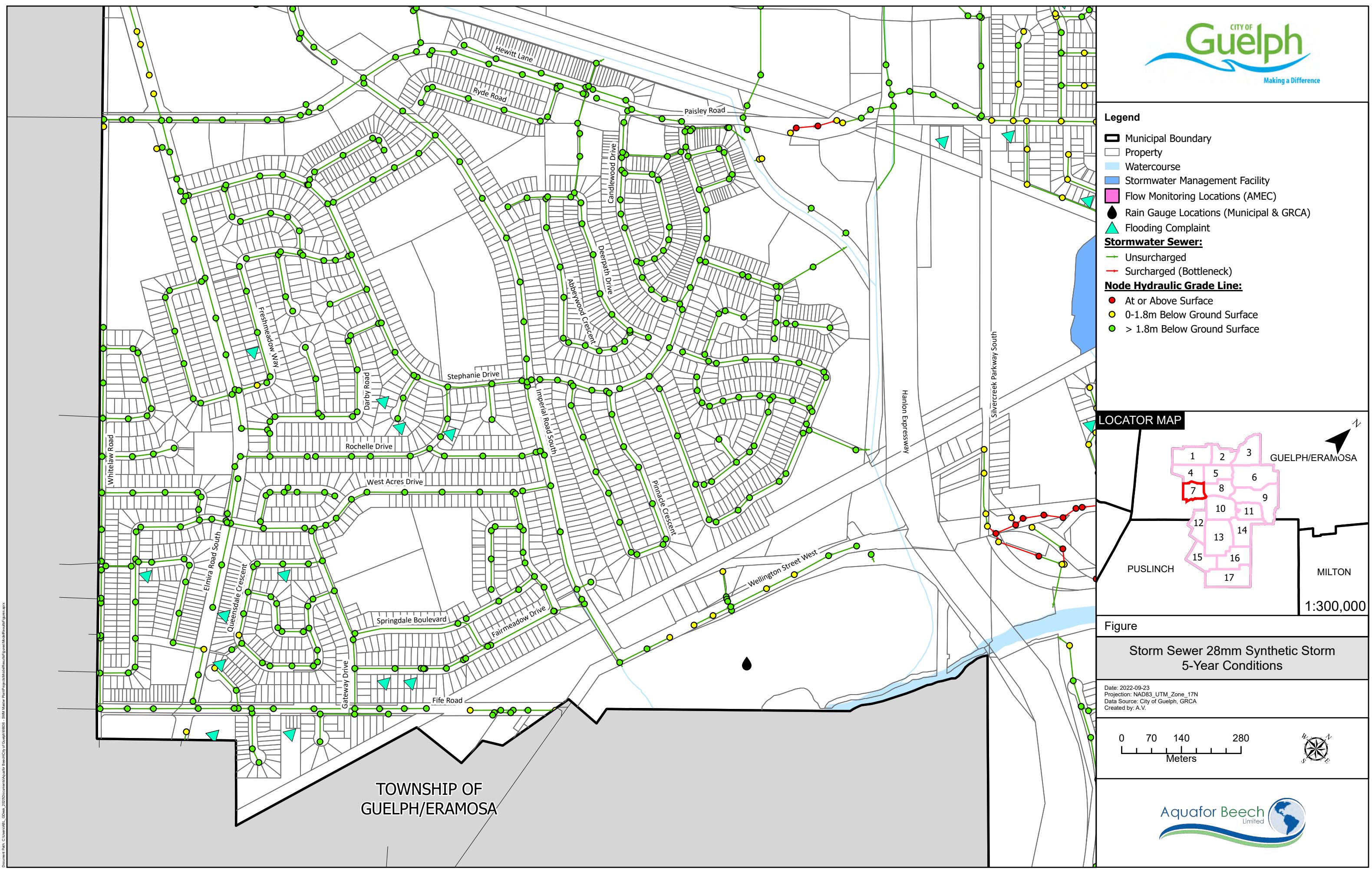
Figure
Storm Sewer 28mm Synthetic Storm
5-Year Conditions

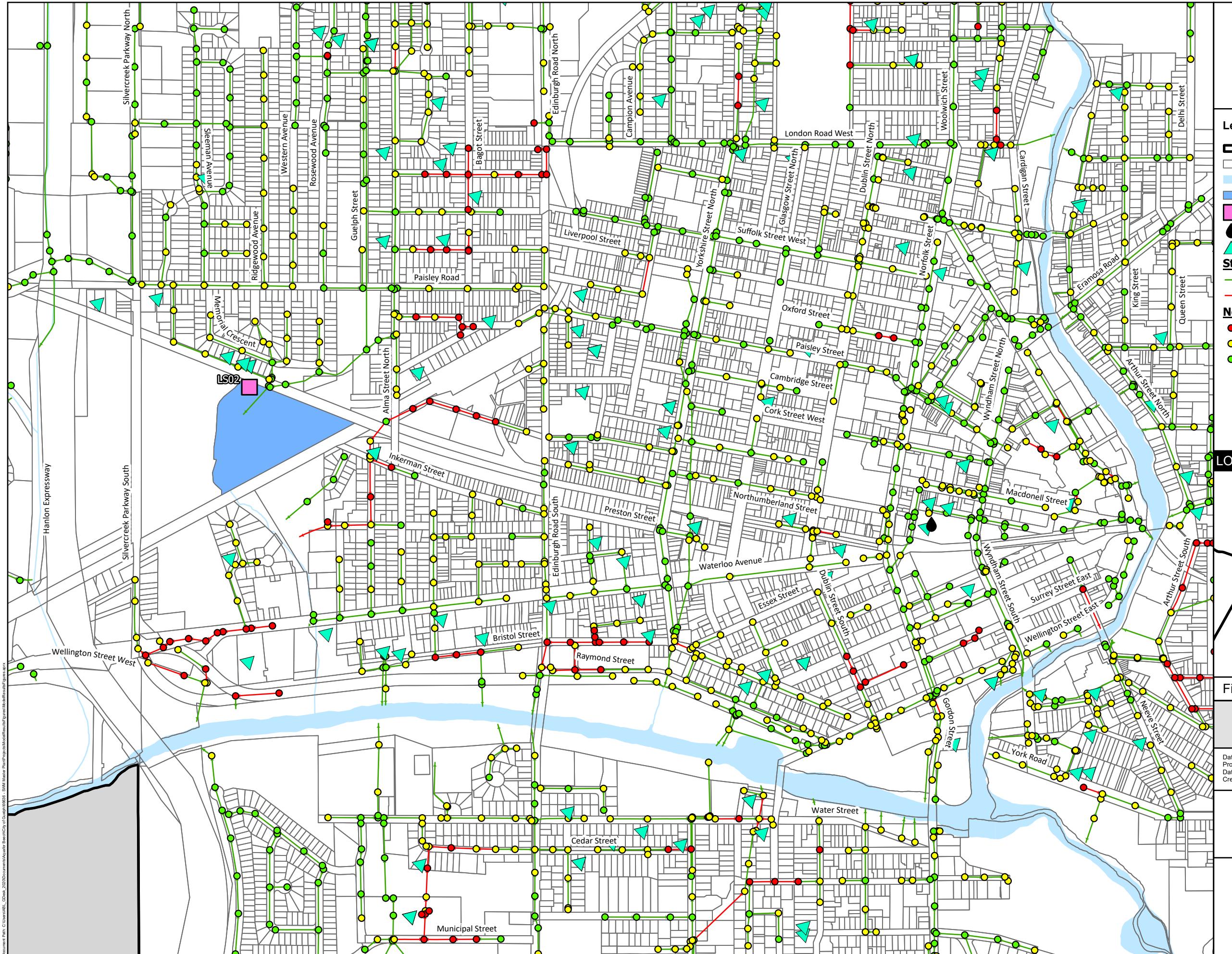
Date: 2022-09-23
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 80 160 320
Meters









Legend

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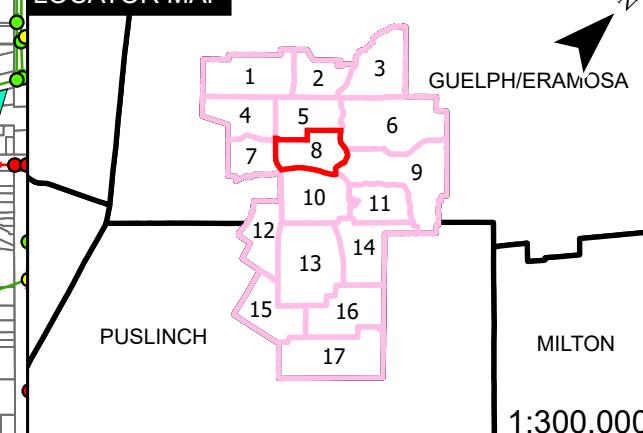
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LOCATOR MAP



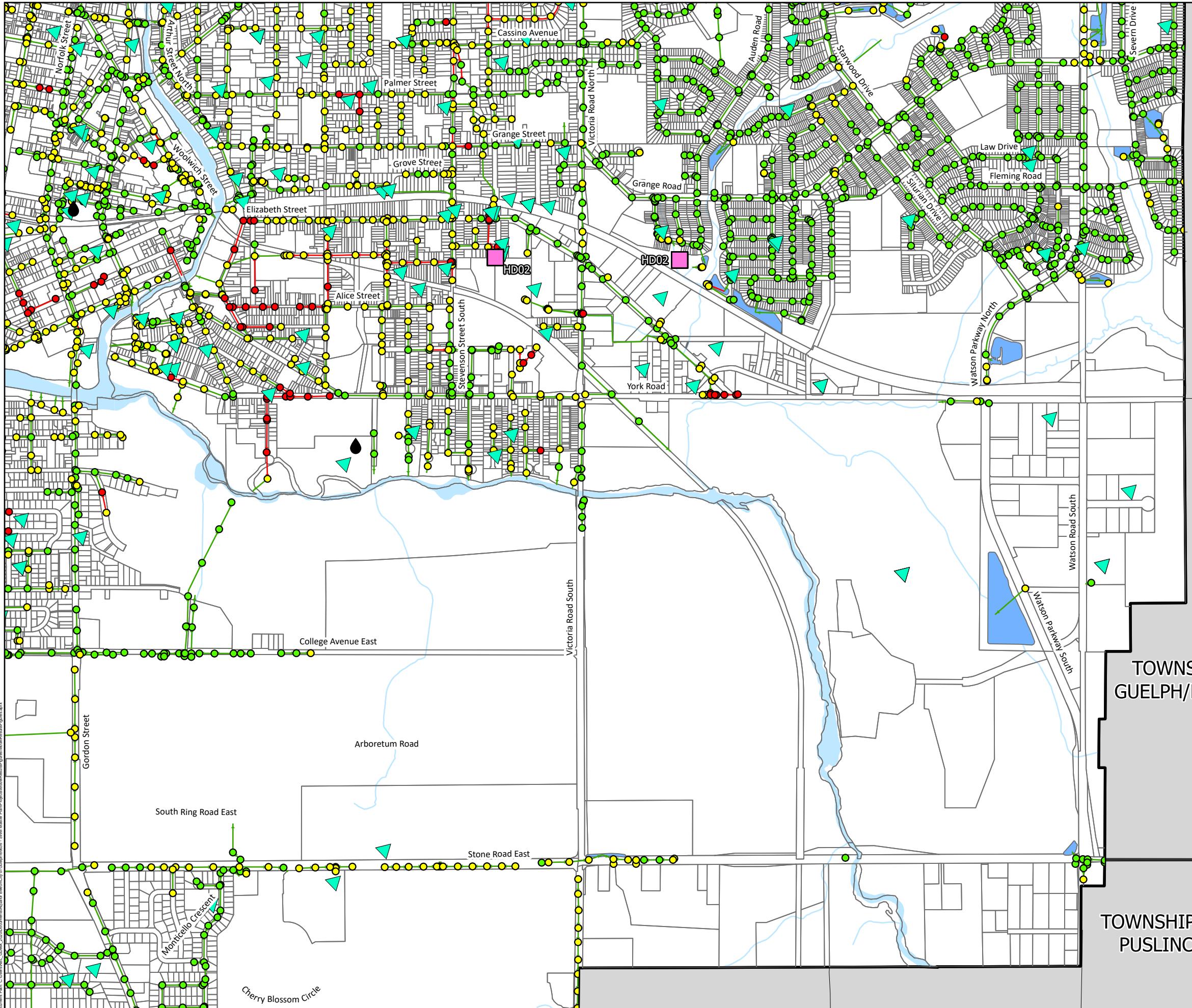
Figure

Storm Sewer 28mm Synthetic Storm 5-Year Conditions

Date: 2022-09-23
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 87.5 175 350
Meters





Legend

- Municipal Boundary
 - Property
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 - Flow Monitoring Locations (AMEC)

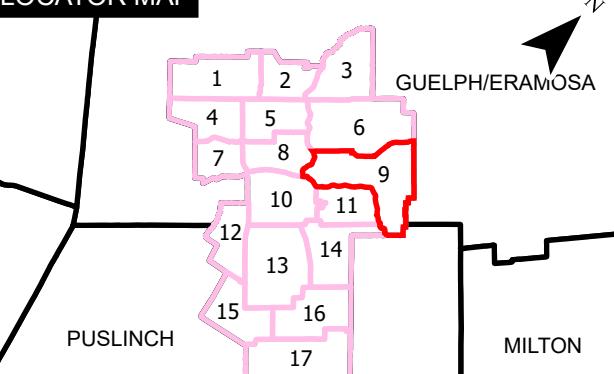
- Rain Gauge Location
- ▲ Flooding Complaint

- Unsurcharged
 - Surcharged (Bottleneck)

Node Hydraulic Grade Line:

- At or Above Surface
 - 0-1.8m Below Ground Surface
 - > 1.8m Below Ground Surface

LOCATOR MAP



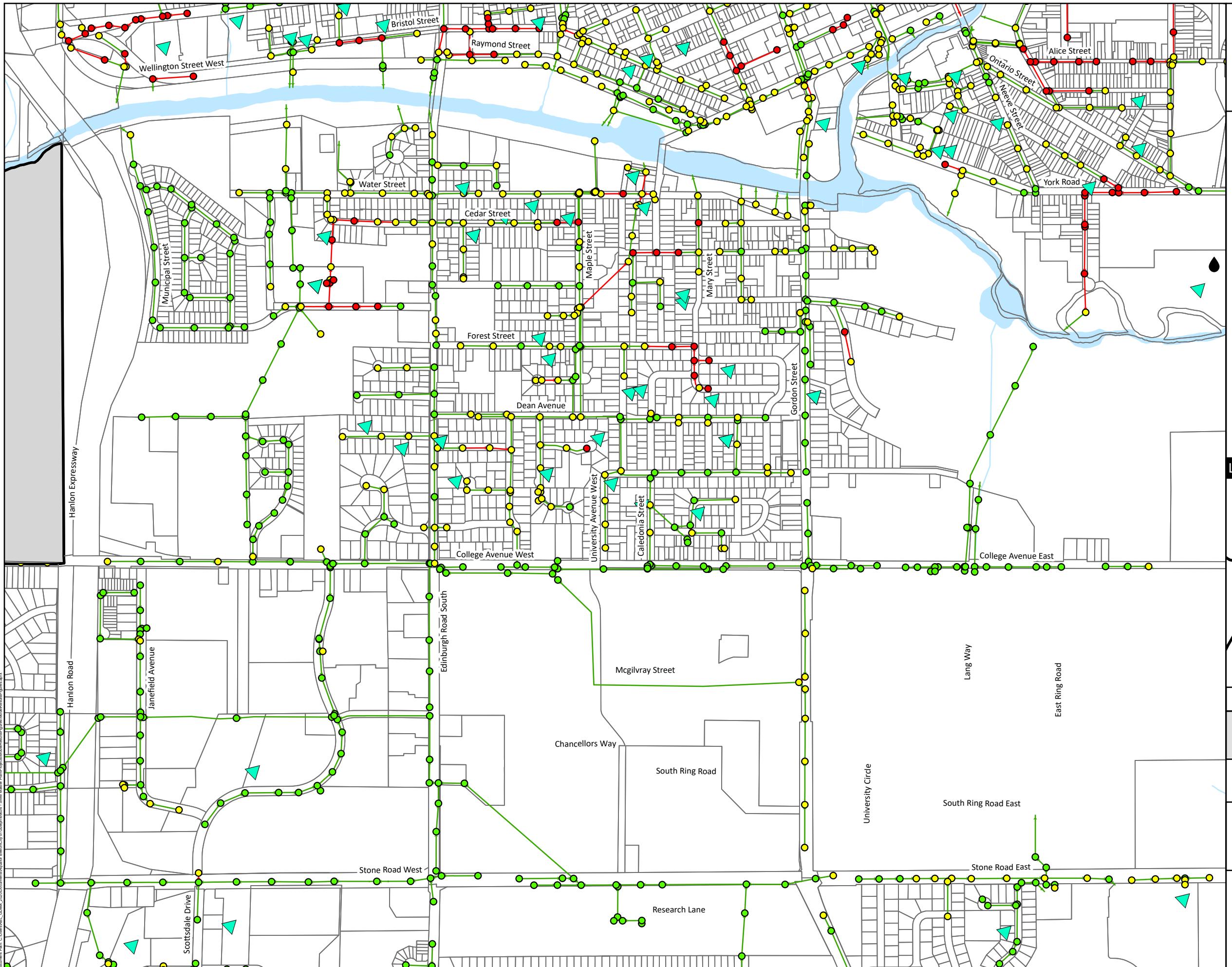
Figure

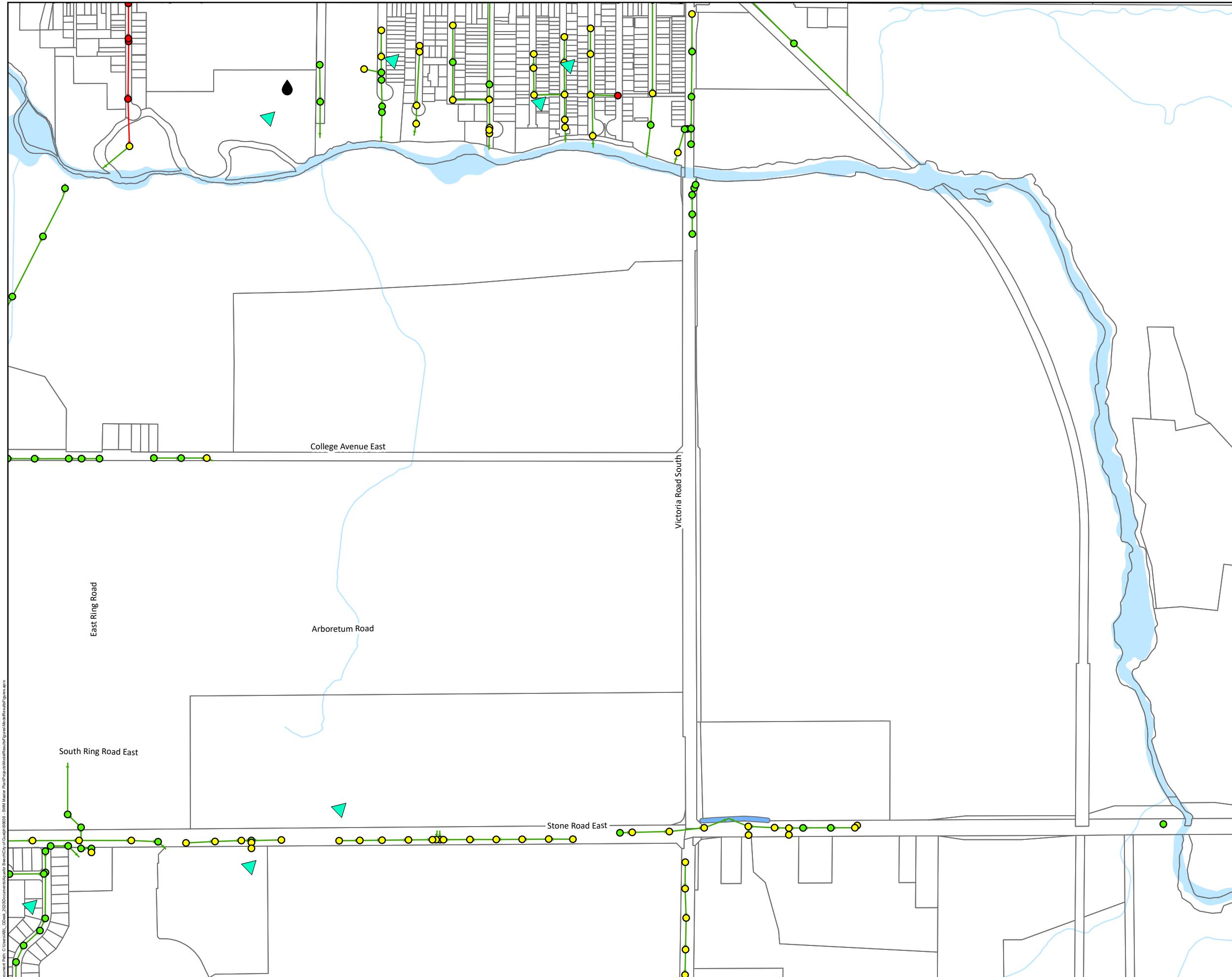
Storm Sewer 28mm Synthetic Storm
5-Year Conditions

Date: 2022-09-23
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A V

A horizontal number line starting at 0 and ending at 580. There are four major tick marks labeled 0, 145, 290, and 580. The distance between 0 and 145 is the same as between 145 and 290, which is also the same as between 290 and 580.



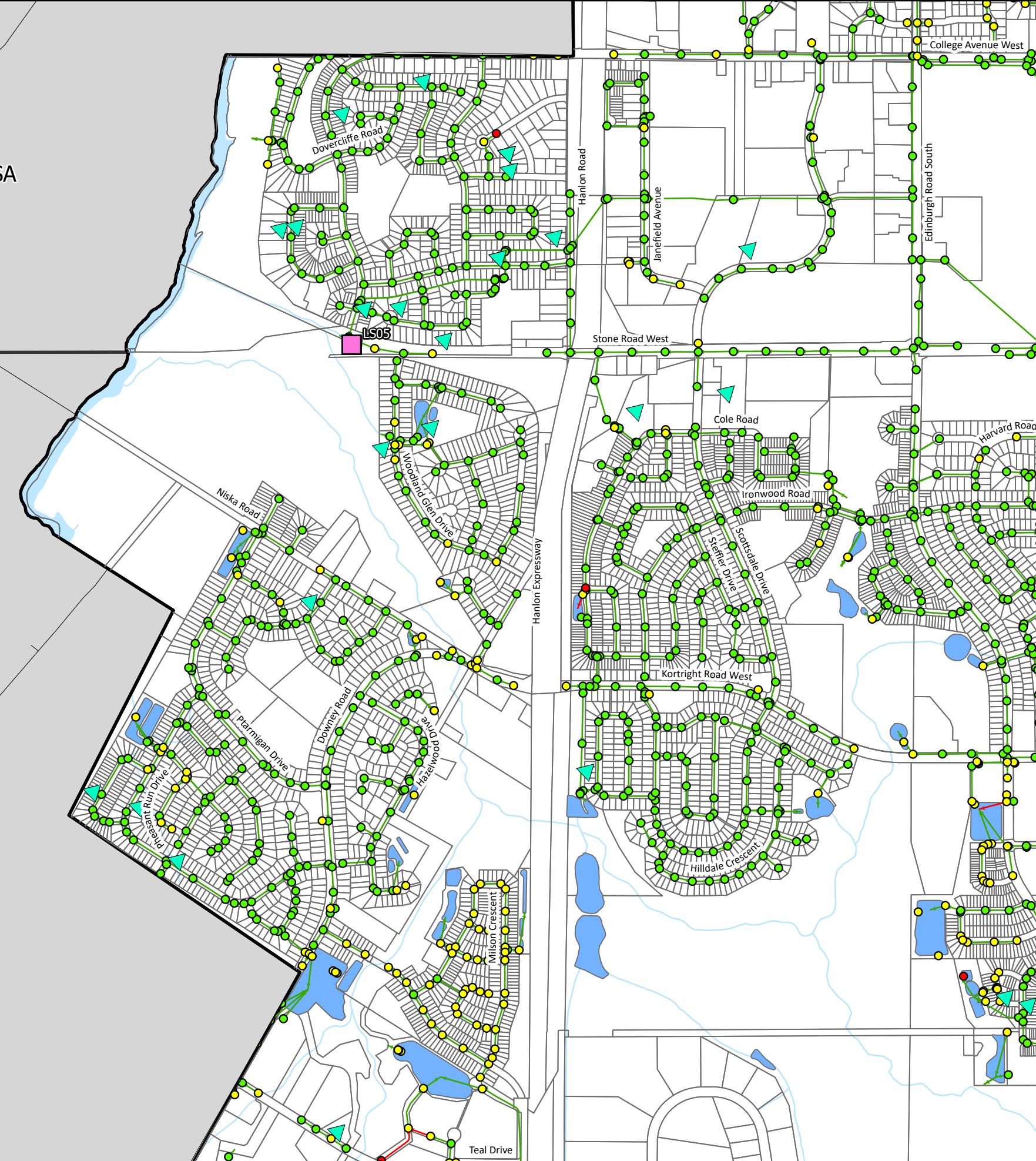




TOWNSHIP OF
GUELPH/ERAMOSA

TOWNSHIP OF
PUSLINCH

Document Ref: C:\Users\AB_GIS\OneDrive\Documents\Aquafor Beech\2020\2020\Documents\Aquafor Beech\City of Guelph\2020\2020\Documents\Aquafor Beech\Stormwater Management Plan\Project Model Results\Figure\NodeResults\Figures\807X



Legend

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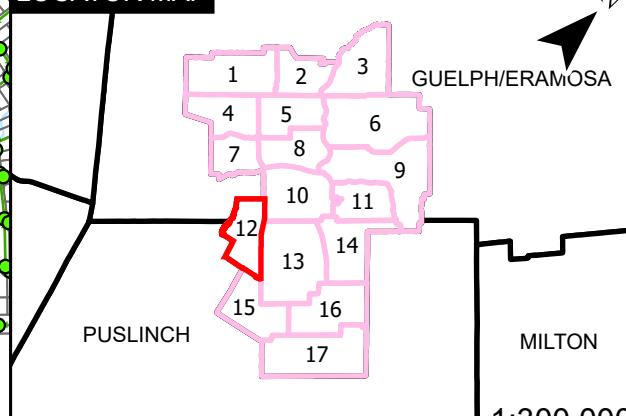
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LOCATOR MAP



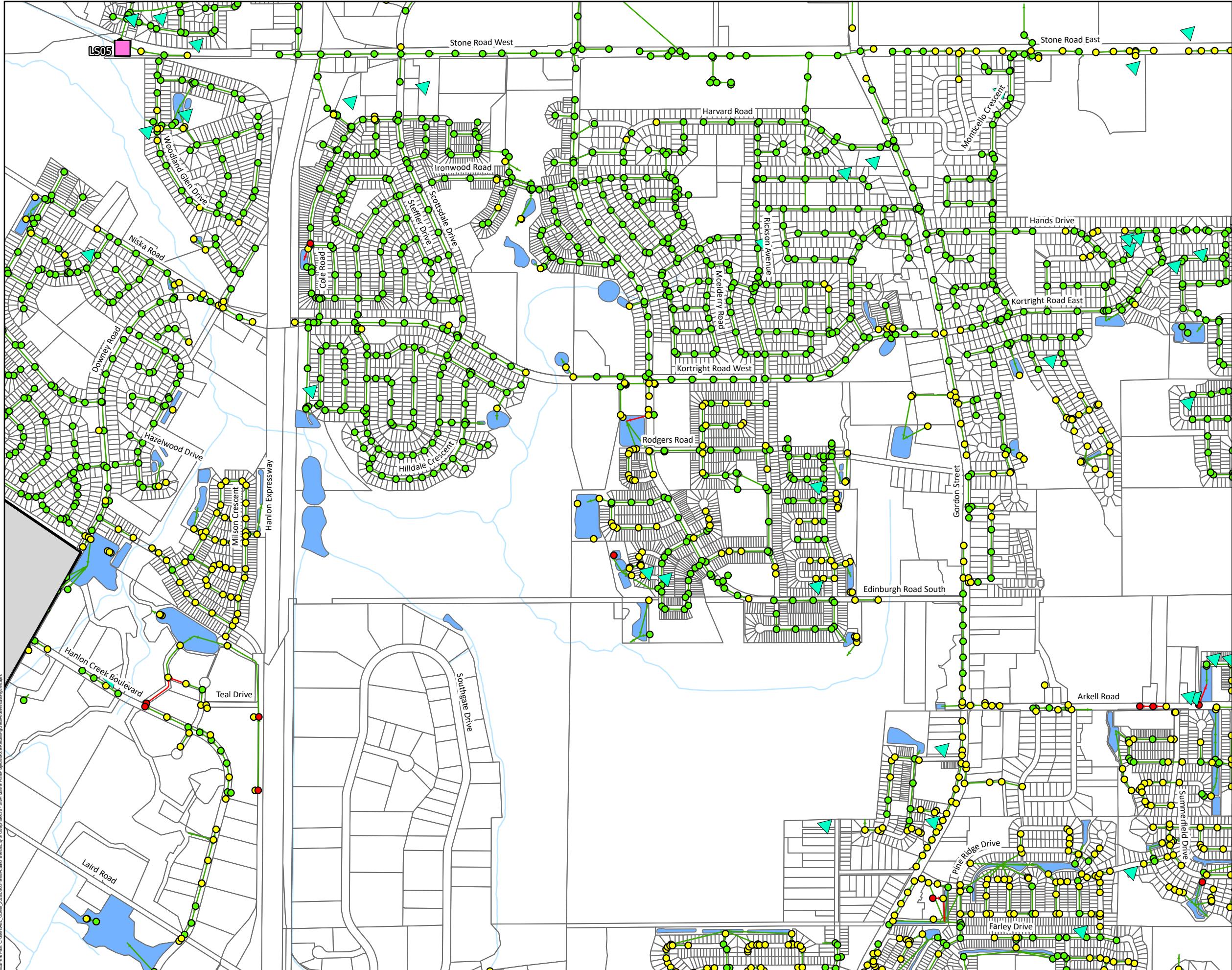
Figure

Storm Sewer 28mm Synthetic Storm
5-Year Conditions

Date: 2022-09-23
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 125 250 500
Meters





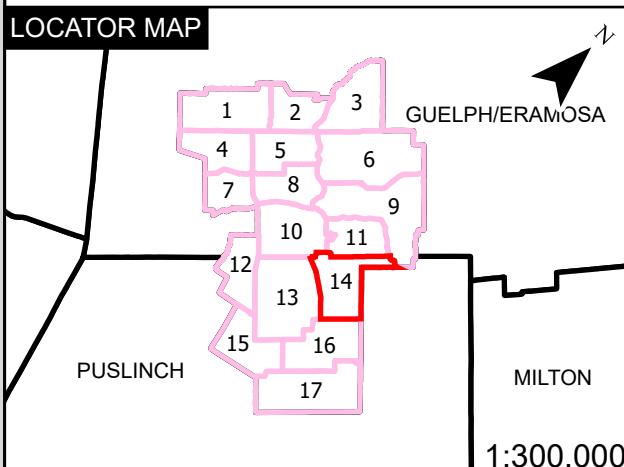
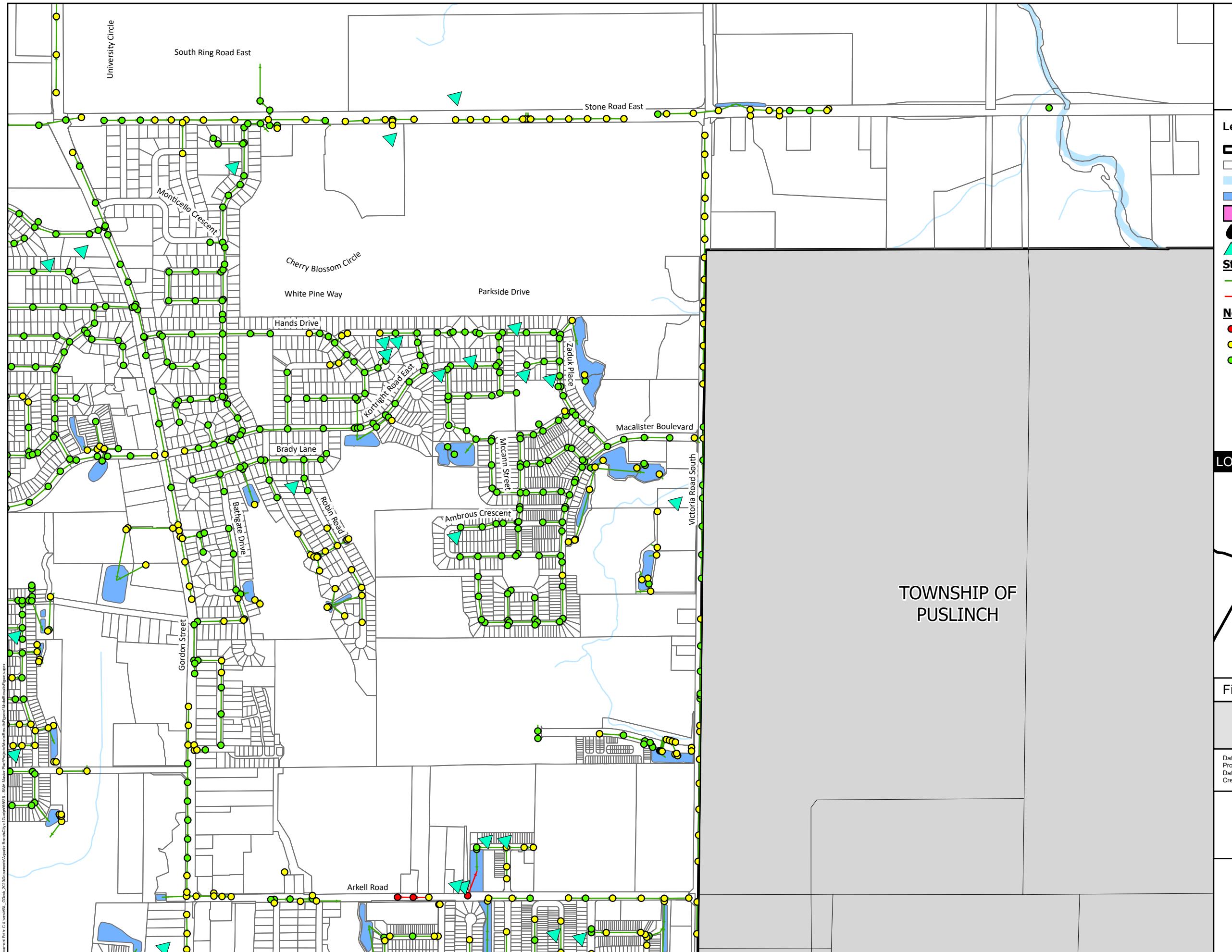


Figure
Storm Sewer 28mm Synthetic Storm
5-Year Conditions

Date: 2022-09-23
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 105 210 420
Meters

TOWNSHIP OF
PUSLINCH

Document Name: C:\Users\AB_Geek\OneDrive\Documents\Aquafor Beech\2020\2020 Document\Survey\0801 - SWM Master Plan\Project\Phase 1\Report\NodeResults\Figure\NodeResultsFigure8.mxd



Legend

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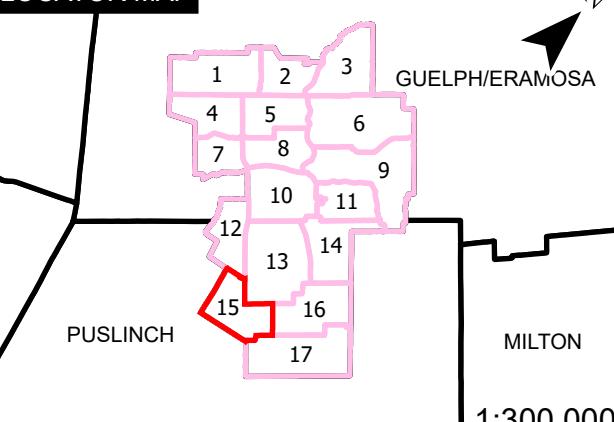
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LOCATOR MAP



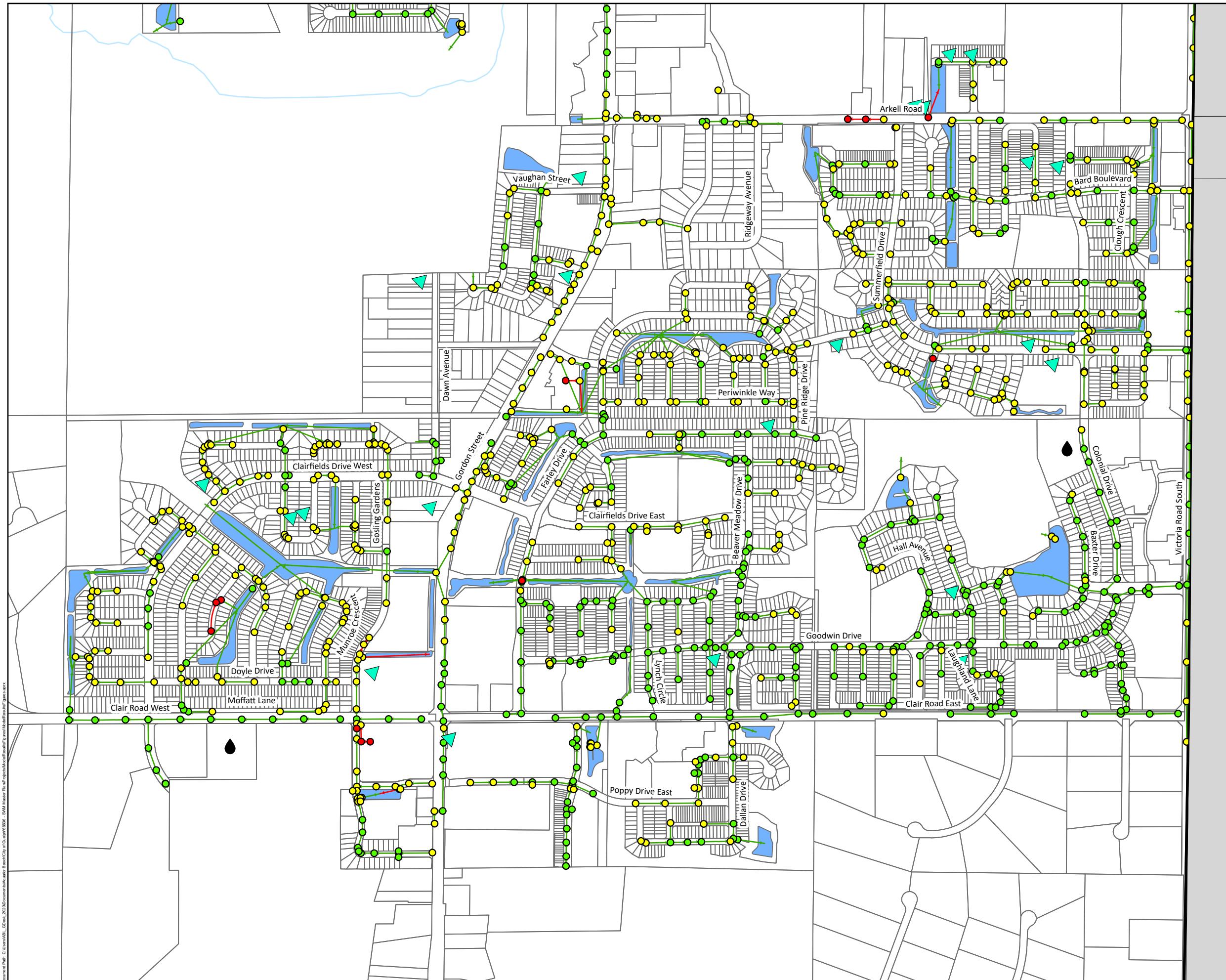
Figure

Storm Sewer 28mm Synthetic Storm
5-Year Conditions

Date: 2022-09-23
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 112.5 225 450
Meters





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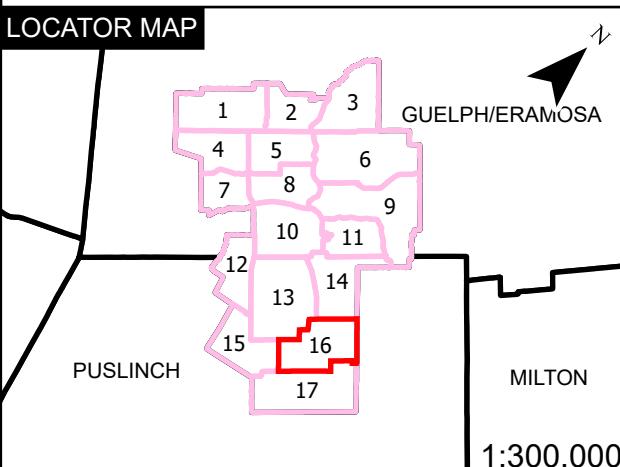
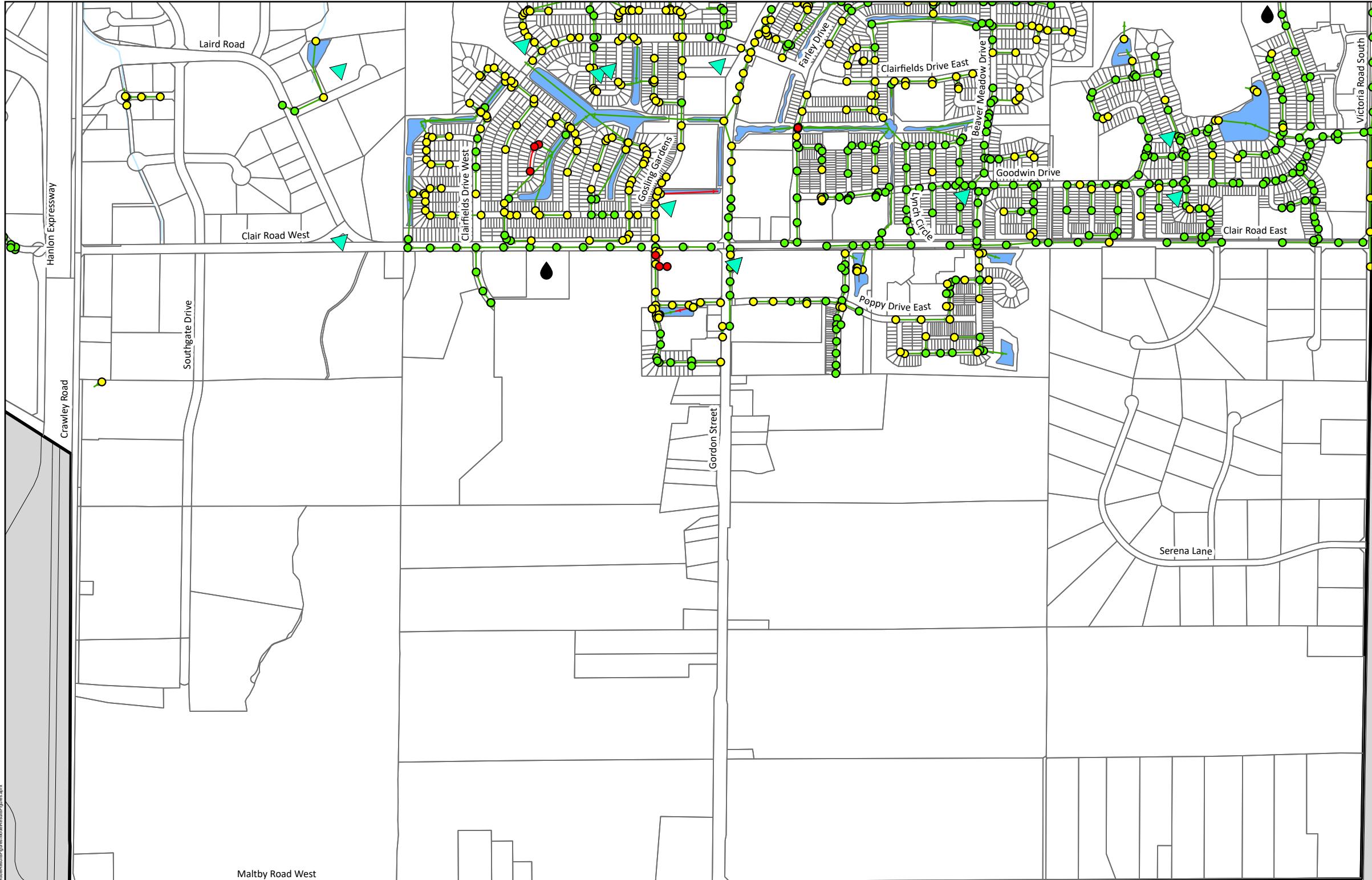


Figure
**Storm Sewer 28mm Synthetic Storm
5-Year Conditions**

Date: 2022-09-23
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 95 190 380
Meters





Legend

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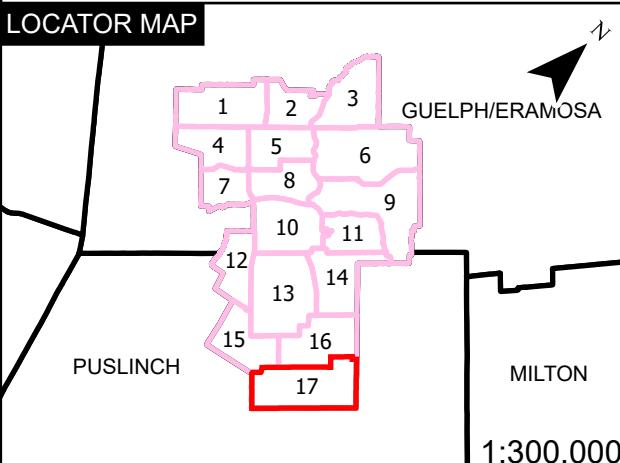


Figure
**Storm Sewer 28mm Synthetic Storm
5-Year Conditions**

Date: 2022-09-23
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 125 250 500
Meters



TOWNSHIP OF GUELPH/ERAMOSA

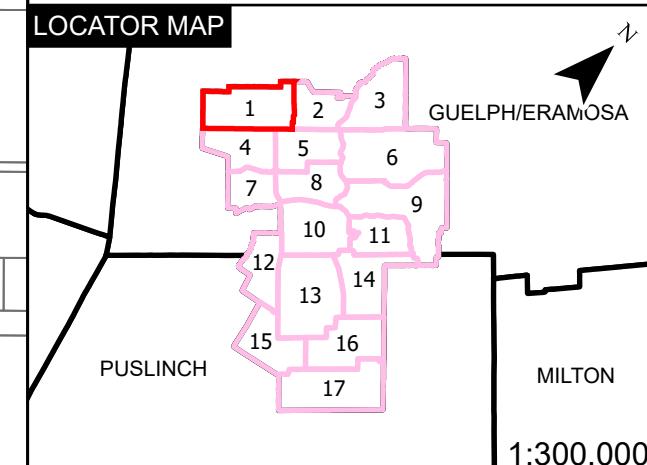
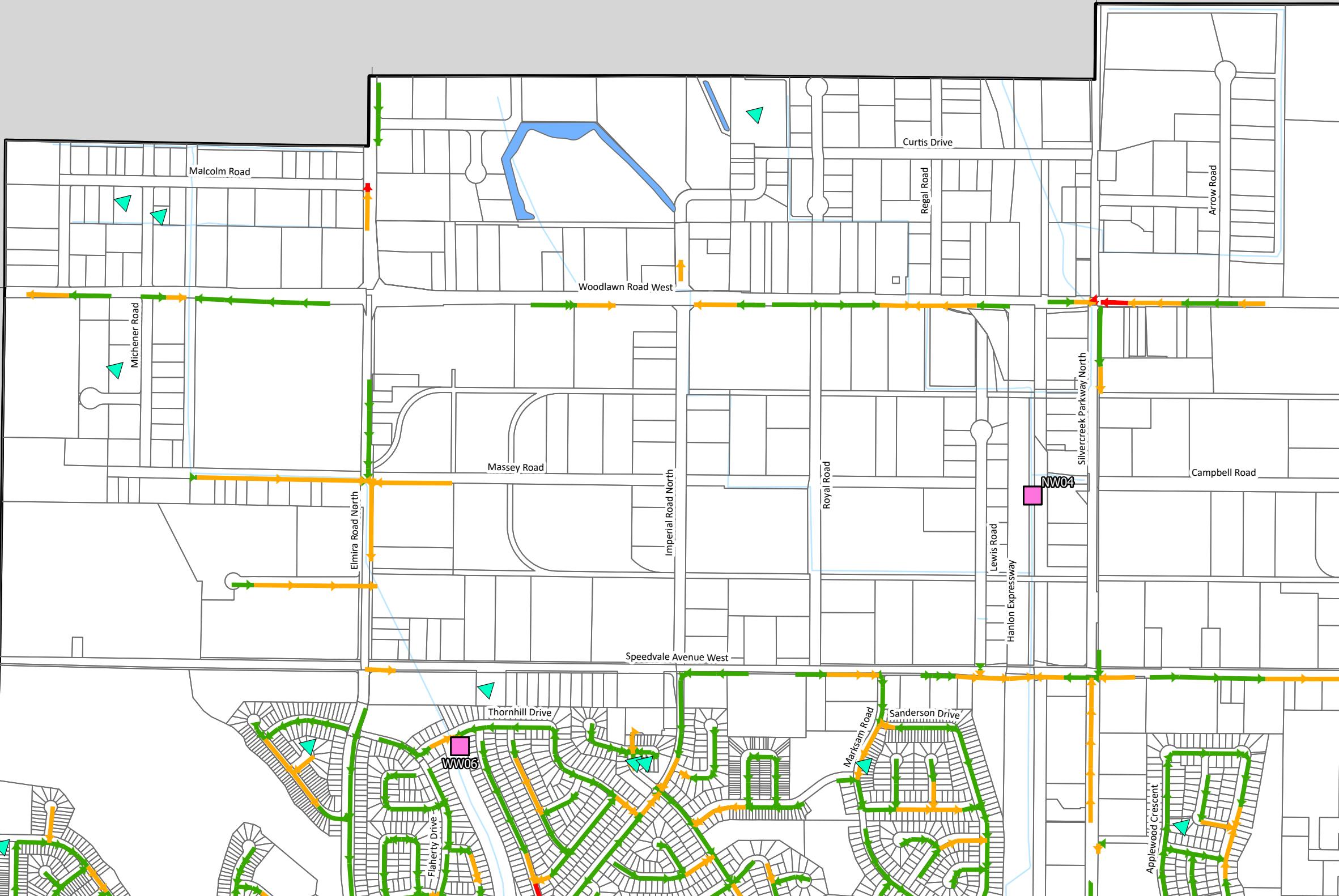
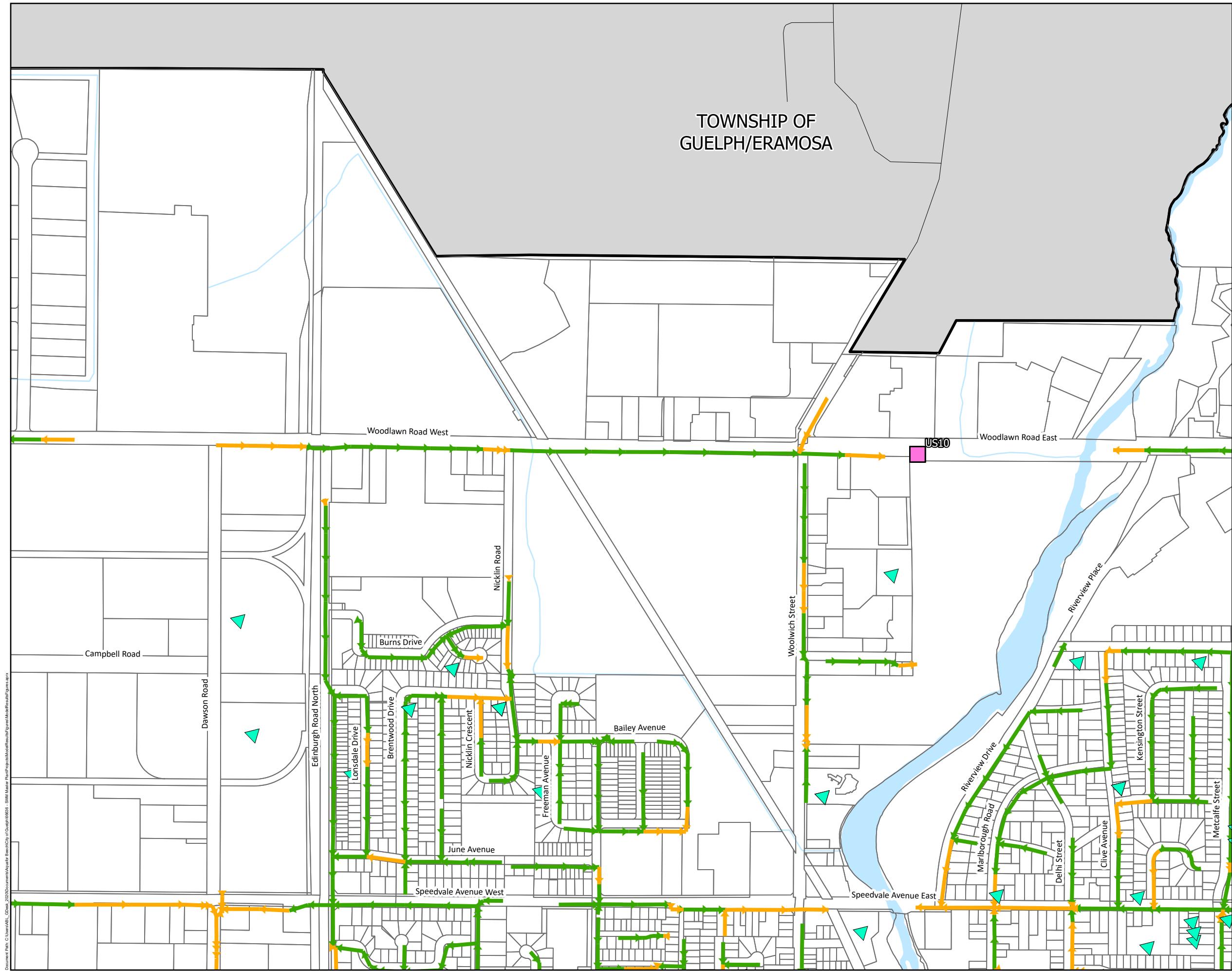


Figure
**Overland 28mm Synthetic Storm
100-Year Conditions**

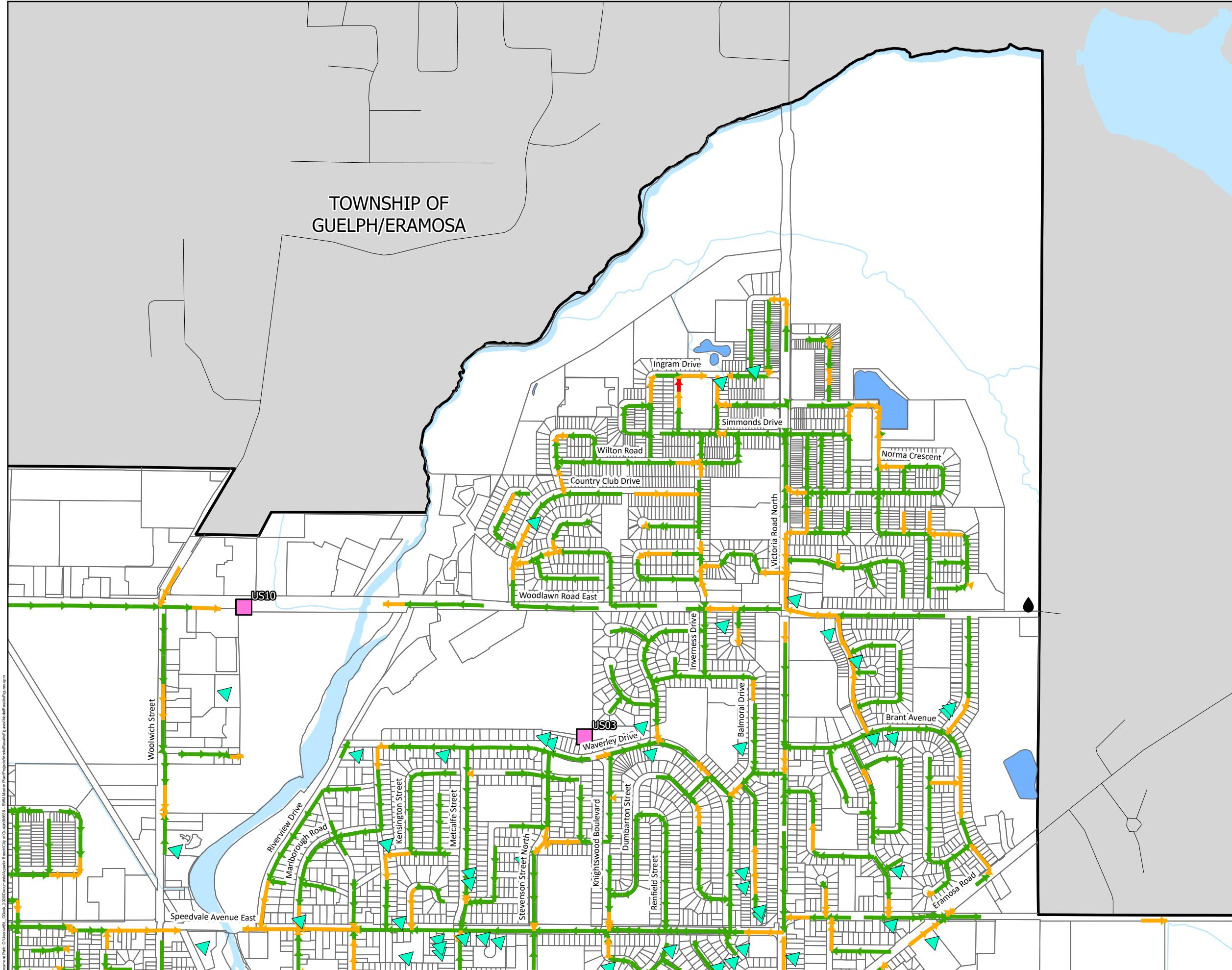
Date: 2022-09-20
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 112.5 225 450 Meters





TOWNSHIP OF
GUELPH/ERAMOSA



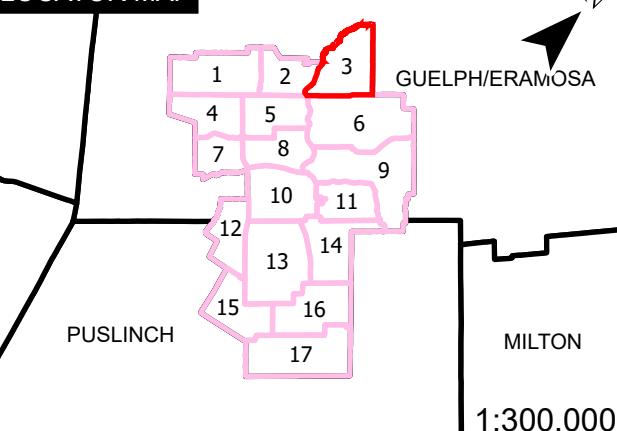
Legend

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Overland Flooding Depth(m):

- >0.3m
- 0.15m - 0.3m
- 0 - 0.15m

LOCATOR MAP



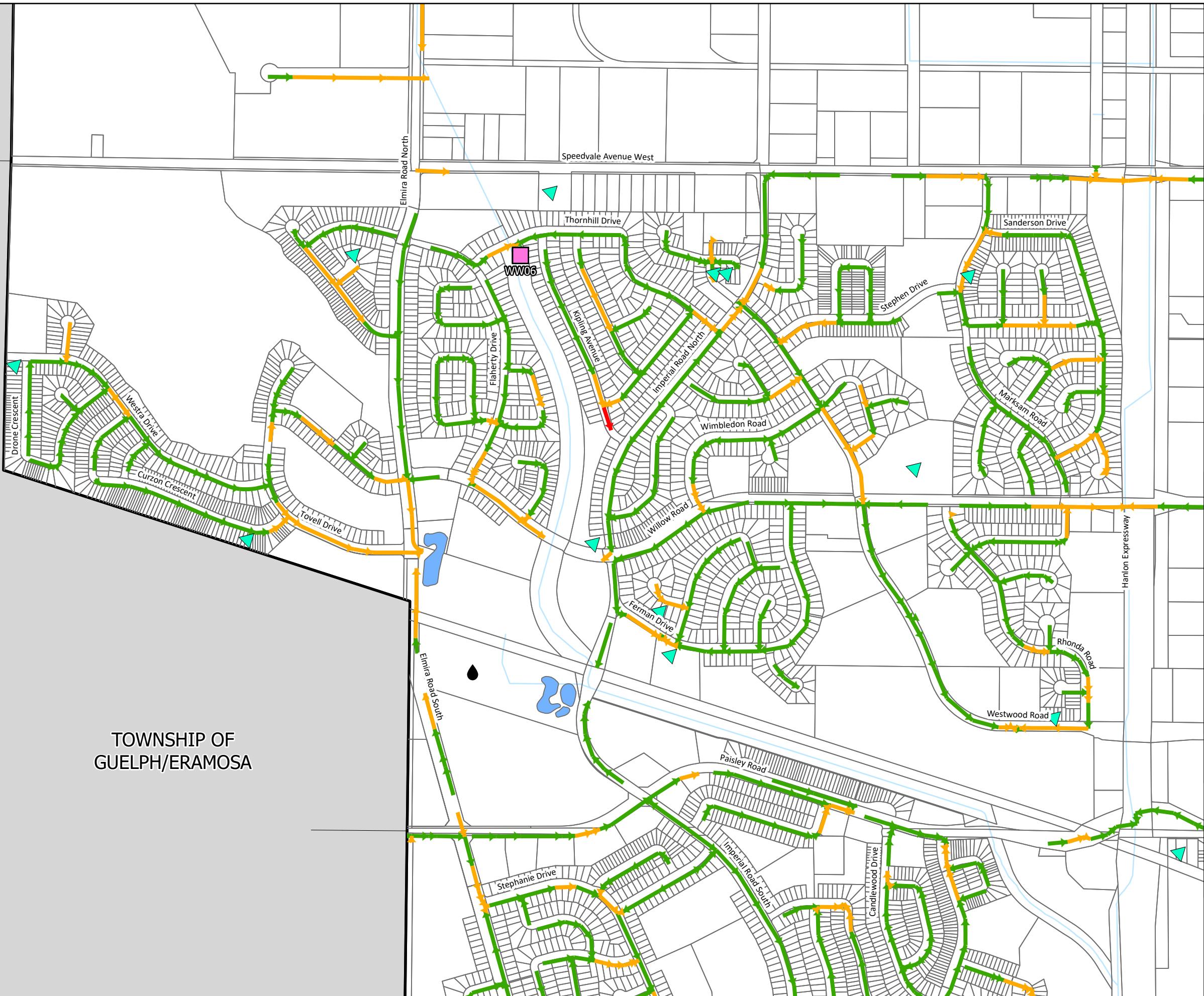
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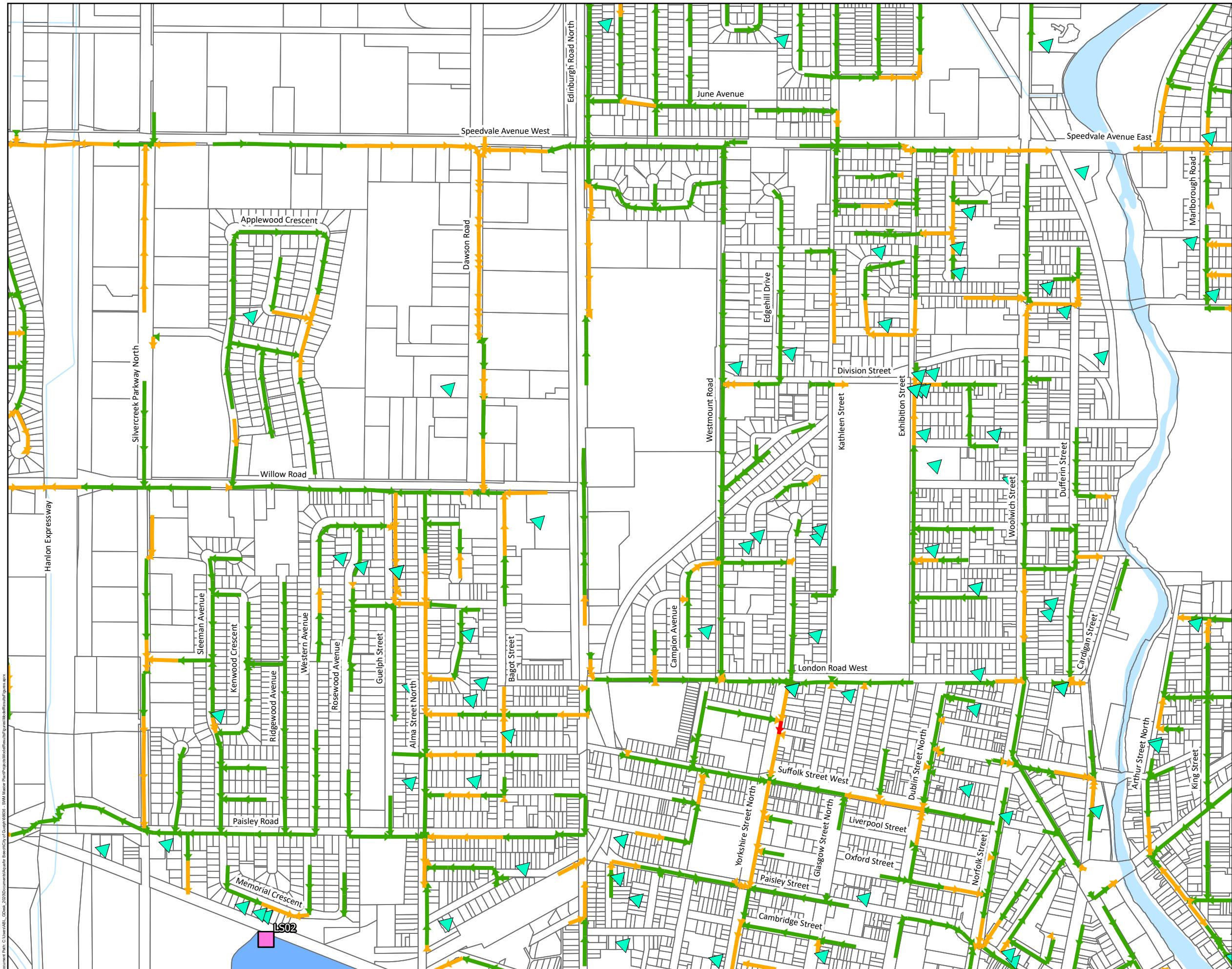
Overland 28mm Synthetic Storm
100-Year Conditions

Date: 2022-09-20
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 110 220 440
Meters







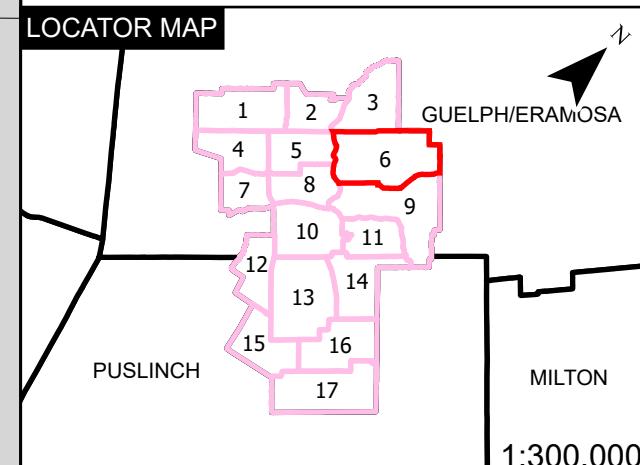
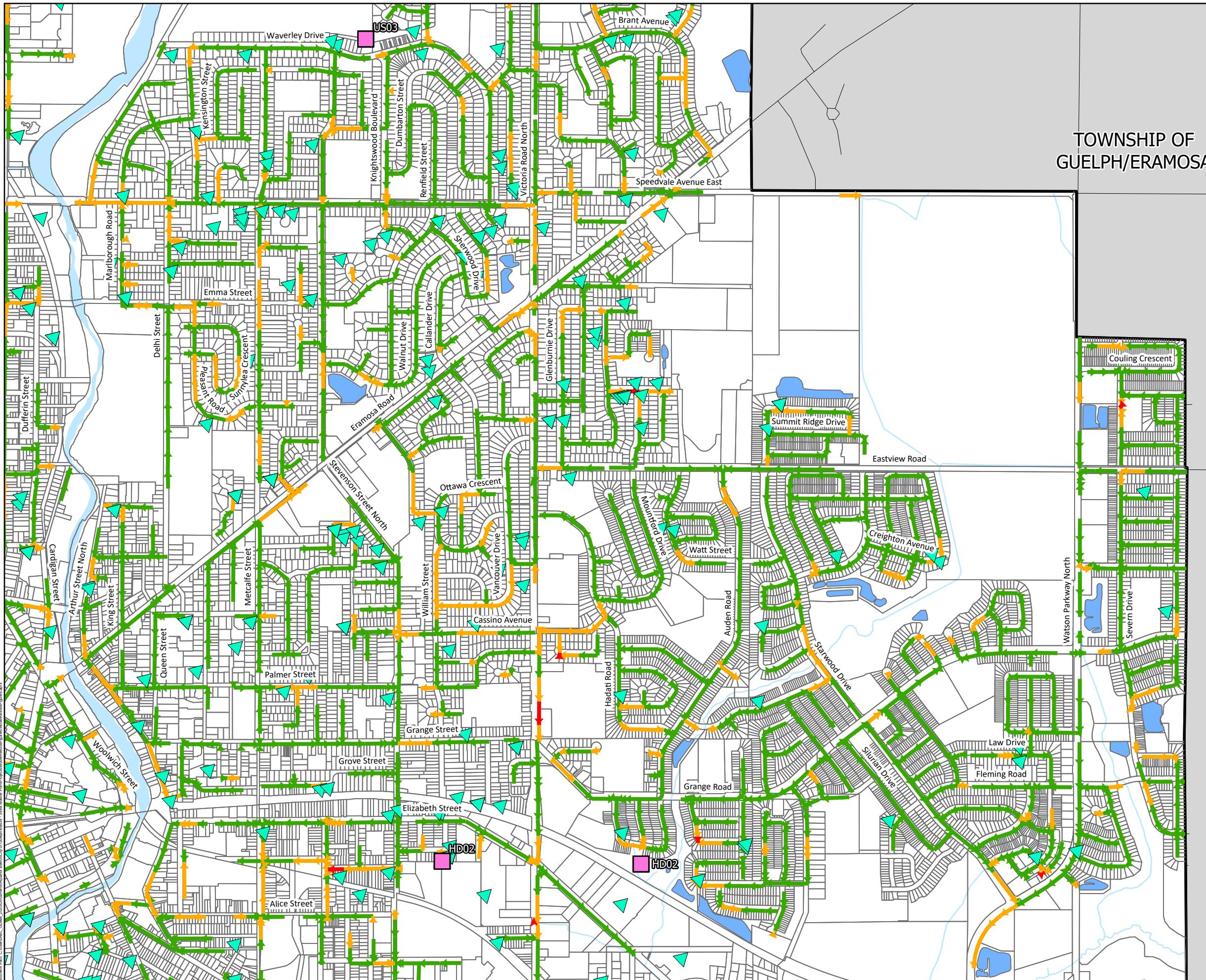
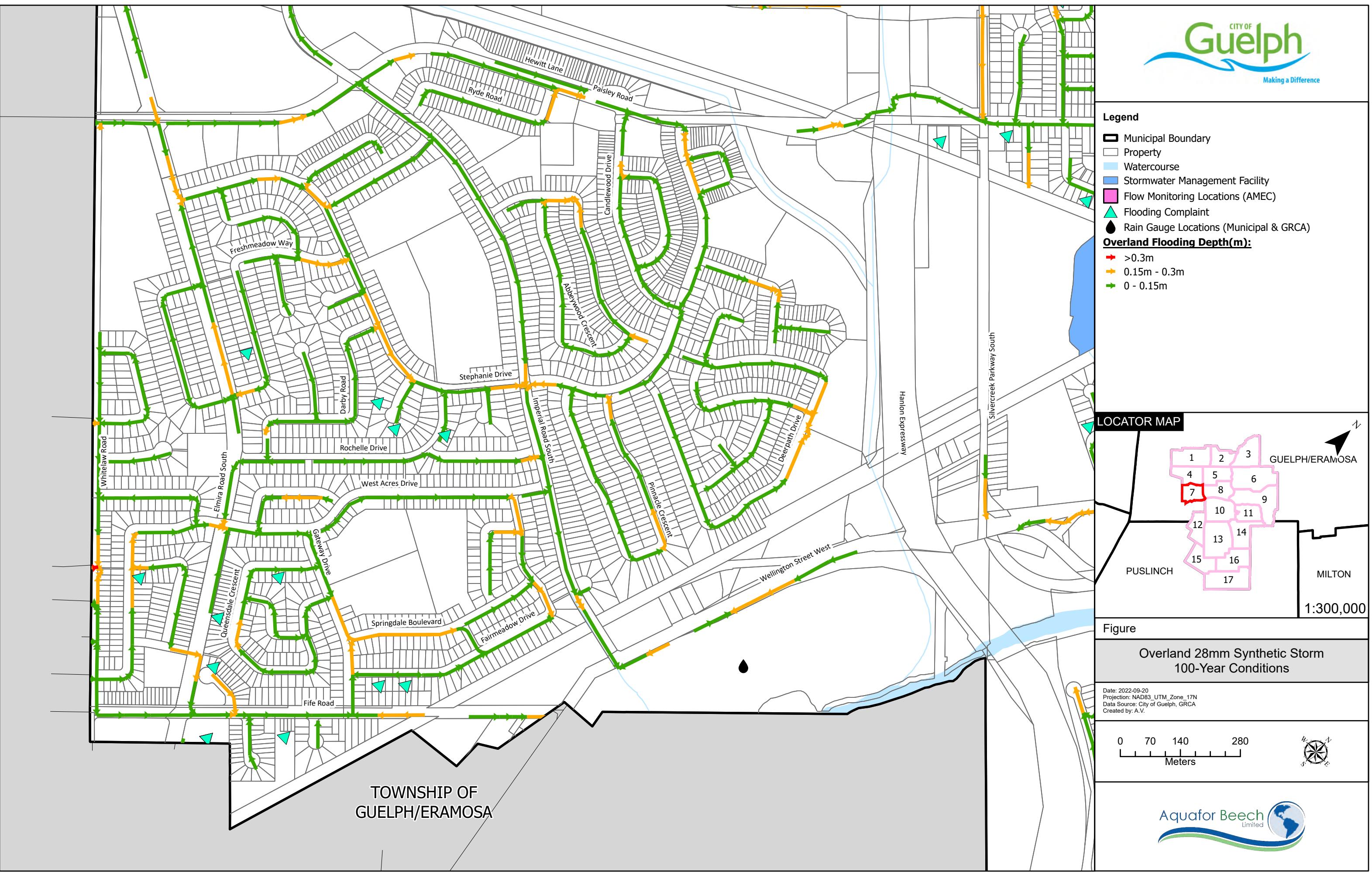
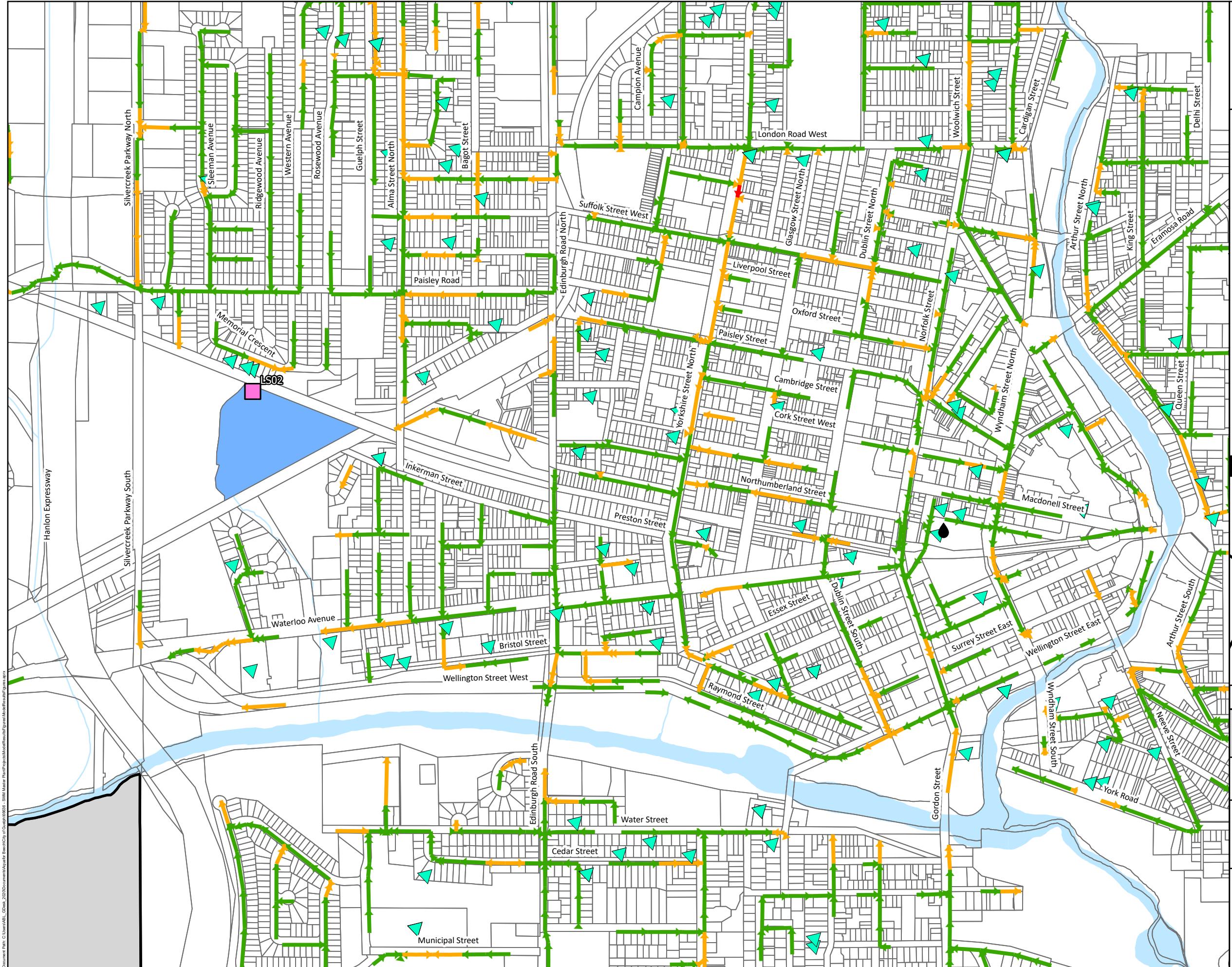


Figure
**Overland 28mm Synthetic Storm
100-Year Conditions**

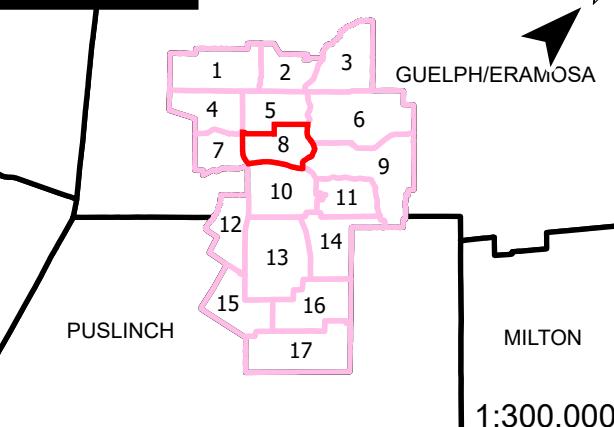
Date: 2022-09-20
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 130 260 520
Meters





LOCATOR MAP



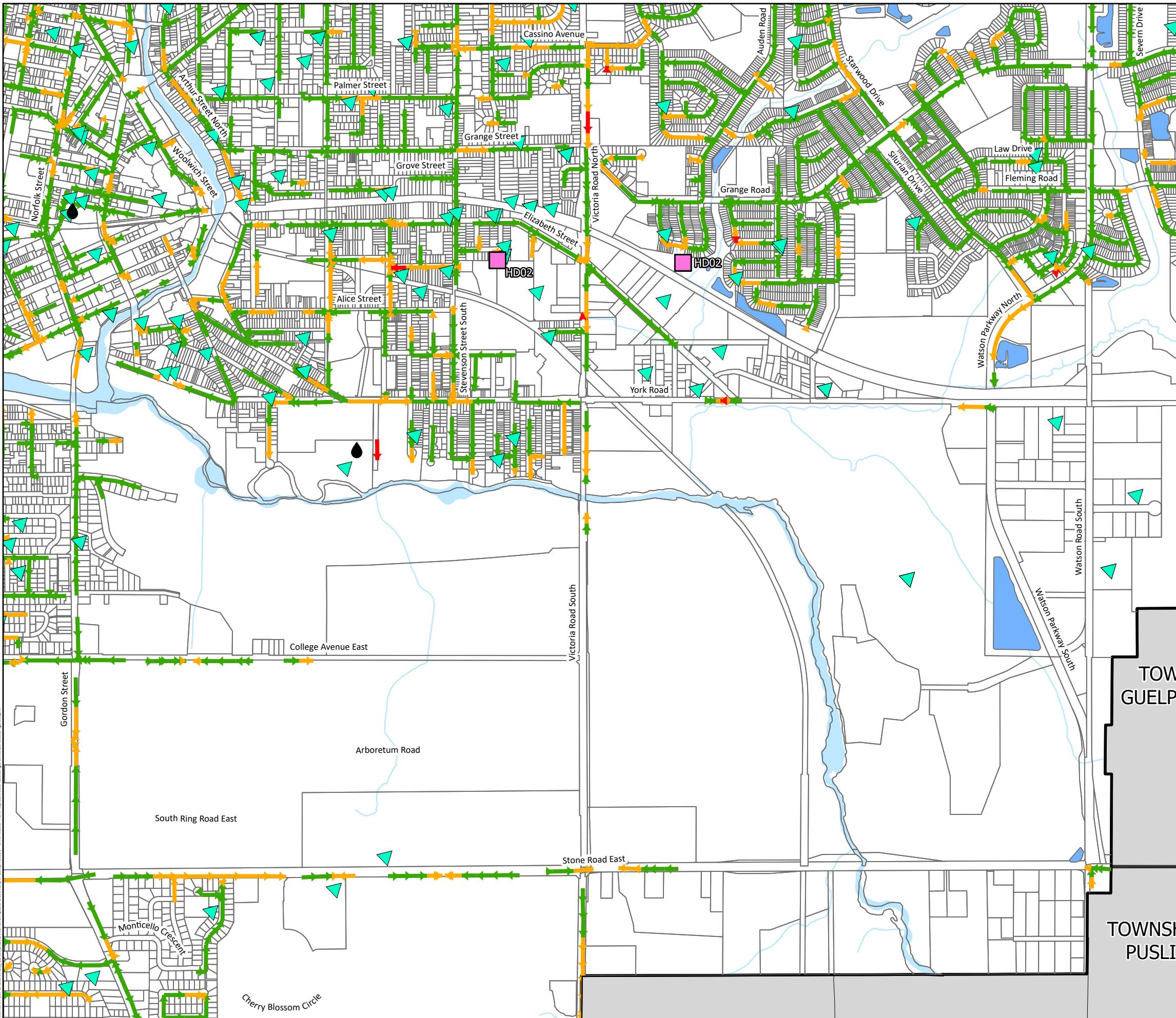
Figure

Overland 28mm Synthetic Storm 100-Year Conditions

Date: 2022-09-20
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 87.5 175 350
Meters





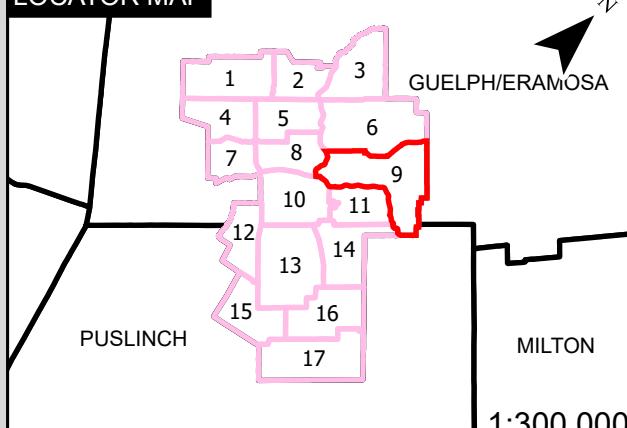
Legend

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Overland Flooding Depth(m):

- >0.3m
- 0.15m - 0.3m
- 0 - 0.15m

LOCATOR MAP



Figure

Overland 28mm Synthetic Storm
100-Year Conditions

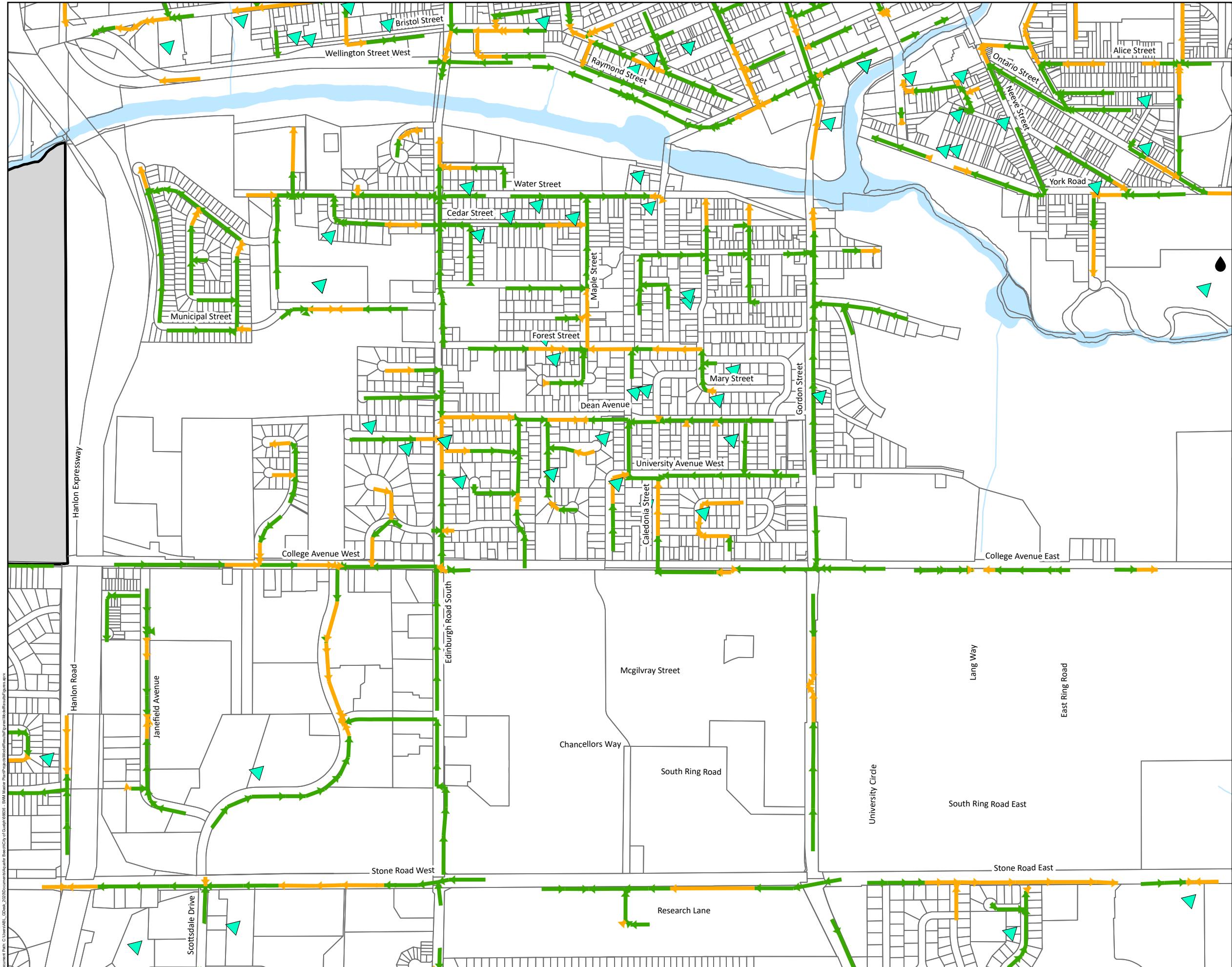
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Projection: NAD83_UTM_Zone_17N
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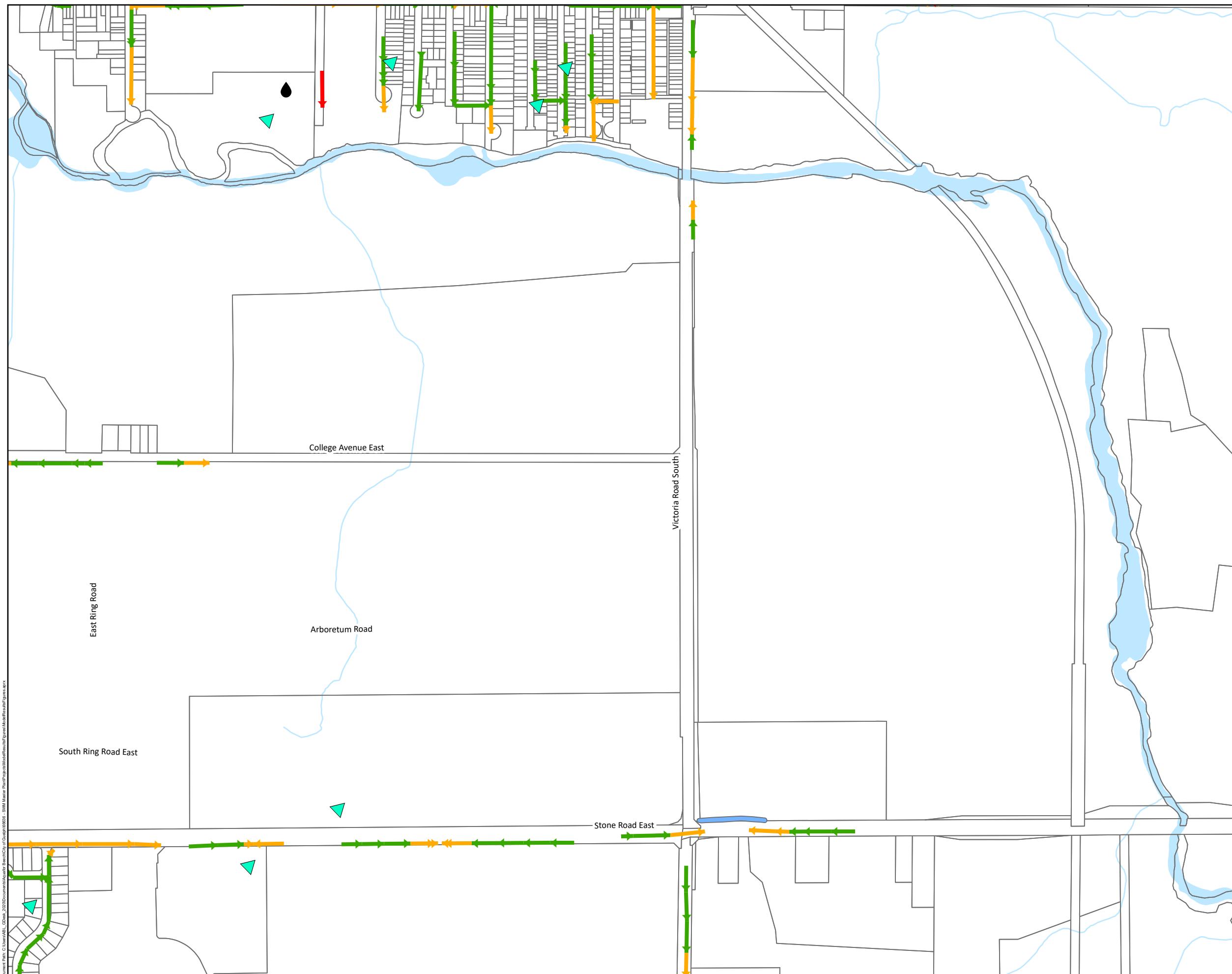
0 145 290 580
Meters



TOWNSHIP OF
GUELPH/ERAMOSA

TOWNSHIP OF
PUSLINCH





Legend

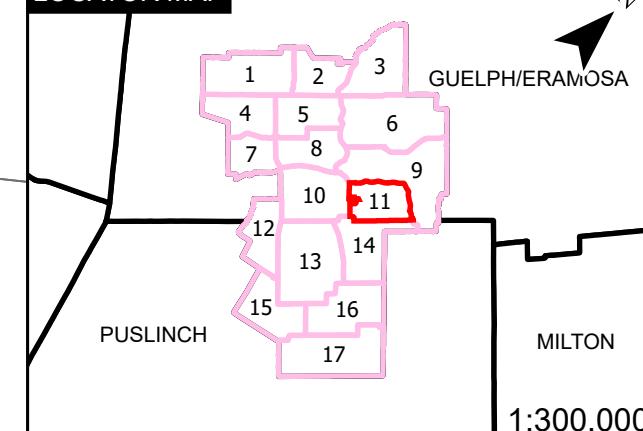
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Overland Flooding Depth(m):

→ >0.3m

- > 0.3m
 - 0.15m - 0.3m
 - 0 - 0.15m

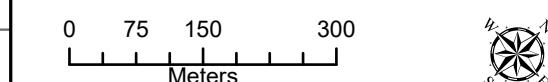
LOCATOR MAP



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Overland 28mm Synthetic Storm 100-Year Conditions

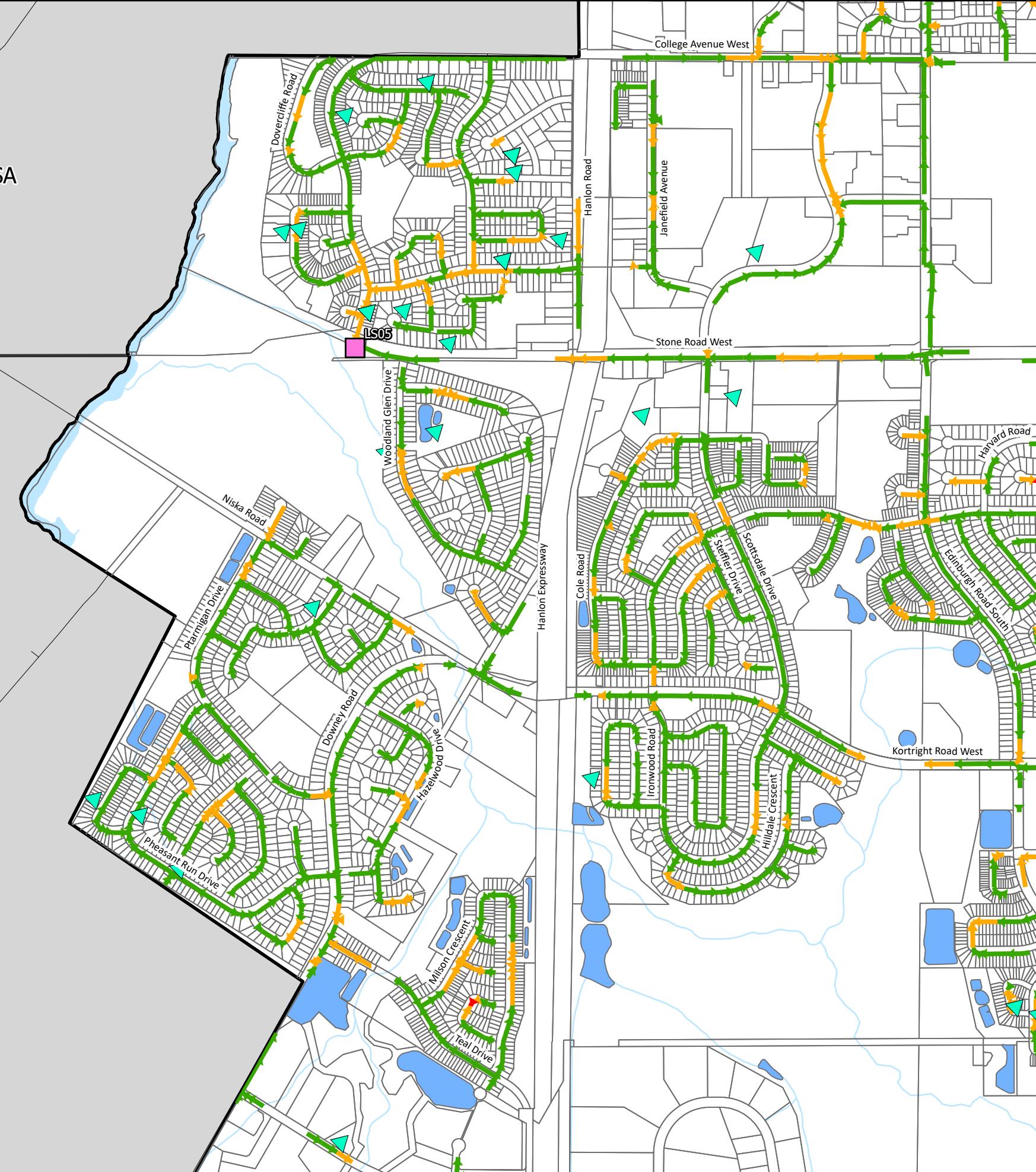
Date: 2022-09-20
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.



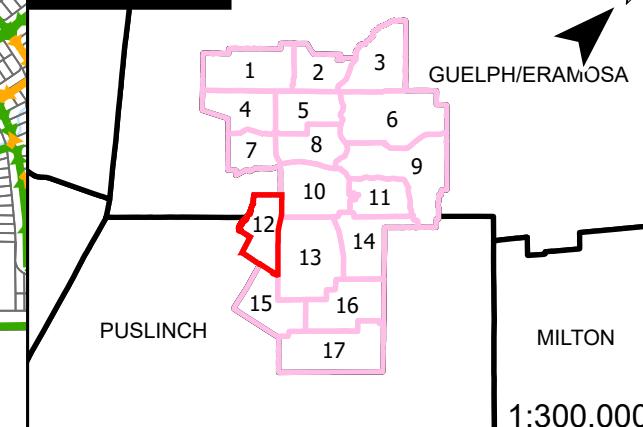
TOWNSHIP OF
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TOWNSHIP OF
PUSLINCH

Document Ref: C:\Users\AB_GIS\Documents\Aquafor Beech\2020\2020 Document\Aquafor Beech\City of Guelph\ERAMOSA\Stormwater Management Plan\Project Model Results\FloodResults\Figures\8.mxd



LOCATOR MAP



1:300,000

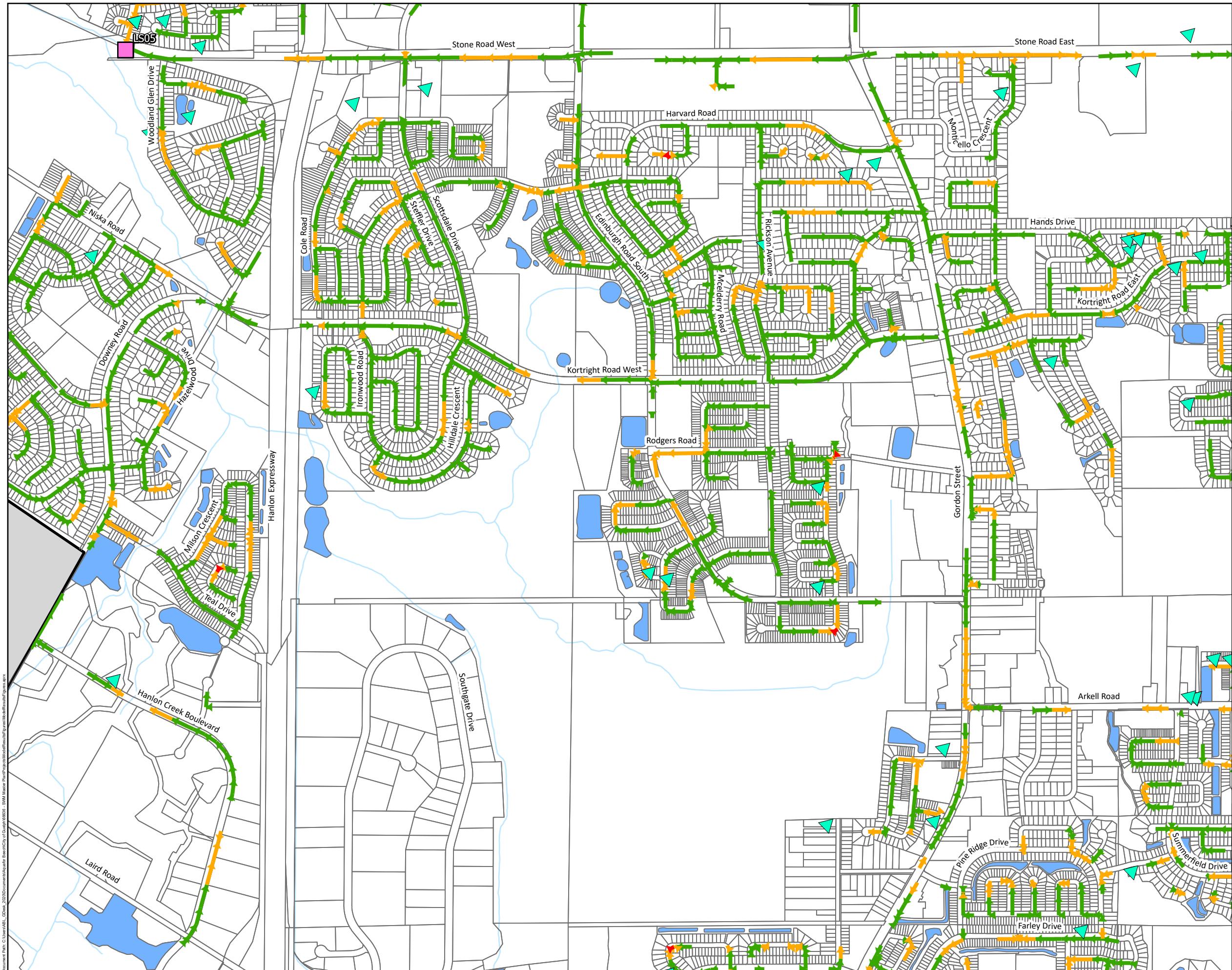
Figure

Overland 28mm Synthetic Storm
100-Year Conditions

Date: 2022-09-20
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 125 250 500
Meters





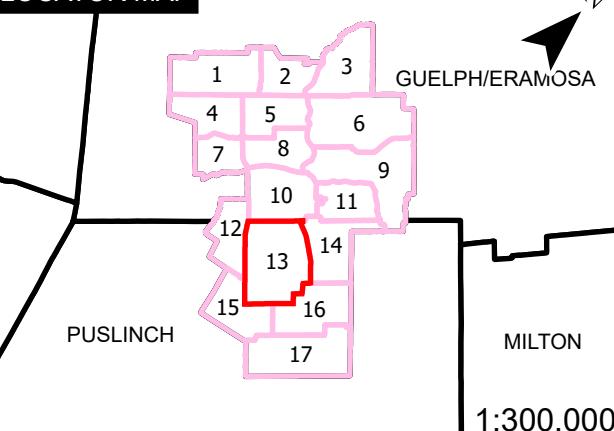
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Overland Flooding Depth(m):

- >0.3m
- 0.15m - 0.3m
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LOCATOR MAP



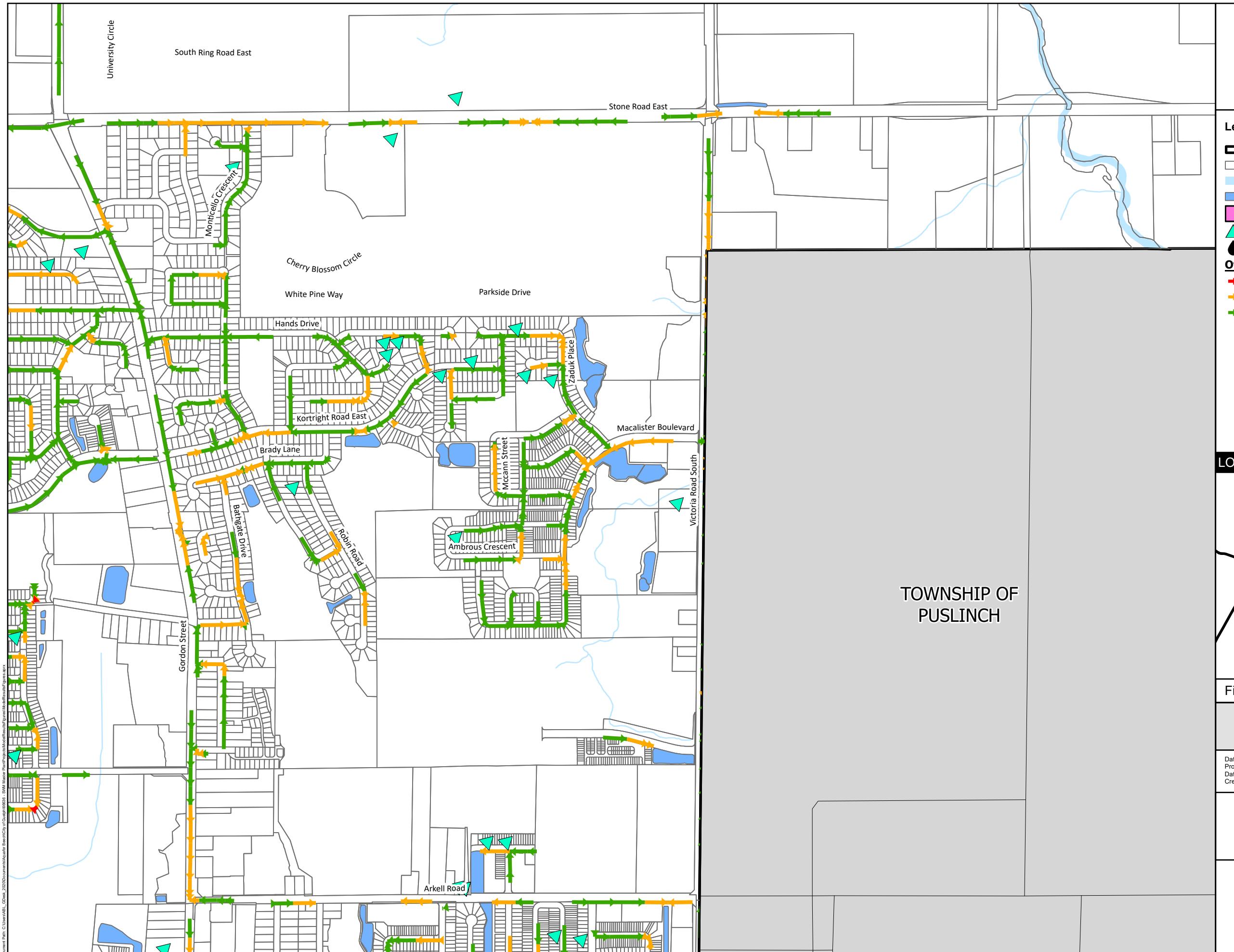
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100-Year Conditions

Date: 2022-09-20
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 130 260 520
Meters





Legend

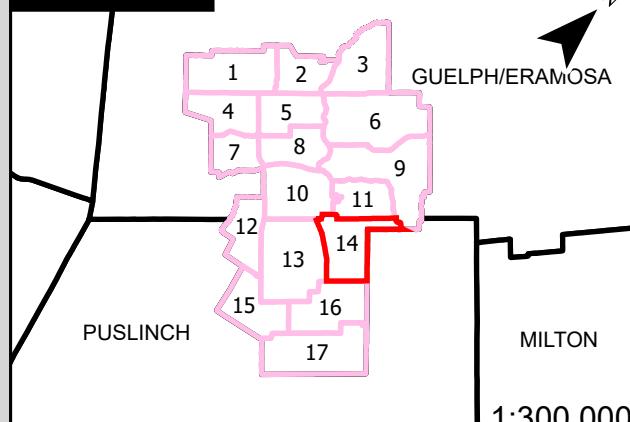
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Overland Flooding Depth(m):

$\geq 0.3m$

- > 0.3m
 - 0.15m - 0.3m
 - 0 - 0.15m

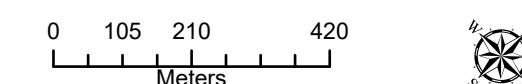
LOCATOR MAP

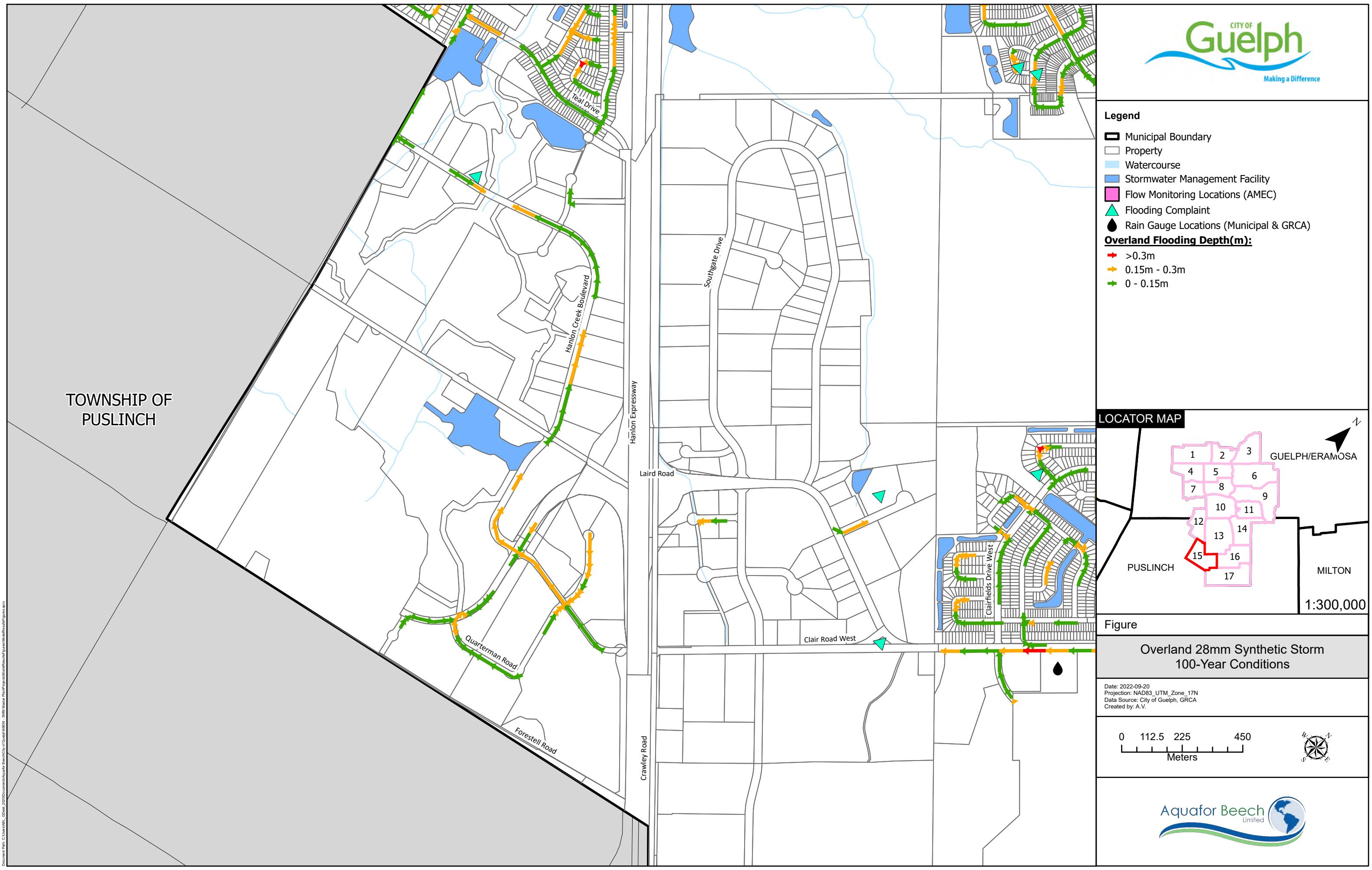


Figure

Overland 28mm Synthetic Storm
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- Watercourse
- Stormwater Management Facility
- Flow Monitoring Locations (AMEC)
- Flooding Complaint
- Rain Gauge Locations (Municipal & GRCA)

Overland Flooding Depth(m):

- >0.3m
- 0.15m - 0.3m
- 0 - 0.15m

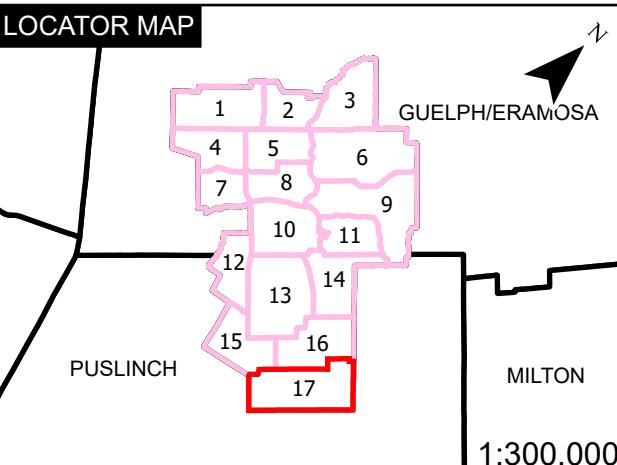
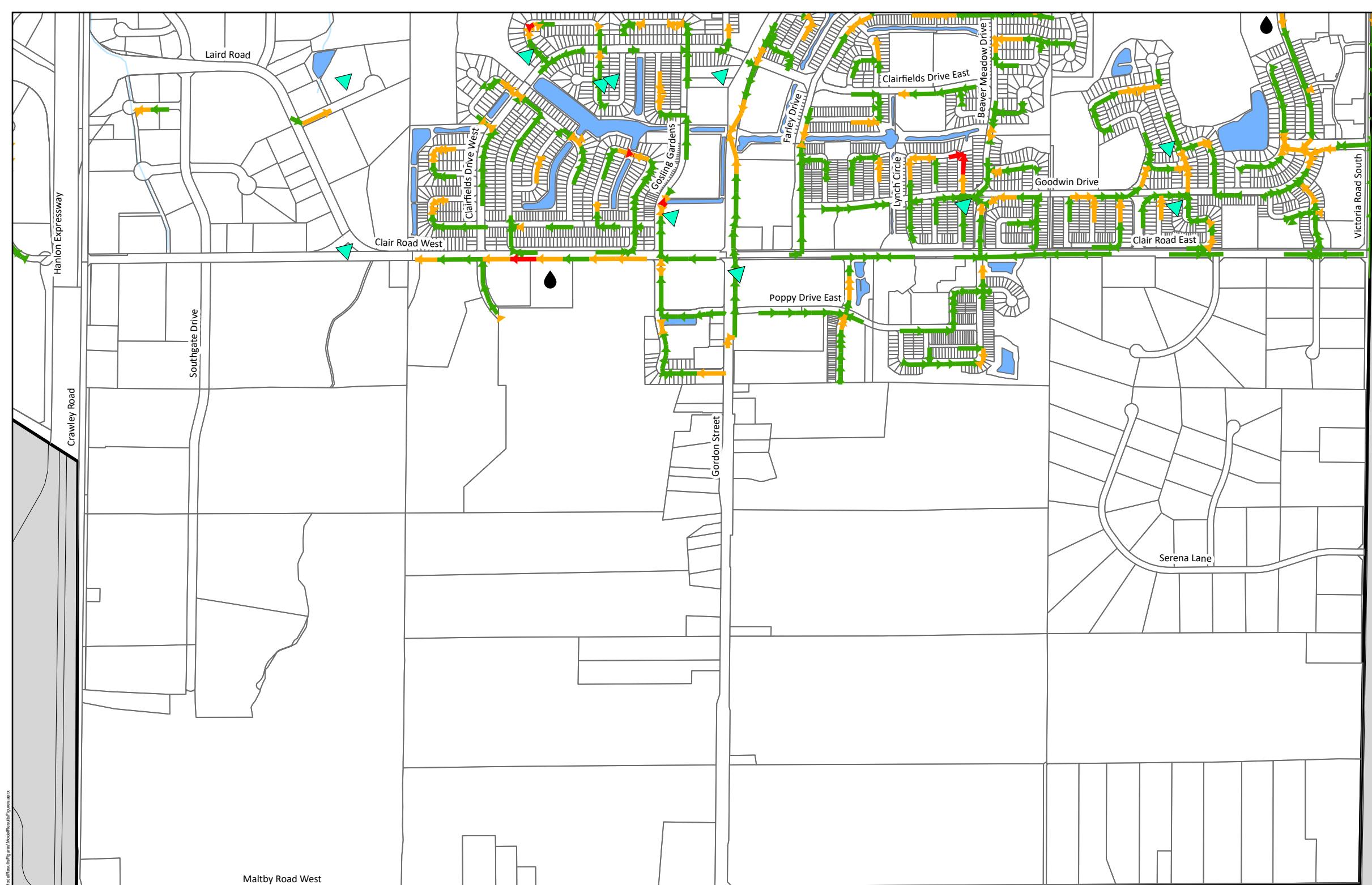


Figure
Overland 28mm Synthetic Storm
100-Year Conditions

Date: 2022-09-20
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

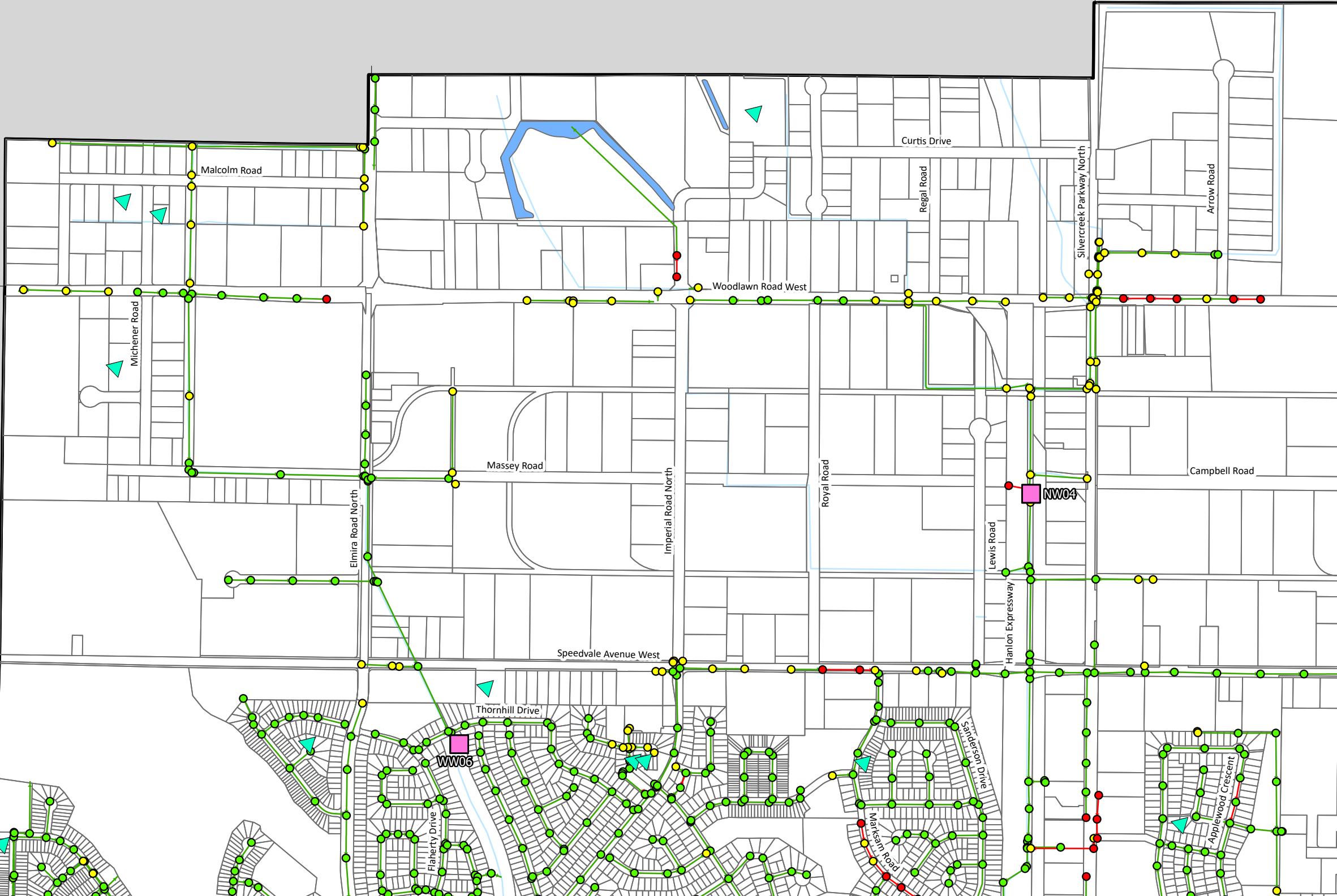
0 125 250 500
Meters



TOWNSHIP OF
PUSLINCH

Appendix C6: Scenario 6 Green Infrastructure (5mm Volume Control)

TOWNSHIP OF
GUELPH/ERAMOSA



Legend

- Municipal Boundary
- Property
- Watercourse
- Stormwater Management Facility
- Flow Monitoring Locations (AMEC)
- Rain Gauge Locations (Municipal & GRCA)
- Flooding Complaint

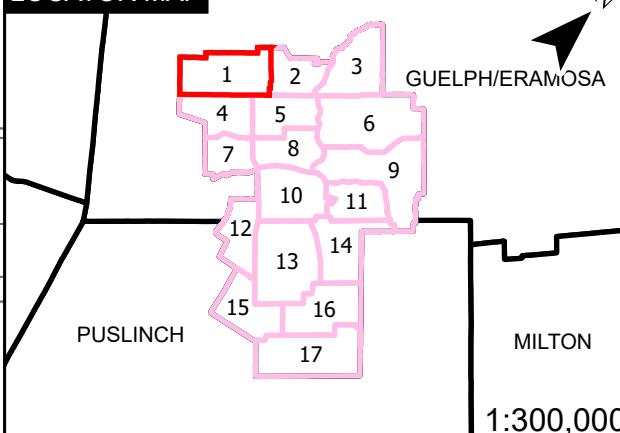
Stormwater Sewer:

- Unsurcharged
- Surcharged (Bottleneck)

Node Hydraulic Grade Line:

- At or Above Surface
- 0-1.8m Below Ground Surface
- > 1.8m Below Ground Surface

LOCATOR MAP



Figure

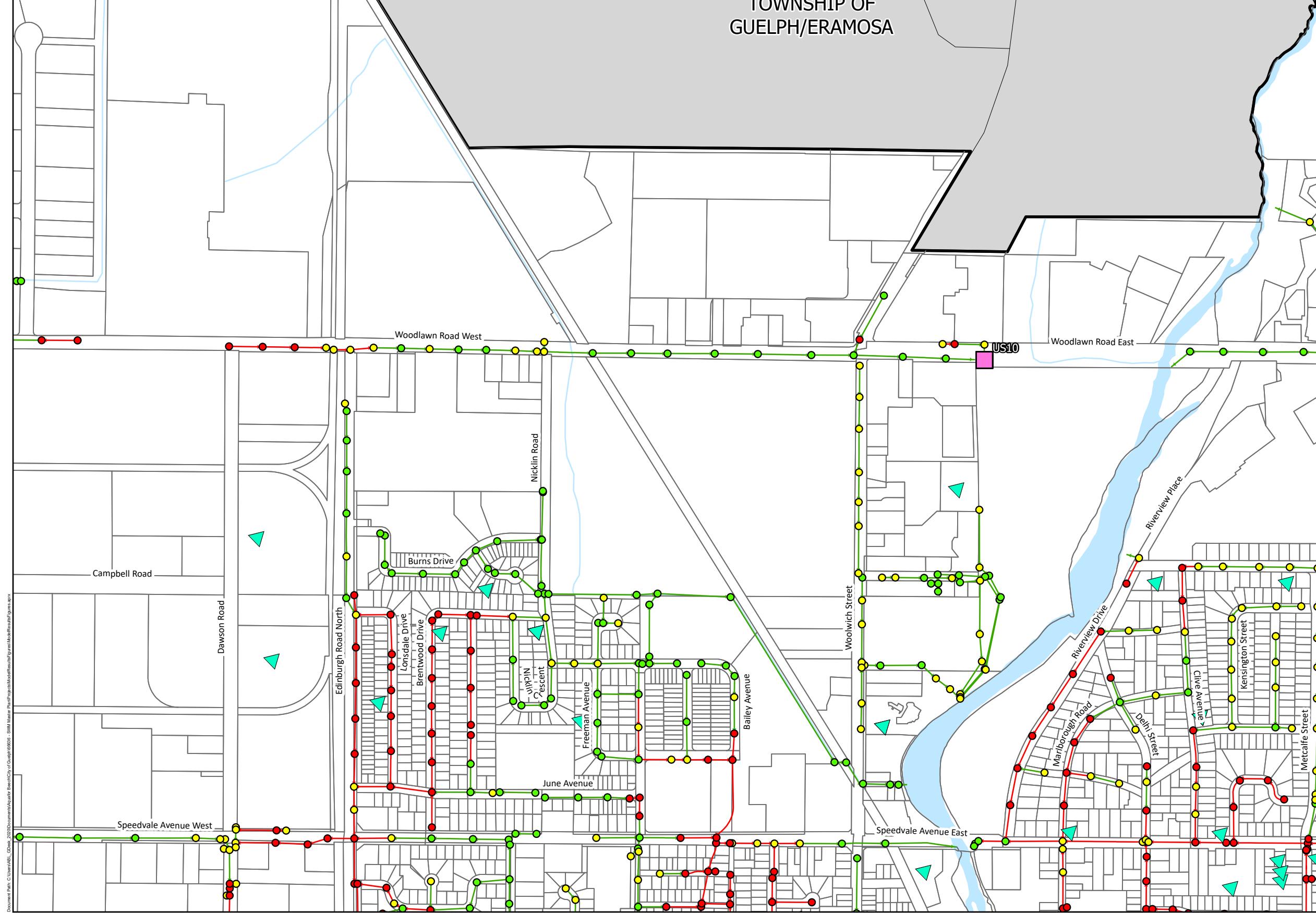
Storm Sewer 5mm Synthetic Storm
5-Year Conditions

Date: 2022-09-23
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 112.5 225 450
Meters



TOWNSHIP OF
GUELPH/ERAMOSA



Legend

- Municipal Boundary
- Property
- Watercourse
- Stormwater Management Facility
- Flow Monitoring Locations (AMEC)
- Rain Gauge Locations (Municipal & GRCA)
- Flooding Complaint

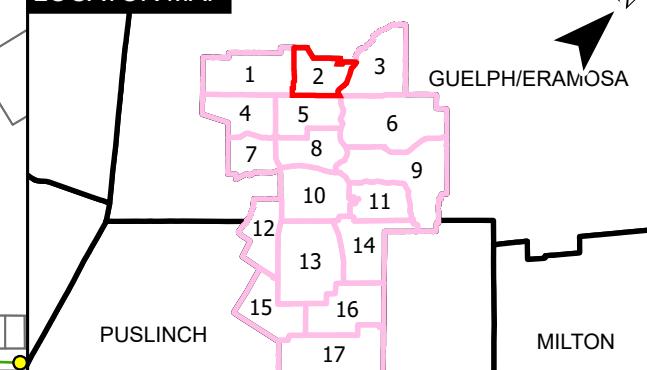
Stormwater Sewer:

- Uncharged
- Surcharged (Bottleneck)

Node Hydraulic Grade Line:

- At or Above Surface
- 0-1.8m Below Ground Surface
- > 1.8m Below Ground Surface

LOCATOR MAP



1:300,000

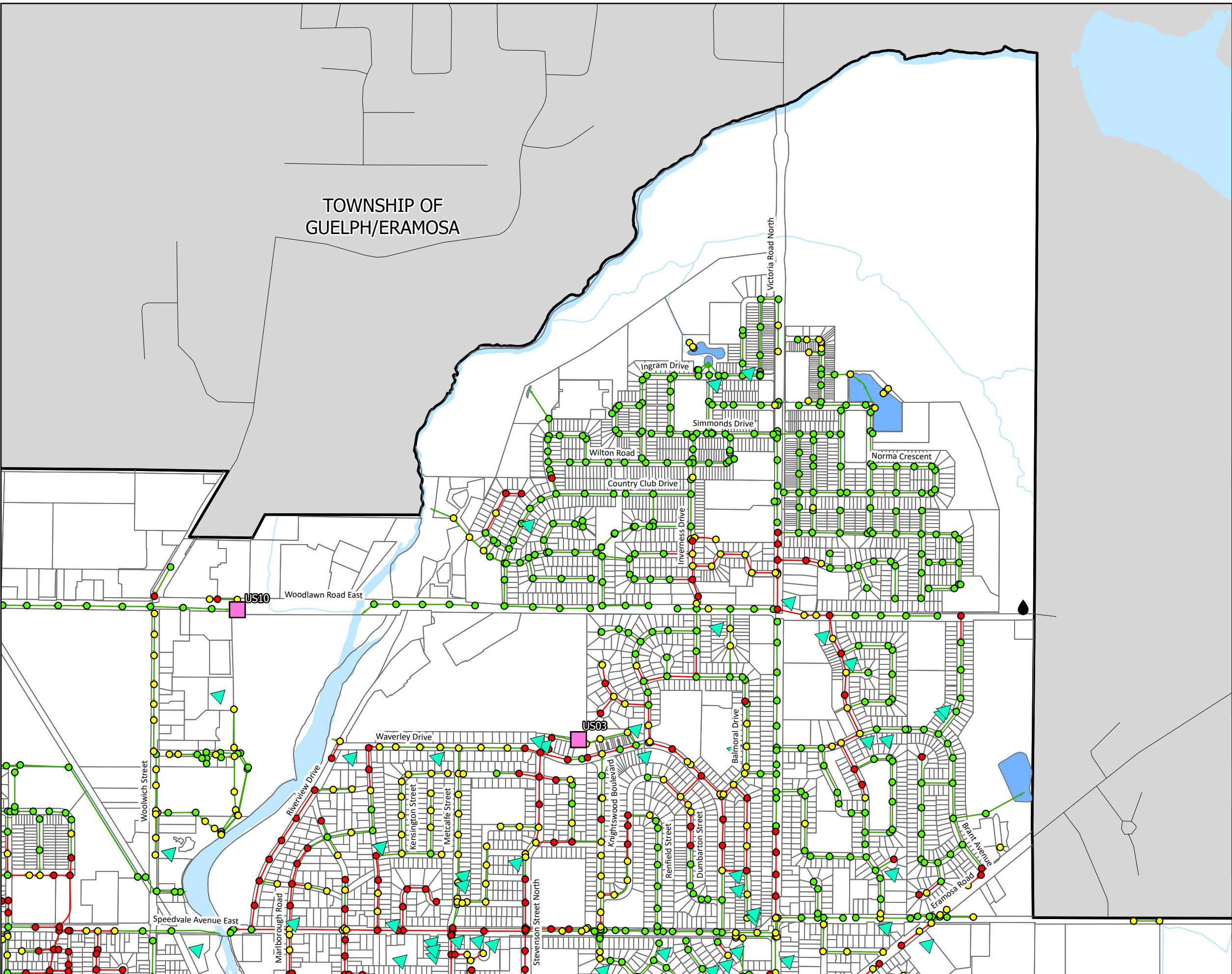
Figure

Storm Sewer 5mm Synthetic Storm
5-Year Conditions

Date: 2022-09-23
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 75 150 300
Meters





Legend

- Municipal Boundary
- Property
- Watercourse
- Stormwater Management Facility
- Flow Monitoring Locations (AMEC)
- Rain Gauge Locations (Municipal & GRCA)
- Flooding Complaint

Stormwater Sewer:

- Unsurcharged
- Surcharged (Bottleneck)

Node Hydraulic Grade Line:

- At or Above Surface
- 0-1.8m Below Ground Surface
- >1.8m Below Ground Surface

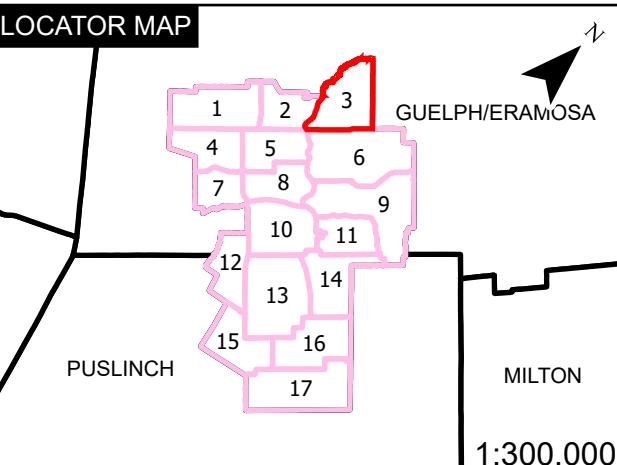
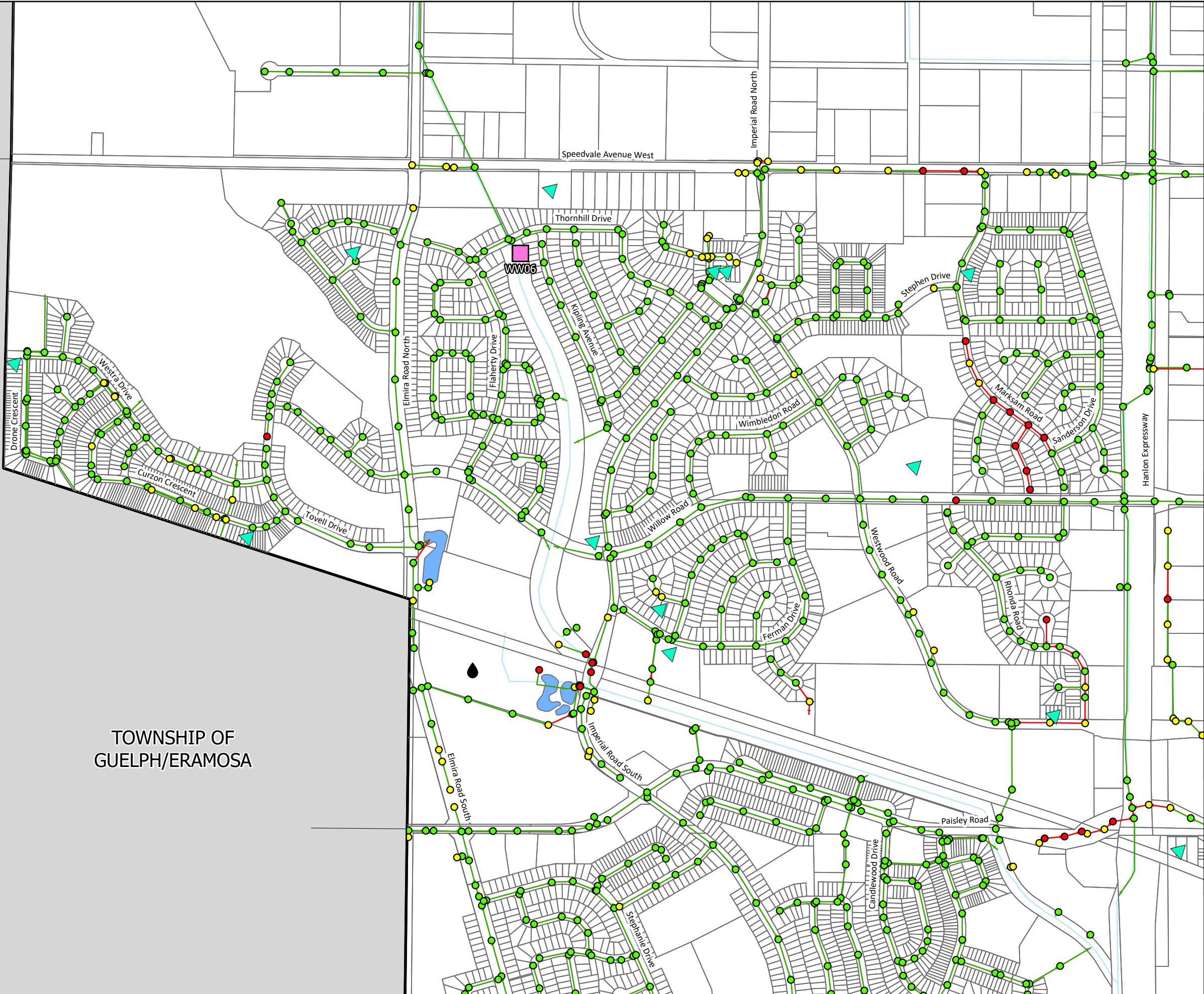


Figure
**Storm Sewer 5mm Synthetic Storm
5-Year Conditions**

Date: 2022-09-23
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 110 220 440
Meters



TOWNSHIP OF
GUELPH/ERAMOSA

- Legend**
- Municipal Boundary
 - Property
 - Watercourse
 - Stormwater Management Facility
 - Flow Monitoring Locations (AMEC)
 - Rain Gauge Locations (Municipal & GRCA)
 - Flooding Complaint
- Stormwater Sewer:**
- Unsurcharged
 - Surcharged (Bottleneck)
- Node Hydraulic Grade Line:**
- At or Above Surface
 - 0-1.8m Below Ground Surface
 - > 1.8m Below Ground Surface

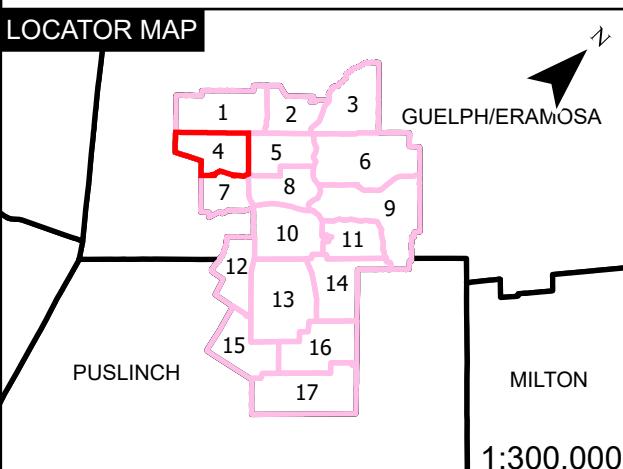
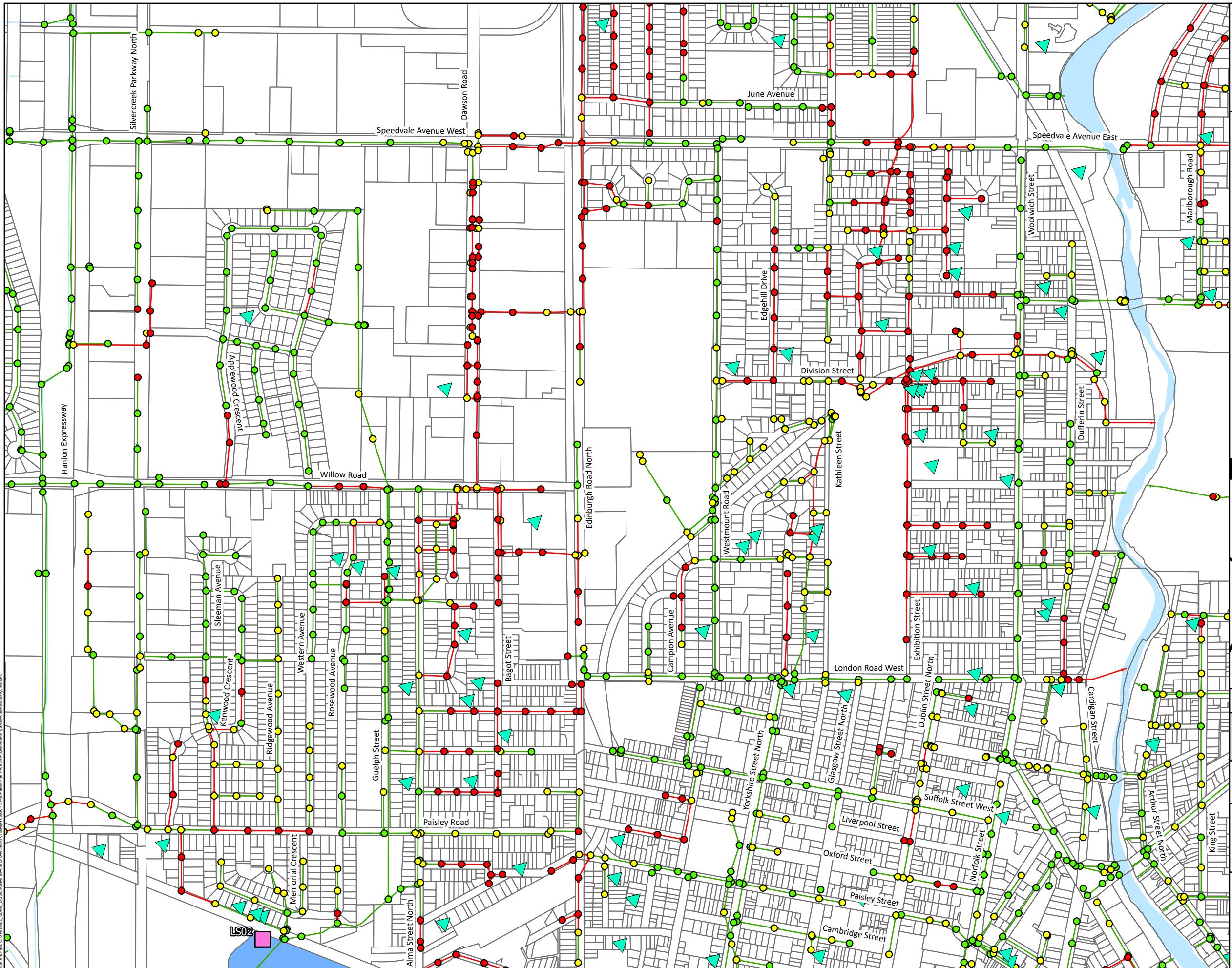


Figure
Storm Sewer 5mm Synthetic Storm
5-Year Conditions

Date: 2022-09-23
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 90 180 360
Meters





Legend

- Municipal Boundary
- Property
- Watercourse
- Stormwater Management Facility
- Flow Monitoring Locations (AMEC)
- Rain Gauge Locations (Municipal & GRCA)
- Flooding Complaint

Stormwater Sewer:

- Unsurcharged
- Surcharged (Bottleneck)

Node Hydraulic Grade Line:

- At or Above Surface
- 0-1.8m Below Ground Surface
- > 1.8m Below Ground Surface

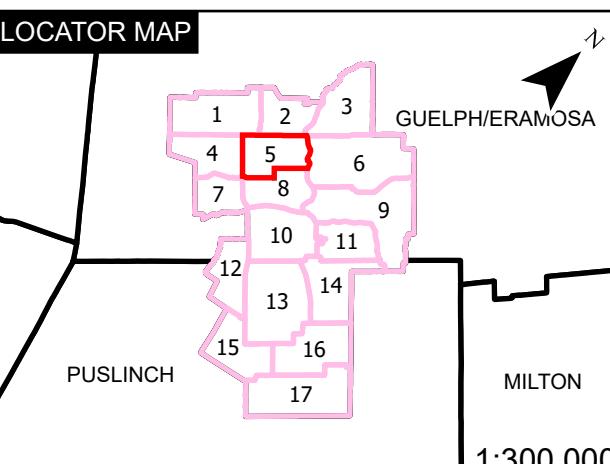
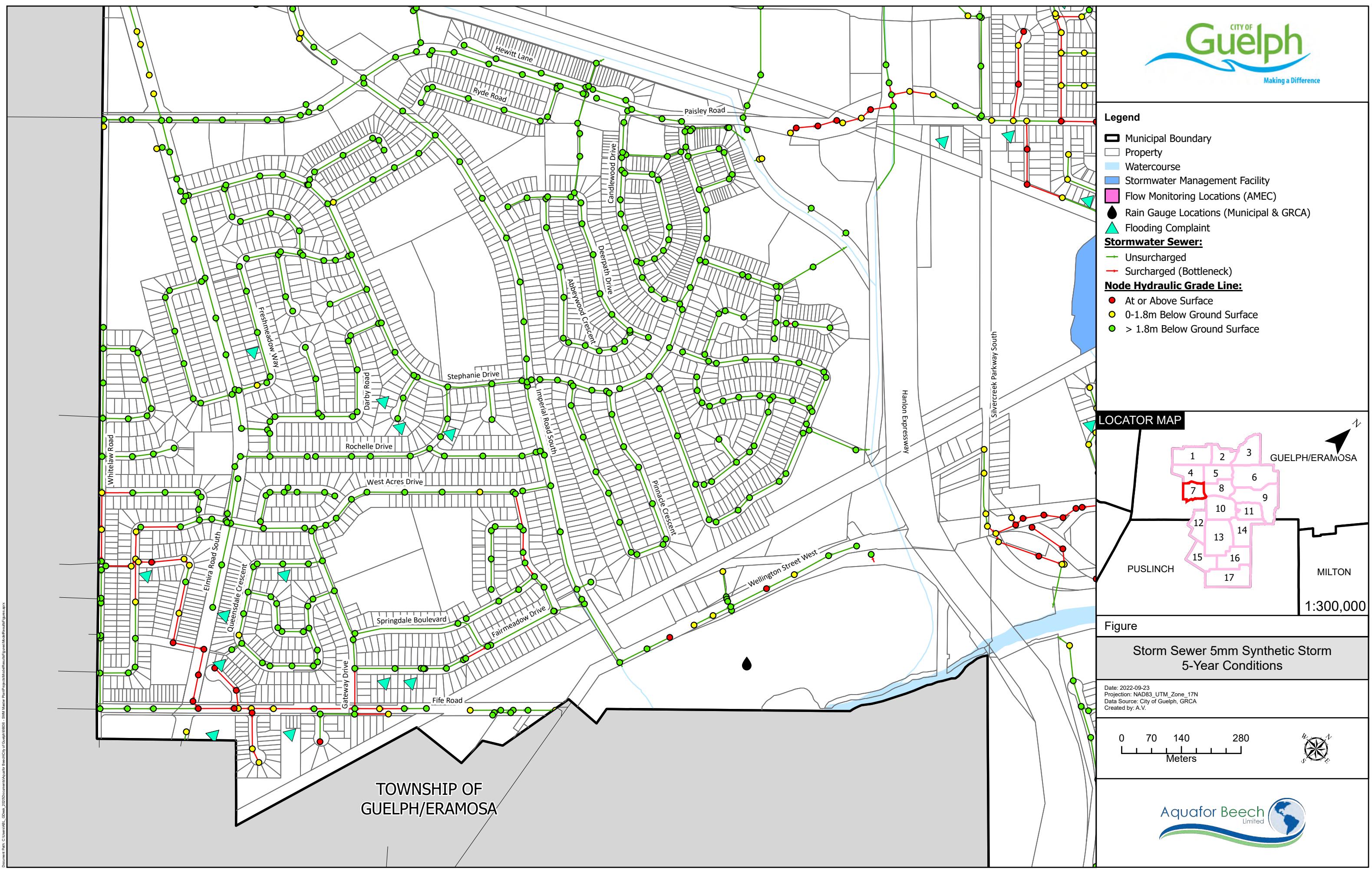


Figure
Storm Sewer 5mm Synthetic Storm
5-Year Conditions

Date: 2022-09-23
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 80 160 320 Meters

Aquafor Beech Limited



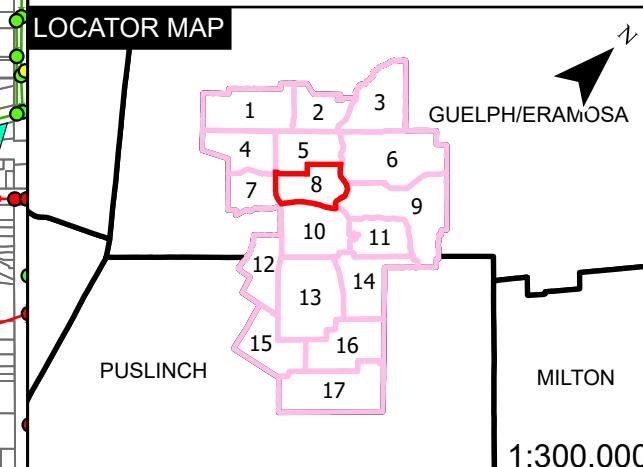
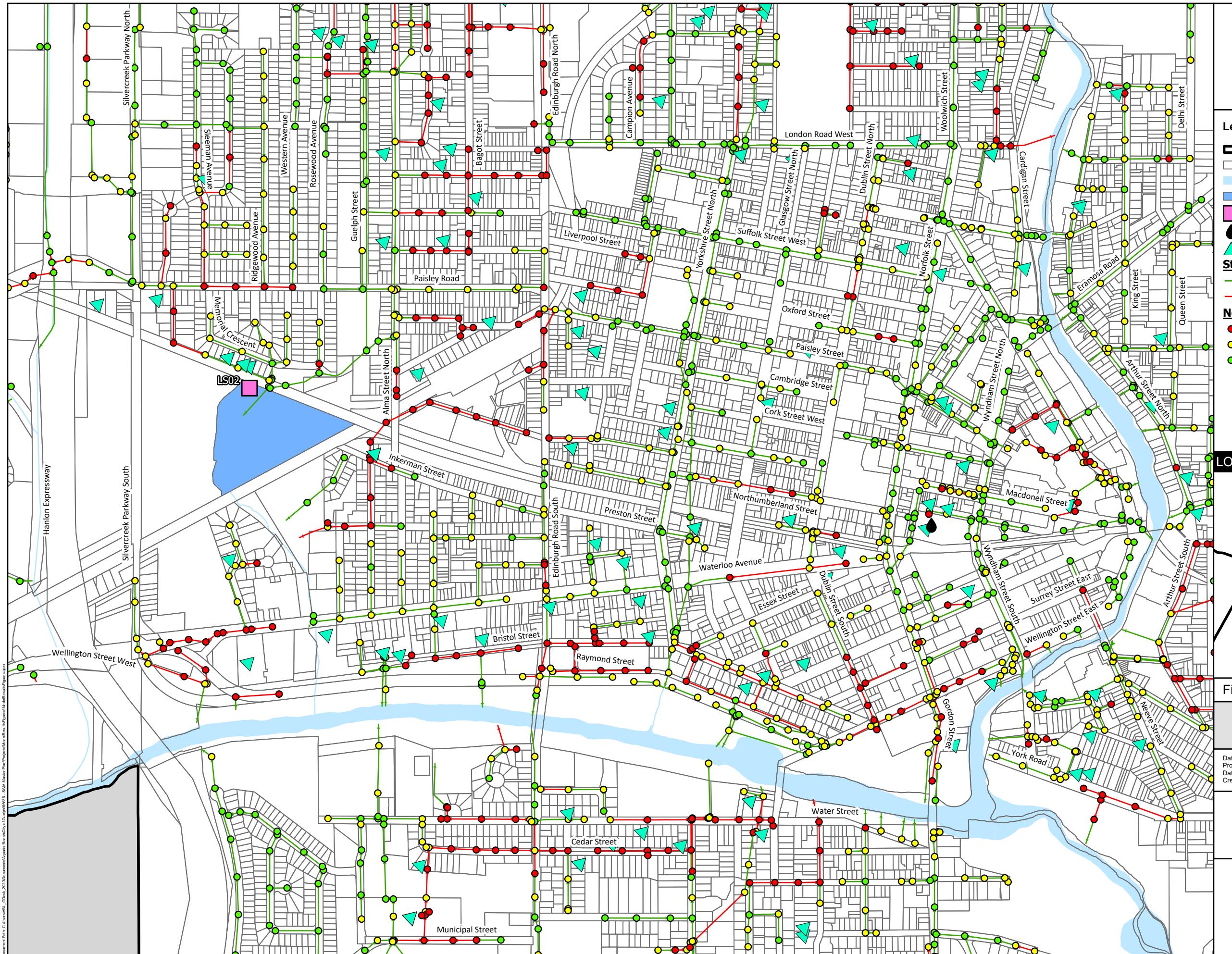
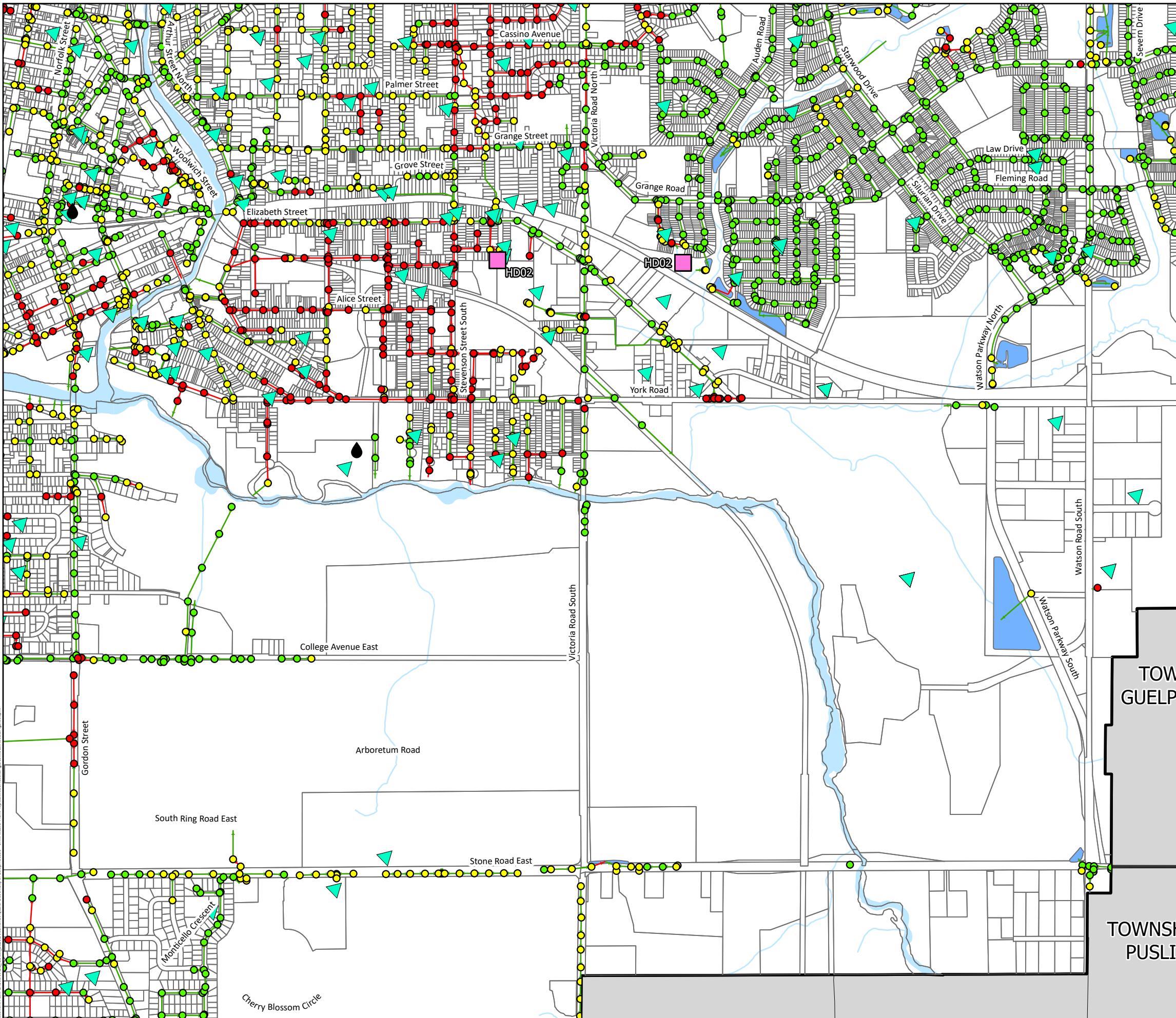


Figure
**Storm Sewer 5mm Synthetic Storm
5-Year Conditions**

Date: 2022-09-23
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 87.5 175 350
Meters





Legend

- Municipal Boundary
- Property
- Watercourse
- Stormwater Management Facility
- Flow Monitoring Locations (AMEC)
- Rain Gauge Locations (Municipal & GRCA)
- Flooding Complaint

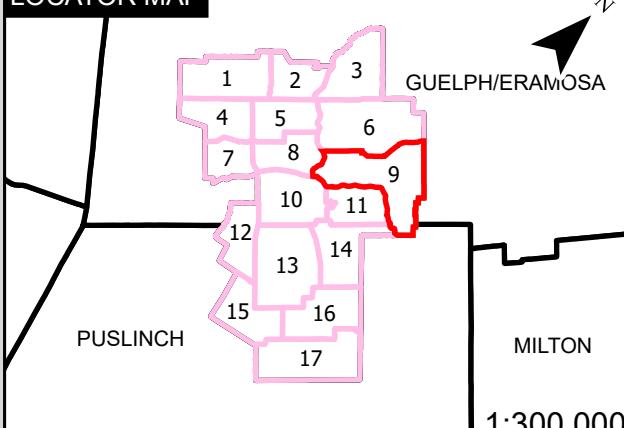
Stormwater Sewer:

- Unsurcharged
- Surcharged (Bottleneck)

Node Hydraulic Grade Line:

- At or Above Surface
- 0-1.8m Below Ground Surface
- > 1.8m Below Ground Surface

LOCATOR MAP



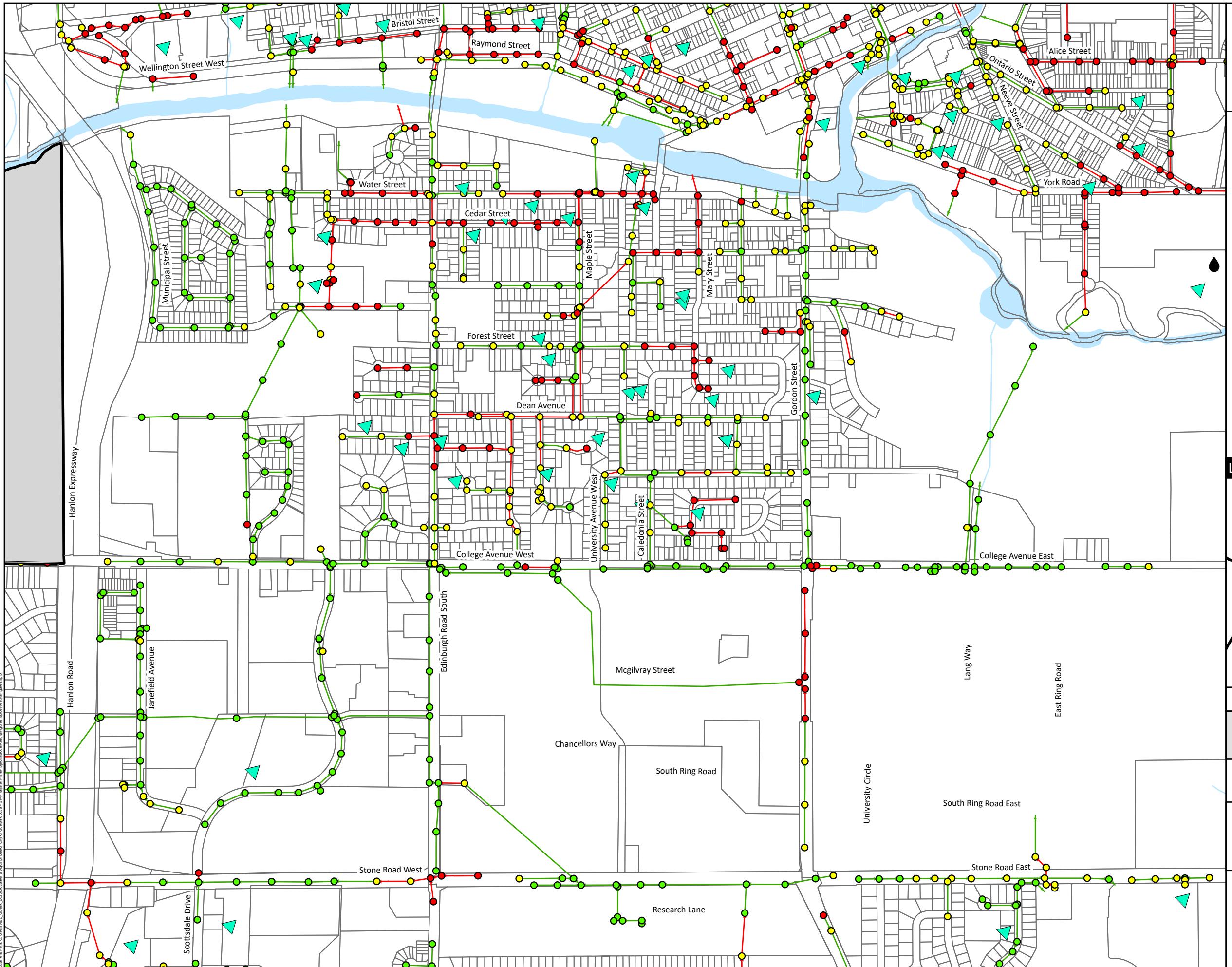
Figure

Storm Sewer 5mm Synthetic Storm
5-Year Conditions

Date: 2022-09-23
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 145 290 580
Meters





Legend

- Municipal Boundary
- Property
- Watercourse
- Stormwater Management Facility
- Flow Monitoring Locations (AMEC)
- Rain Gauge Locations (Municipal & GRCA)
- Flooding Complaint

Stormwater Sewer:

- Unsurcharged
- Surcharged (Bottleneck)

Node Hydraulic Grade Line:

- At or Above Surface
- 0-1.8m Below Ground Surface
- > 1.8m Below Ground Surface

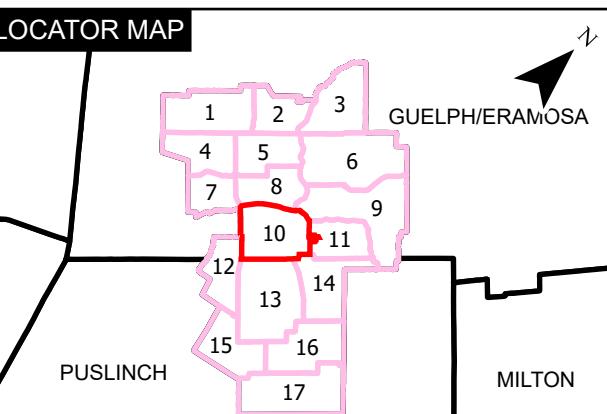
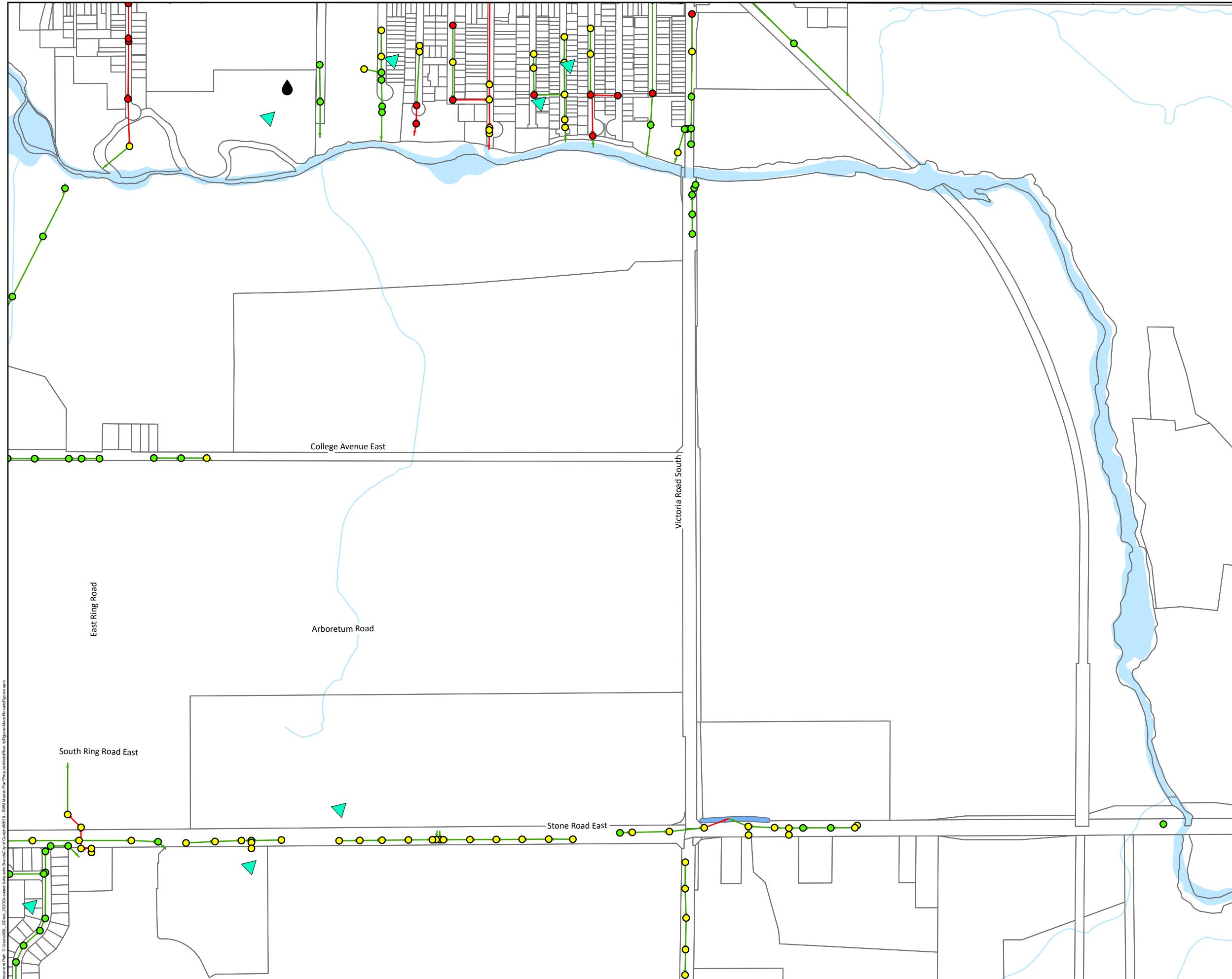


Figure
**Storm Sewer 5mm Synthetic Storm
5-Year Conditions**

Date: 2022-09-23
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 95 190 380
Meters

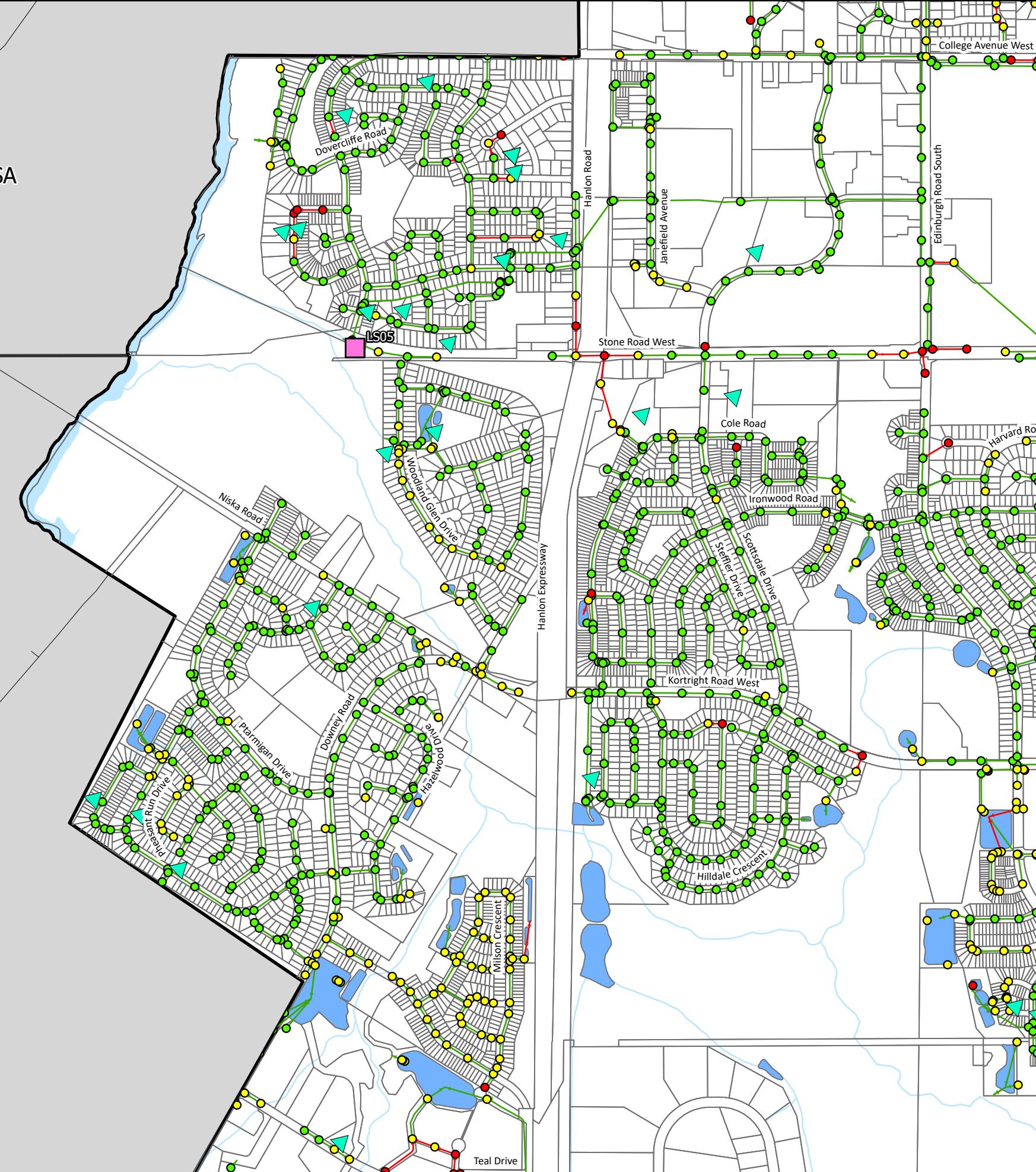




TOWNSHIP OF
GUELPH/ERAMOSA

TOWNSHIP OF
PUSLINCH

Document Ref: C:\Users\AB_GIS\OneDrive\Documents\Aquafor Beech\2020\2020\Stormwater Management Plan\Project Model Results\Figure\StormSewerResults\StormSewerResults.gdb



Legend

- Municipal Boundary
- Property
- Watercourse
- Stormwater Management Facility
- Flow Monitoring Locations (AMEC)
- Rain Gauge Locations (Municipal & GRCA)
- Flooding Complaint

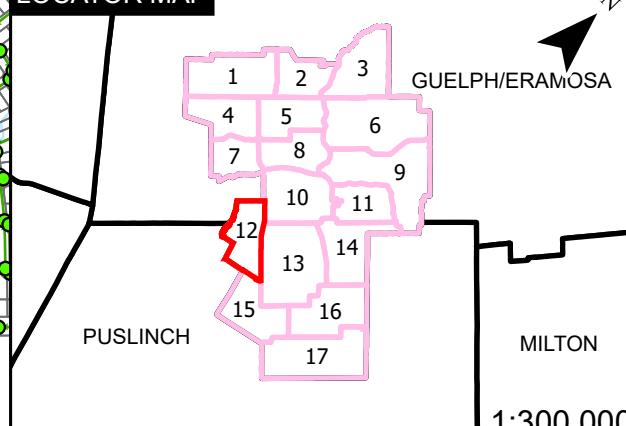
Stormwater Sewer:

- Unsurcharged
- Surcharged (Bottleneck)

Node Hydraulic Grade Line:

- At or Above Surface
- 0-1.8m Below Ground Surface
- > 1.8m Below Ground Surface

LOCATOR MAP



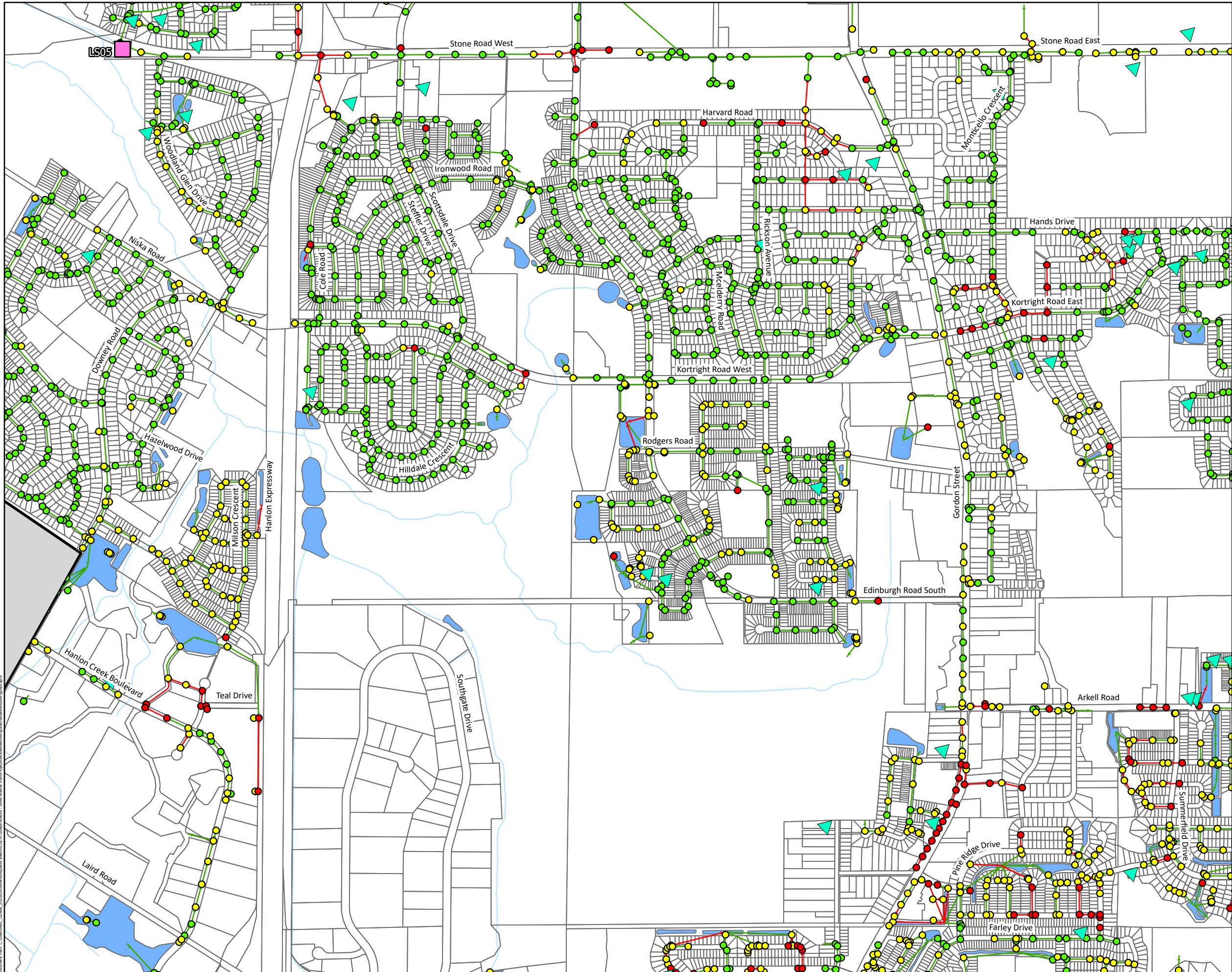
Figure

Storm Sewer 5mm Synthetic Storm
5-Year Conditions

Date: 2022-09-23
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 125 250 500
Meters





Legend

- Municipal Boundary
- Property
- Watercourse
- Stormwater Management Facility
- Flow Monitoring Locations (AMEC)
- Rain Gauge Locations (Municipal & GRCA)
- Flooding Complaint

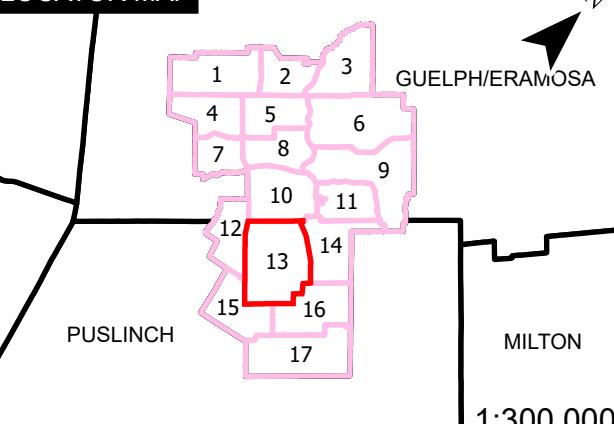
Stormwater Sewer:

- Unsurcharged
- Surcharged (Bottleneck)

Node Hydraulic Grade Line:

- At or Above Surface
- 0-1.8m Below Ground Surface
- > 1.8m Below Ground Surface

LOCATOR MAP



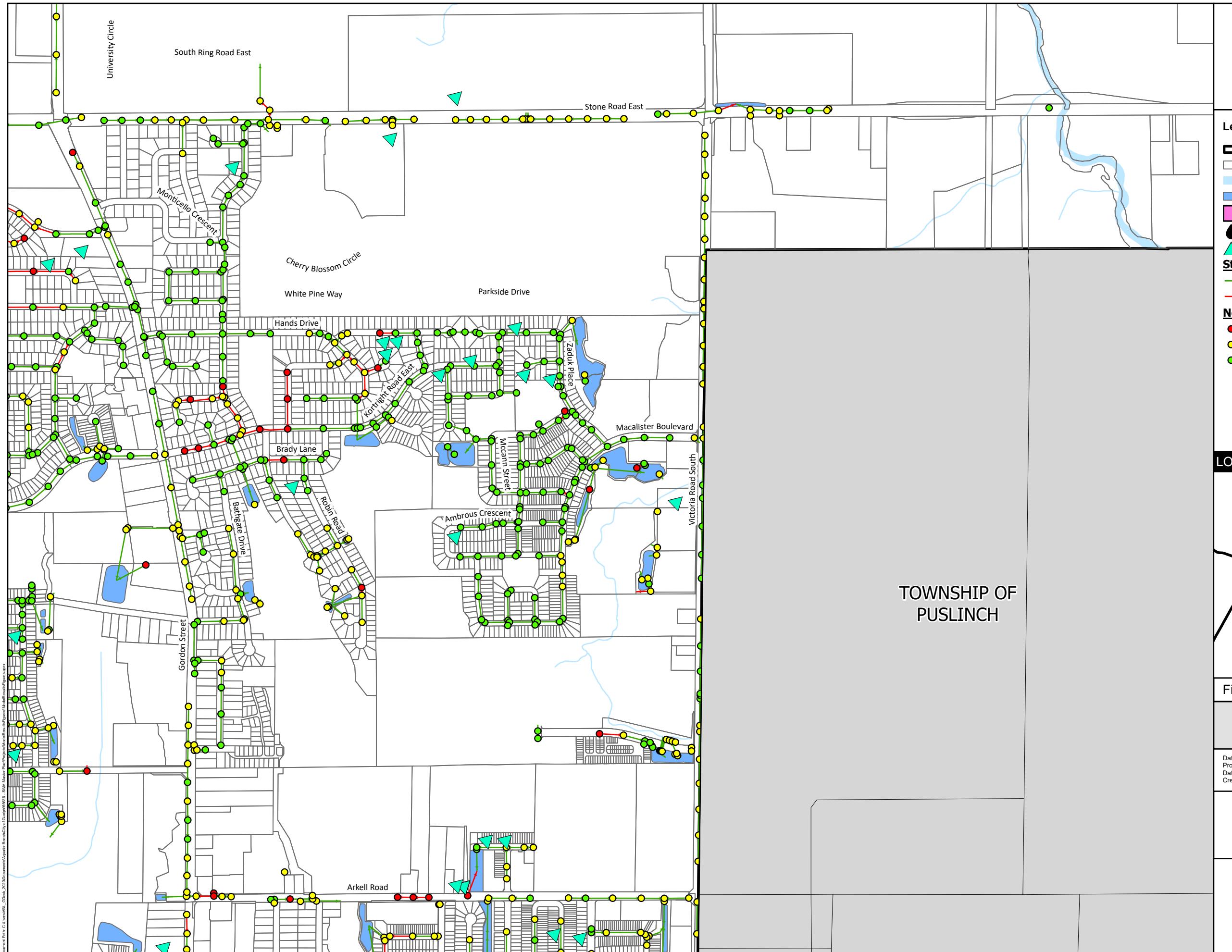
Figure

Storm Sewer 5mm Synthetic Storm
5-Year Conditions

Date: 2022-09-23
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

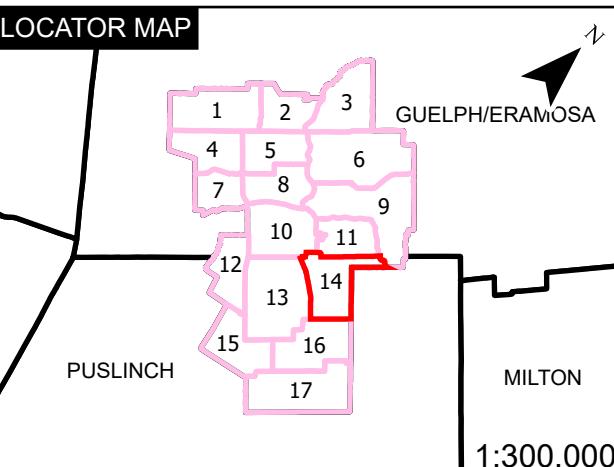
0 130 260 520
Meters





TOWNSHIP OF PUSLINCH

- Legend**
- Municipal Boundary
 - Property
 - Watercourse
 - Stormwater Management Facility
 - Flow Monitoring Locations (AMEC)
 - Rain Gauge Locations (Municipal & GRCA)
 - Flooding Complaint
- Stormwater Sewer:**
- Unsurcharged
 - Surcharged (Bottleneck)
- Node Hydraulic Grade Line:**
- At or Above Surface
 - 0-1.8m Below Ground Surface
 - > 1.8m Below Ground Surface



Figure

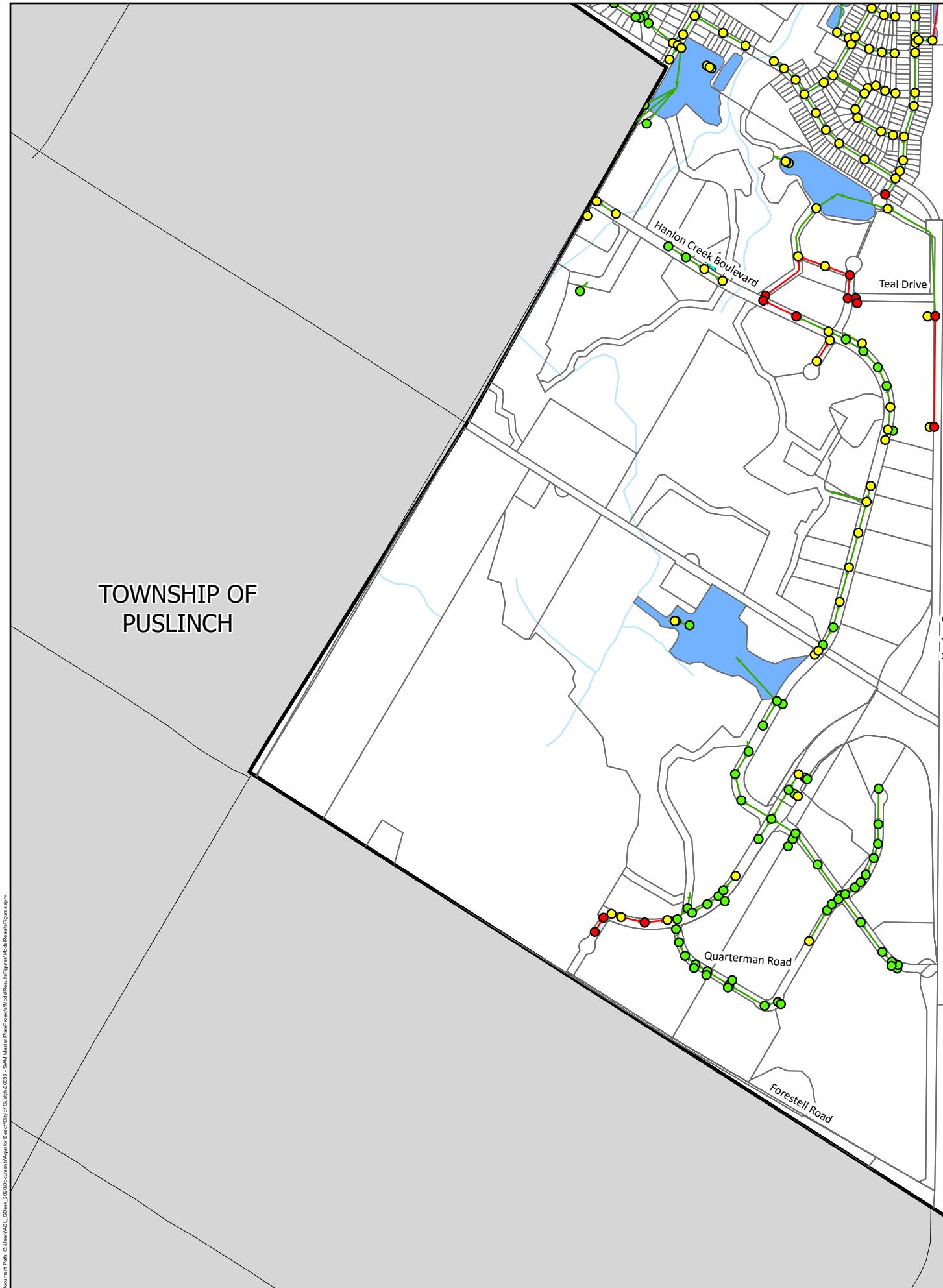
Storm Sewer 5mm Synthetic Storm
5-Year Conditions

Date: 2022-09-23
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 105 210 420
Meters

TOWNSHIP OF
PUSLINCH

Document Name: C:\Users\AEL\Documents\Survey\GRCA - 2020\2020\Document\Aquafor Beech\Stormwater Management Plan\Project\Report\NodeResults\Figure\NodeResultsFigure8.mxd



- Legend**
- Municipal Boundary
 - Property
 - Watercourse
 - Stormwater Management Facility
 - Flow Monitoring Locations (AMEC)
 - Rain Gauge Locations (Municipal & GRCA)
 - ▲ Flooding Complaint
- Stormwater Sewer:**
- Unsurcharged
 - Surcharged (Bottleneck)
- Node Hydraulic Grade Line:**
- At or Above Surface
 - 0-1.8m Below Ground Surface
 - > 1.8m Below Ground Surface

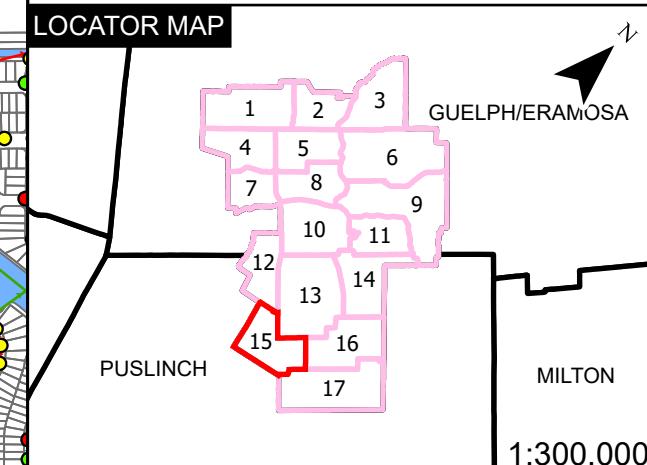
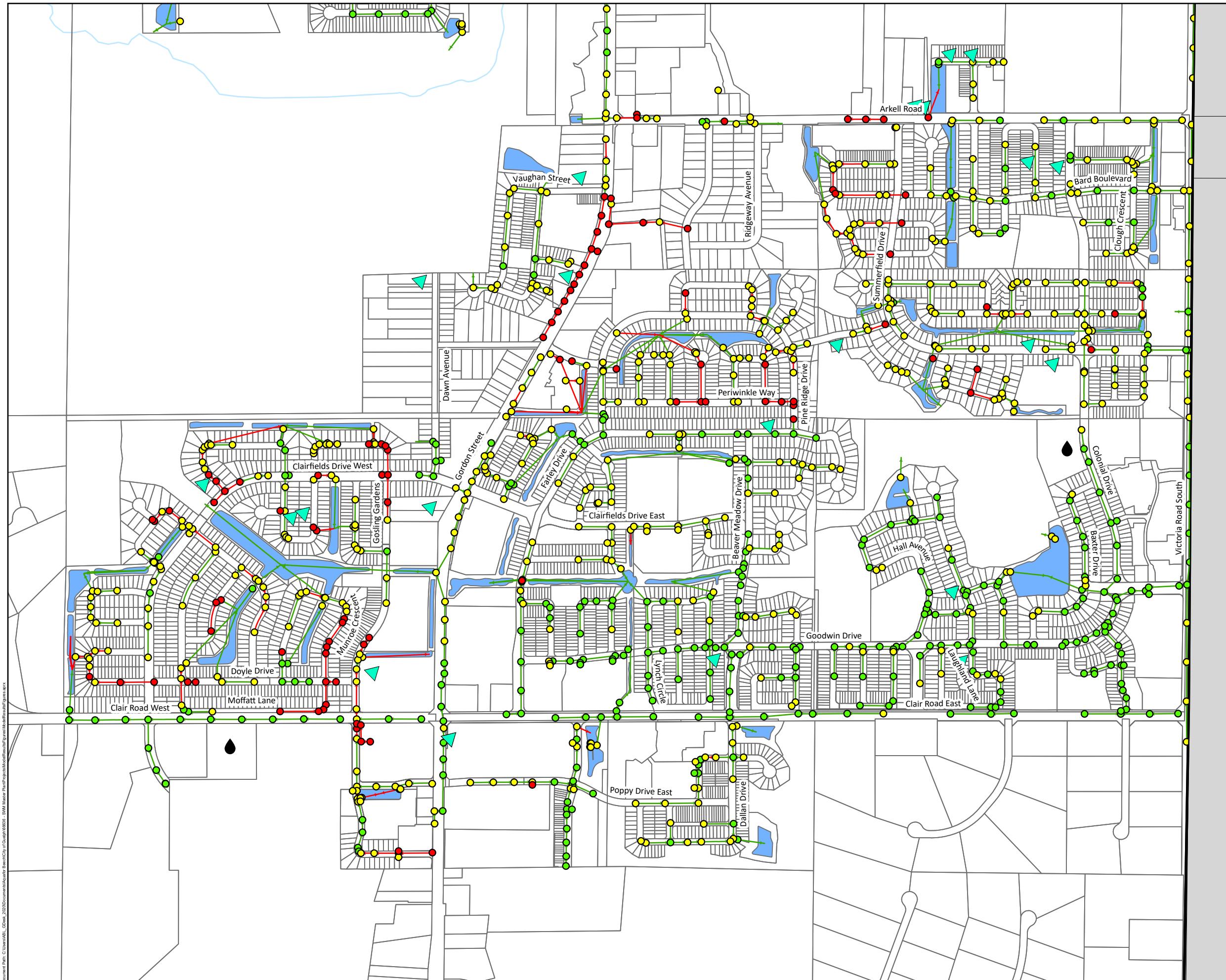


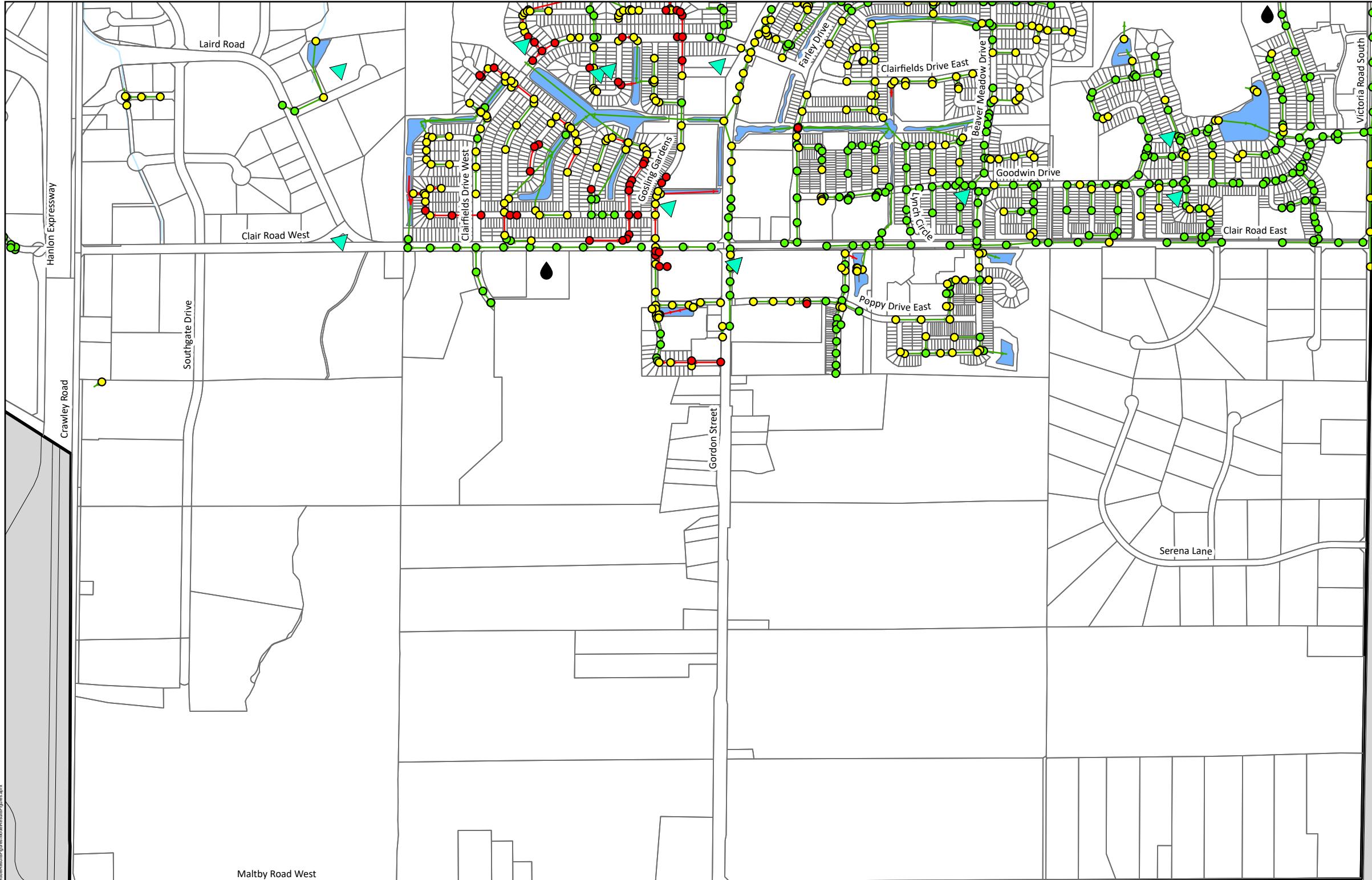
Figure
**Storm Sewer 5mm Synthetic Storm
5-Year Conditions**

Date: 2022-09-23
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 112.5 225 450
Meters



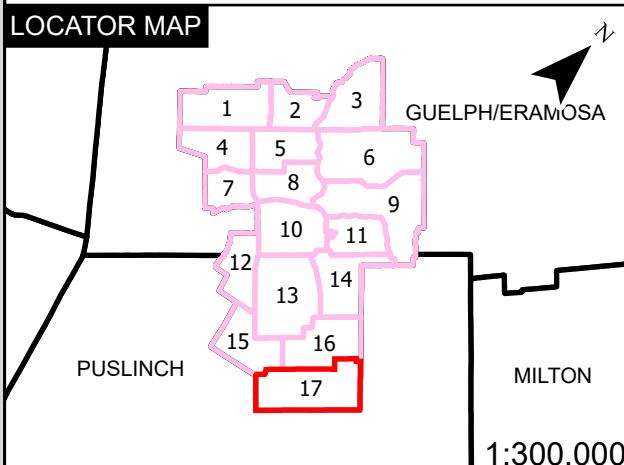




Document Ref: C:\Users\AIB_GIS\OneDrive\Documents\Aquafor Beech\2020\2020\Stormwater Management Plan\ProjectResults\FigureModelResults\FigureModelResults\Guelph\Guelph_StormSewerMap.mxd

TOWNSHIP OF PUSLINCH

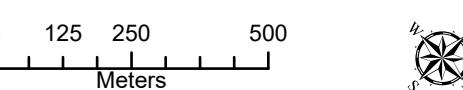
- Legend**
- Municipal Boundary
 - Property
 - Watercourse
 - Stormwater Management Facility
 - Flow Monitoring Locations (AMEC)
 - Rain Gauge Locations (Municipal & GRCA)
 - Flooding Complaint
- Stormwater Sewer:**
- Unsurcharged
 - Surcharged (Bottleneck)
- Node Hydraulic Grade Line:**
- At or Above Surface
 - 0-1.8m Below Ground Surface
 - > 1.8m Below Ground Surface



Figure

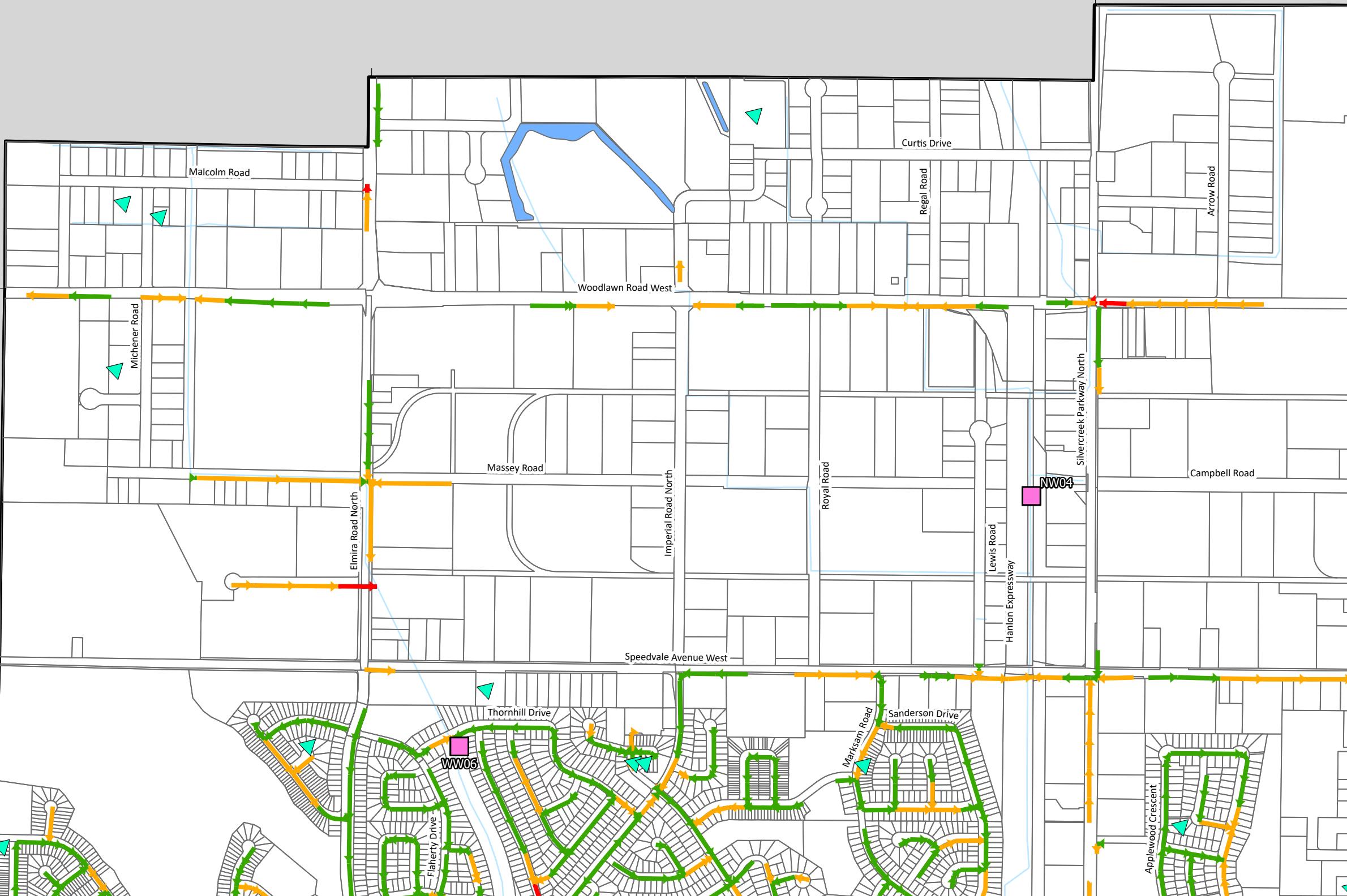
Storm Sewer 5mm Synthetic Storm
5-Year Conditions

Date: 2022-09-23
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.





TOWNSHIP OF GUELPH/ERAMOSA



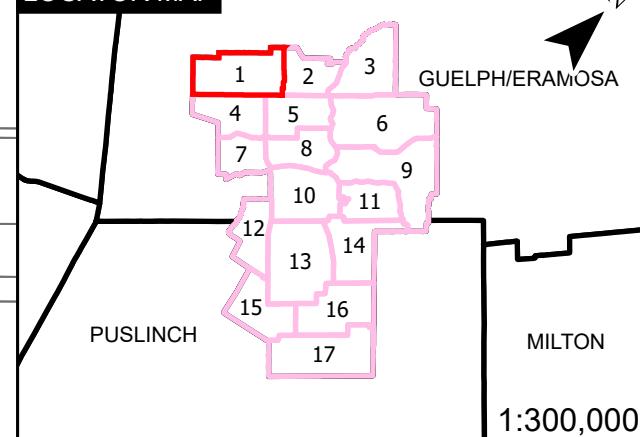
Legend

- Municipal Boundary
 - Property
 - Watercourse
 - Stormwater Management Facility
 - Flow Monitoring Locations (AMEC)

Overland Flooding Depth(m):

- >0.3m
 - 0.15m - 0.3m
 - 0 - 0.15m

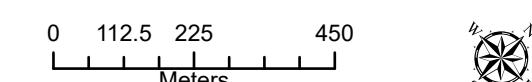
LOCATOR MAP



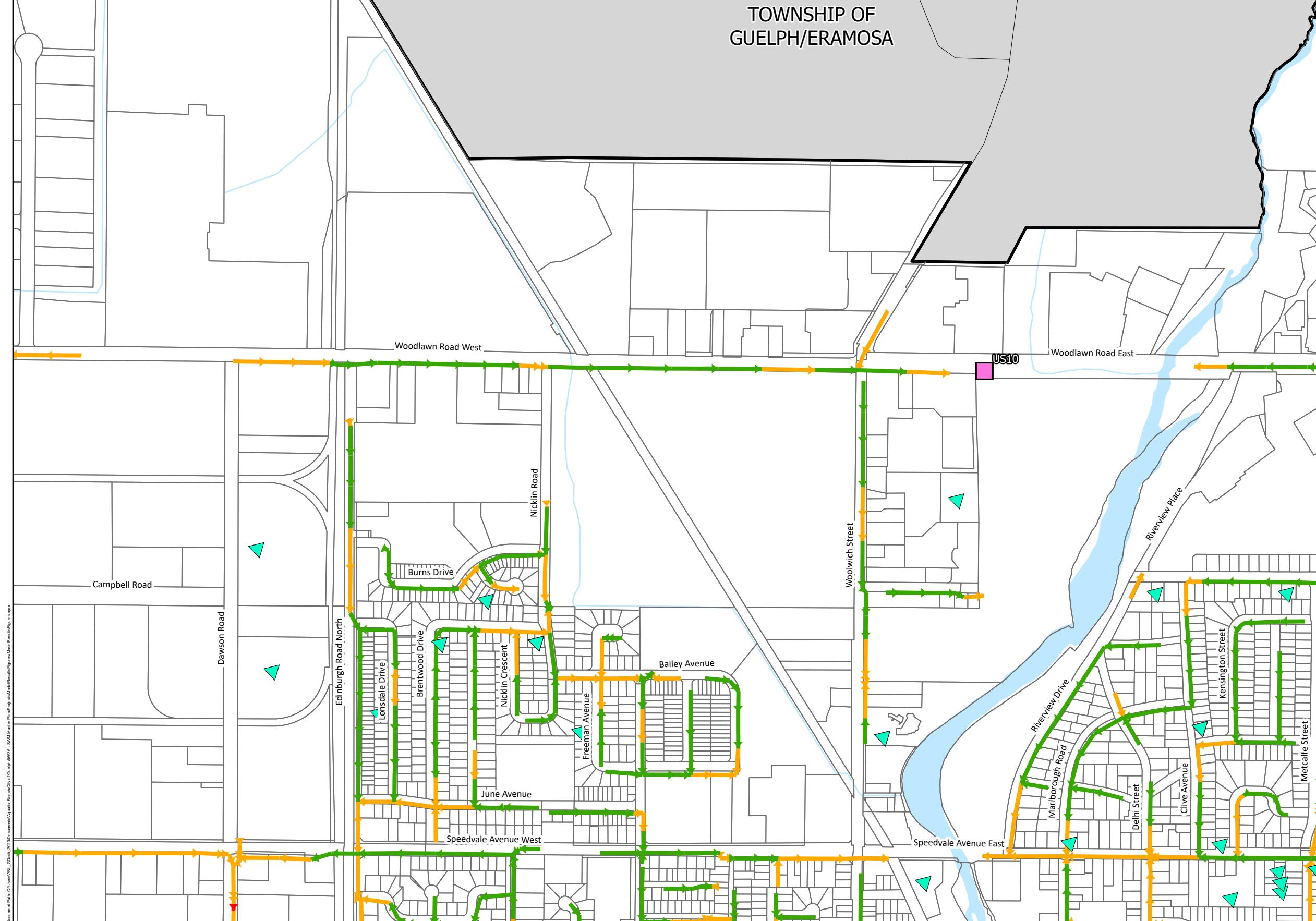
Figure

Overland 5mm Synthetic Storm 100-Year Conditions

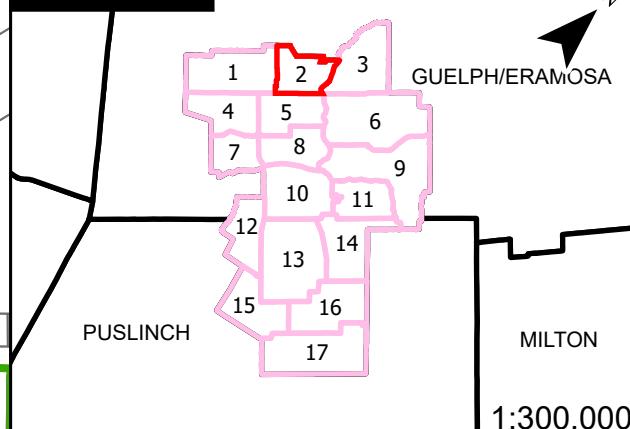
Date: 2022-09-20
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A V



TOWNSHIP OF
GUELPH/ERAMOSA



LOCATOR MAP



Figure

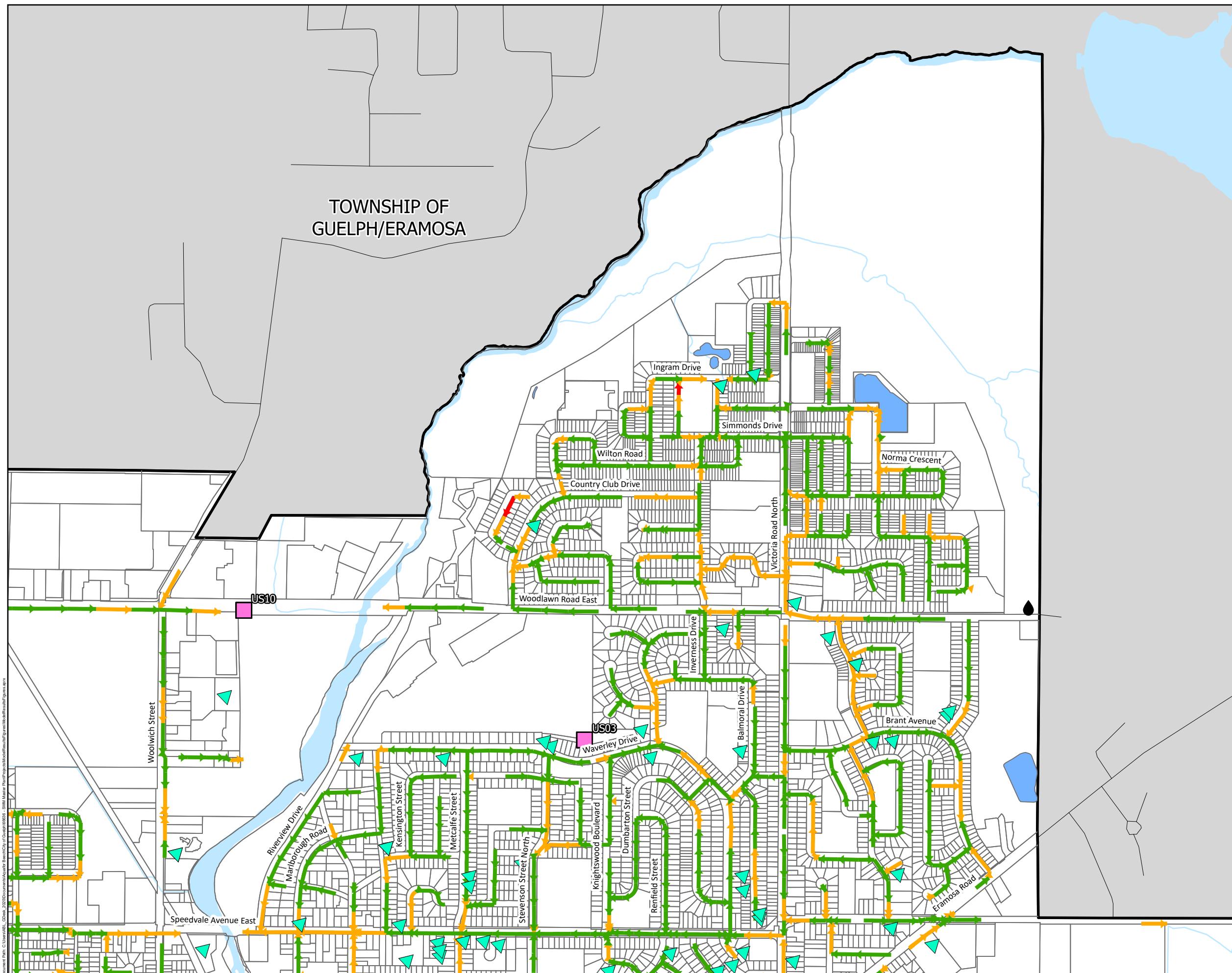
Overland 5mm Synthetic Storm
100-Year Conditions

Date: 2022-09-20
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 75 150 300
Meters



TOWNSHIP OF
GUELPH/ERAMOSA



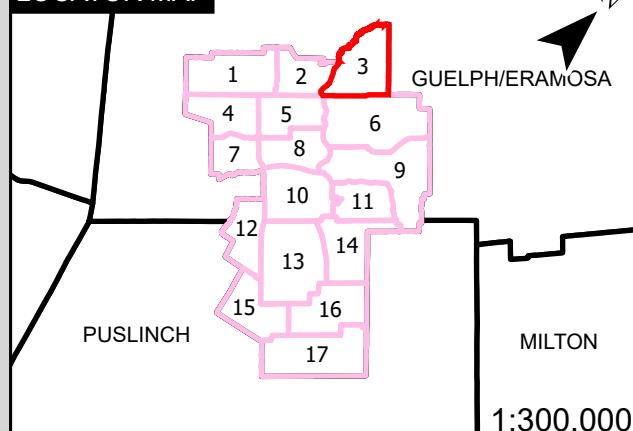
Legend

- Municipal Boundary
- Property
- Watercourse
- Stormwater Management Facility
- Flow Monitoring Locations (AMEC)
- Flooding Complaint
- Rain Gauge Locations (Municipal & GRCA)

Overland Flooding Depth(m):

- >0.3m
- 0.15m - 0.3m
- 0 - 0.15m

LOCATOR MAP



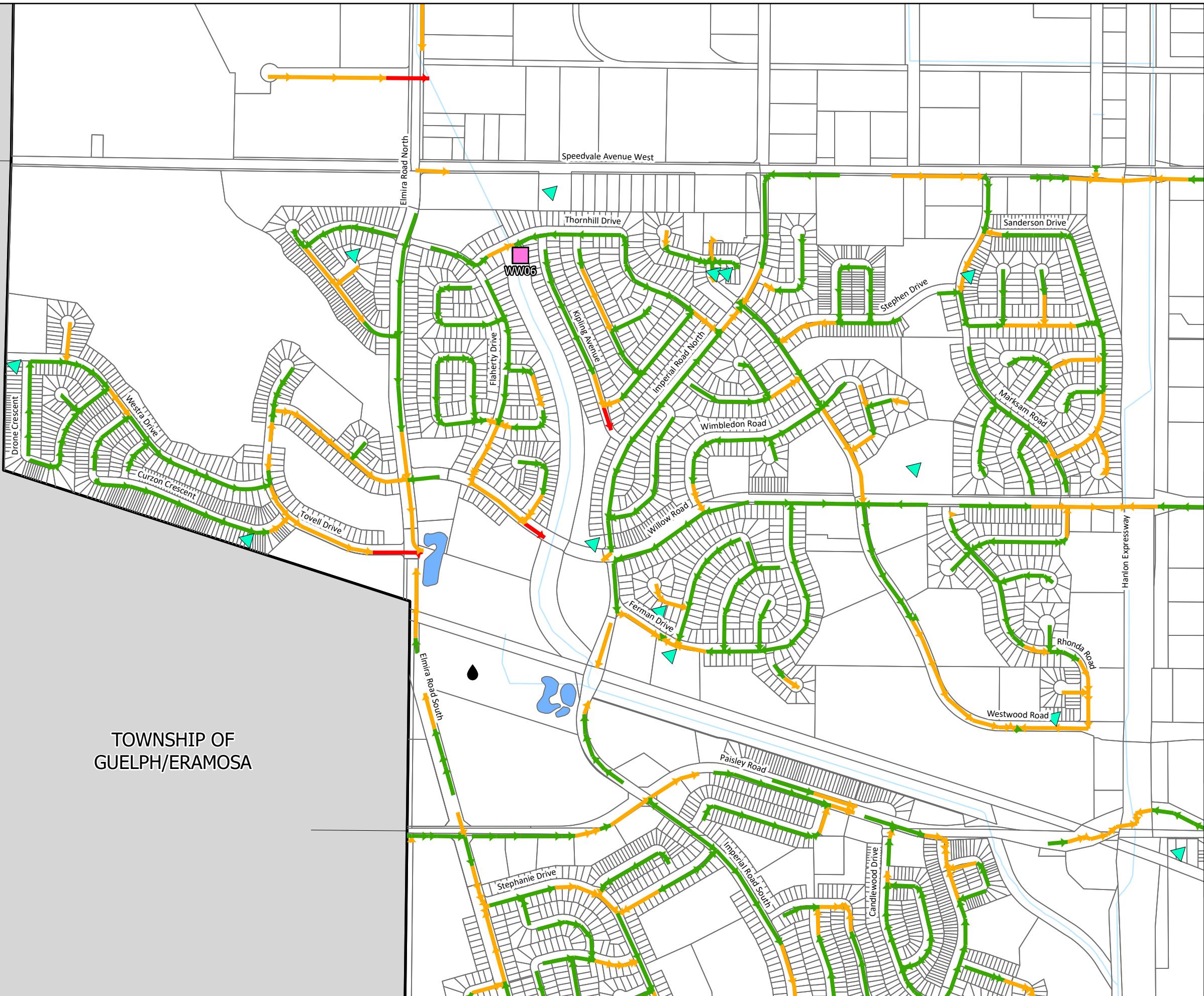
Figure

Overland 5mm Synthetic Storm
100-Year Conditions

Date: 2022-09-20
Projection: NAD83, UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 110 220 440
Meters





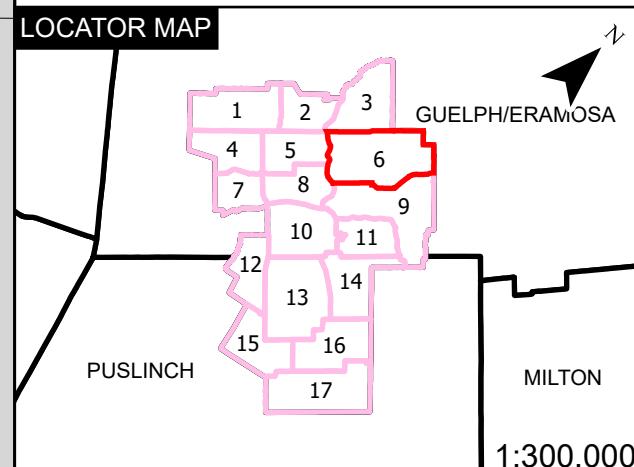
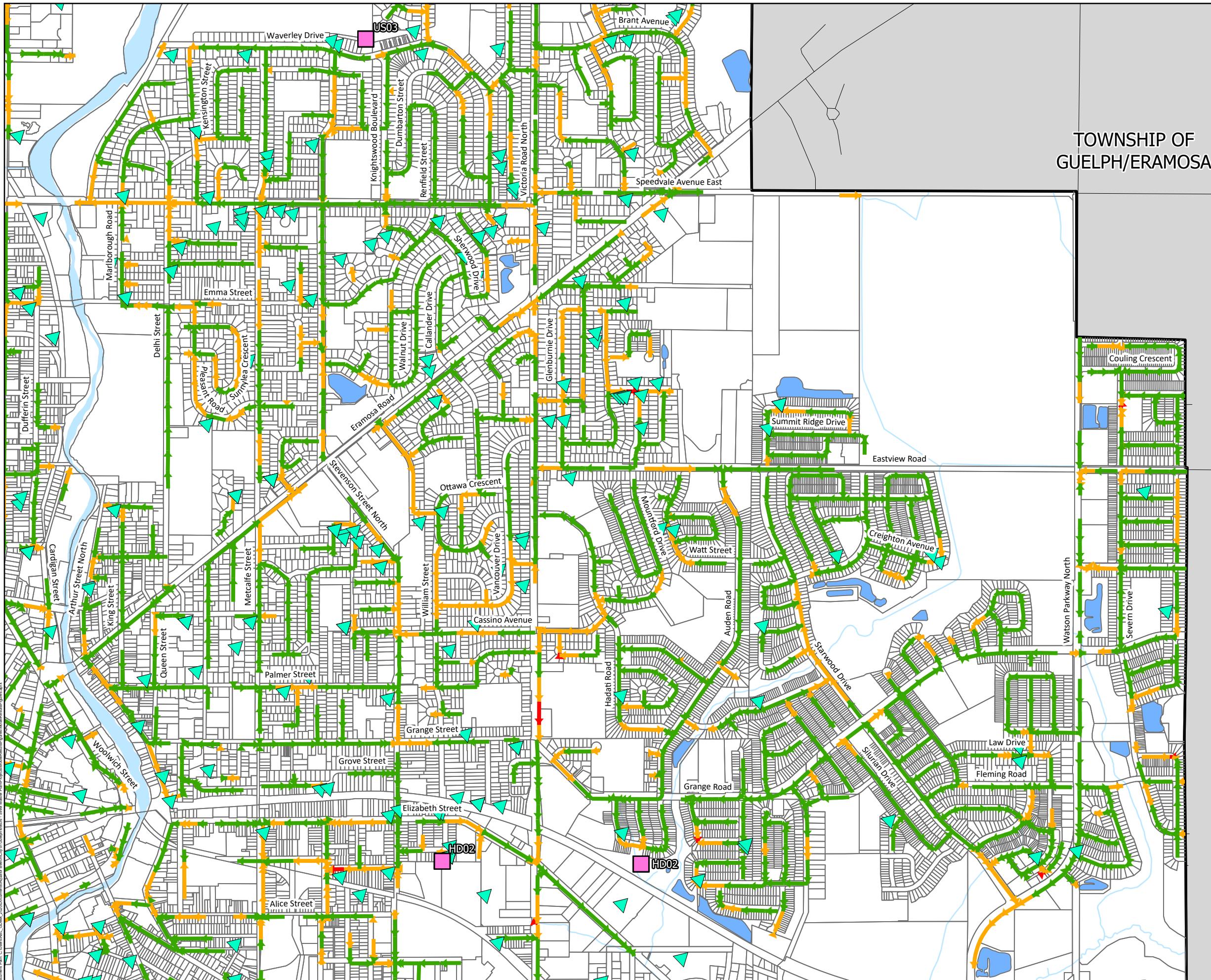


Figure
**Overland 5mm Synthetic Storm
100-Year Conditions**

Date: 2022-09-20
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 130 260 520
Meters

Legend

- Municipal Boundary
- Property
- Watercourse
- Stormwater Management Facility
- Flow Monitoring Locations (AMEC)
- Flooding Complaint
- Rain Gauge Locations (Municipal & GRCA)

Overland Flooding Depth(m):

- >0.3m
- 0.15m - 0.3m
- 0 - 0.15m

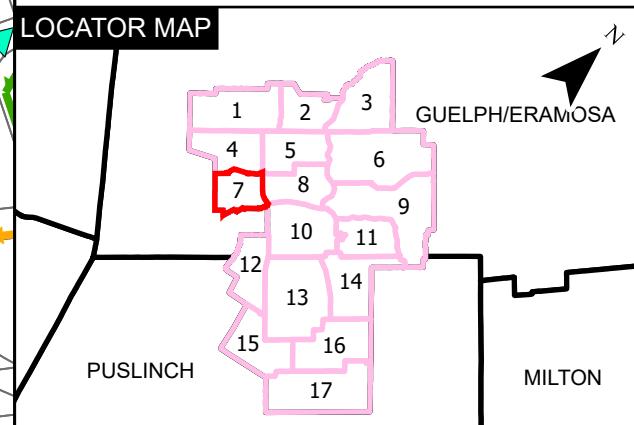
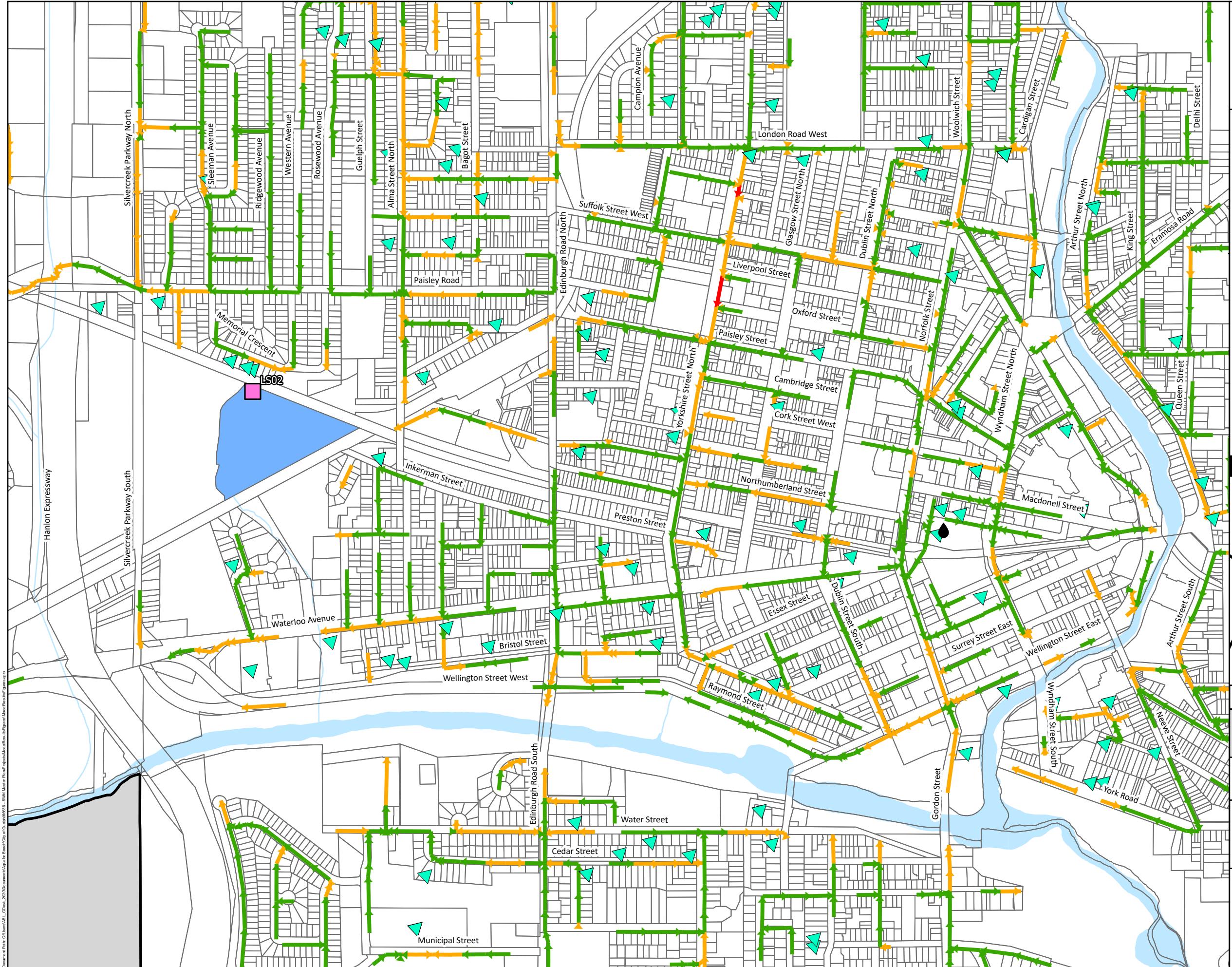


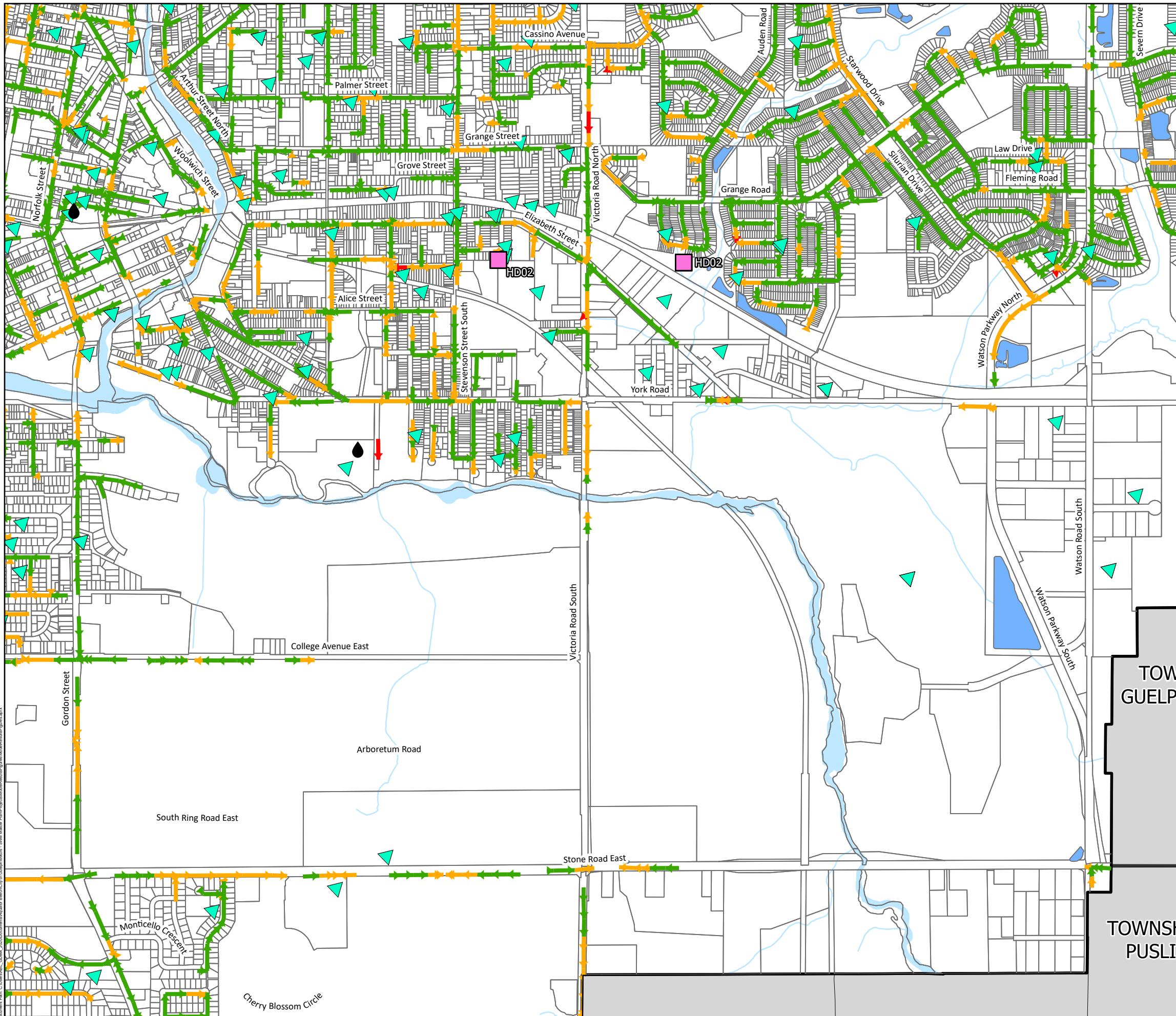
Figure
Overland 5mm Synthetic Storm
100-Year Conditions

Date: 2022-09-20
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 70 140 280
Meters







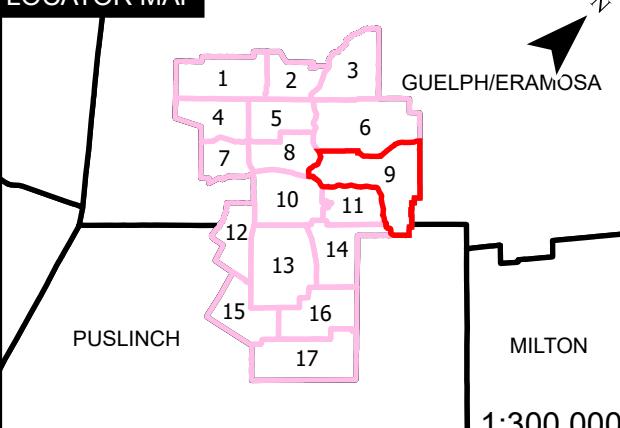
Legend

- Municipal Boundary
- Property
- Watercourse
- Stormwater Management Facility
- Flow Monitoring Locations (AMEC)
- Flooding Complaint
- Rain Gauge Locations (Municipal & GRCA)

Overland Flooding Depth(m):

- >0.3m
- 0.15m - 0.3m
- 0 - 0.15m

LOCATOR MAP



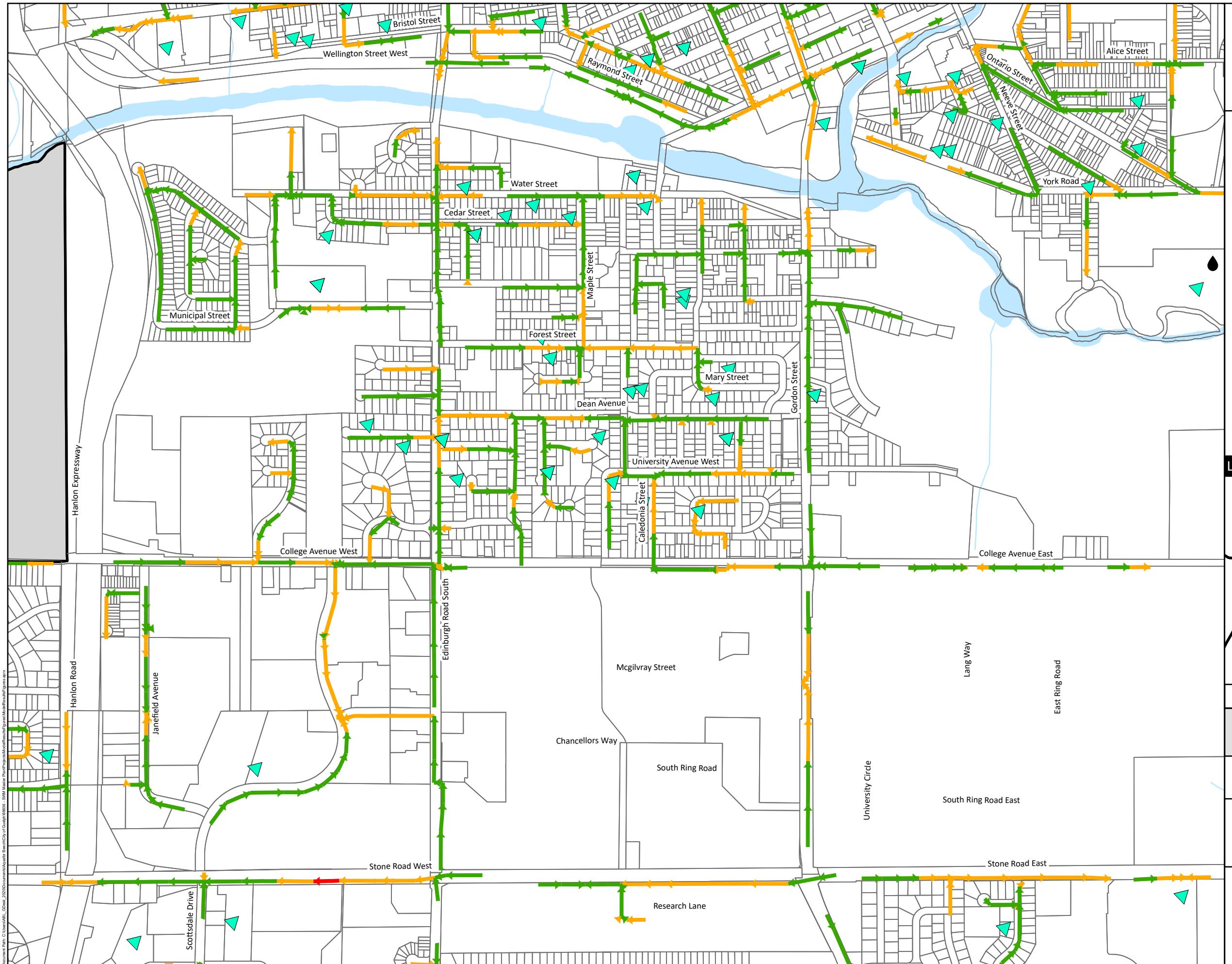
Figure

Overland 5mm Synthetic Storm
100-Year Conditions

Date: 2022-09-20
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 145 290 580
Meters





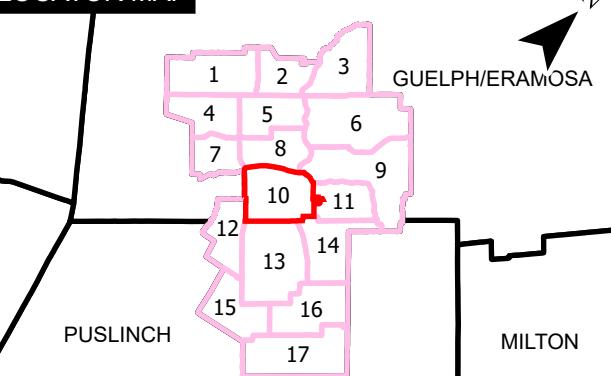
Legend

- Municipal Boundary
 - Property
 - Watercourse
 - Stormwater Management Facility
 - Flow Monitoring Locations (AMEC)
 - Flooding Complaint
 - Rain Gauge Locations (Municipal & GRCA)

→ >0.3m

- ➡ 0.15m - 0.3m
 - ➡ 0 - 0.15m

LOCATOR MAP

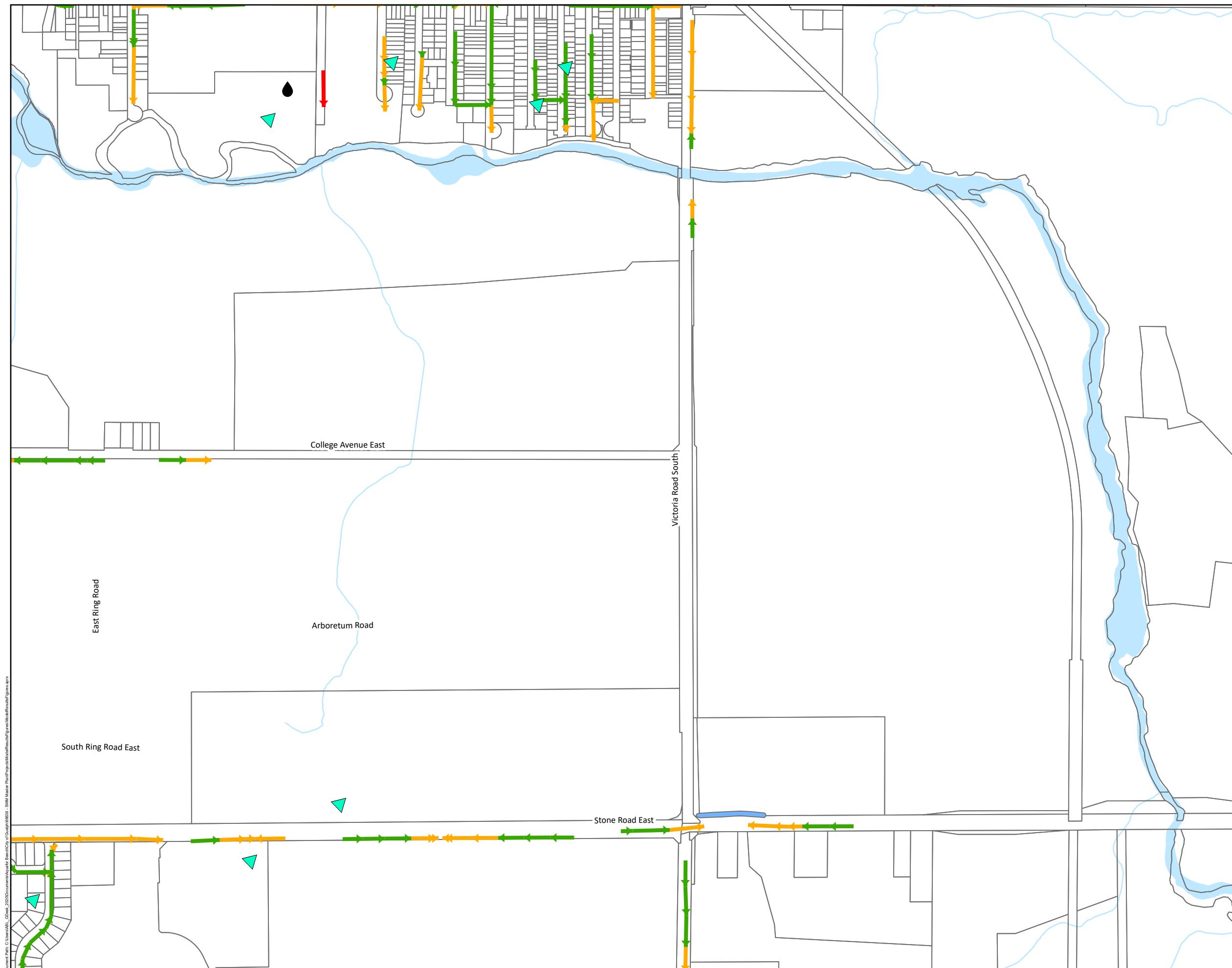


Figure

Overland 5mm Synthetic Storm 100-Year Conditions

Date: 2022-09-20
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.





Legend

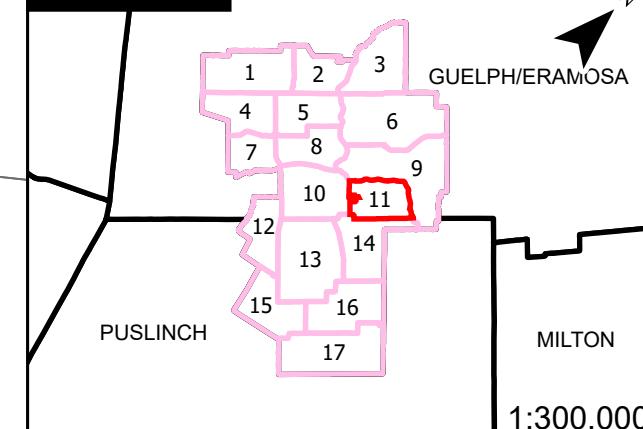
- Municipal Boundary
 - Property
 - Watercourse
 - Stormwater Management Facility
 - Flow Monitoring Locations (AMEC)
 - Flooding Complaint
 - Rain Gauge Locations (Municipal & GRCA)

Overland Flooding Depth(m):

Overland Flooding Depth (m):

- >0.3m
 - 0.15m - 0.3m
 - 0 - 0.15m

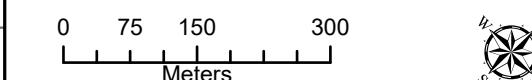
LOCATOR MAP



Figure

Overland 5mm Synthetic Storm 100-Year Conditions

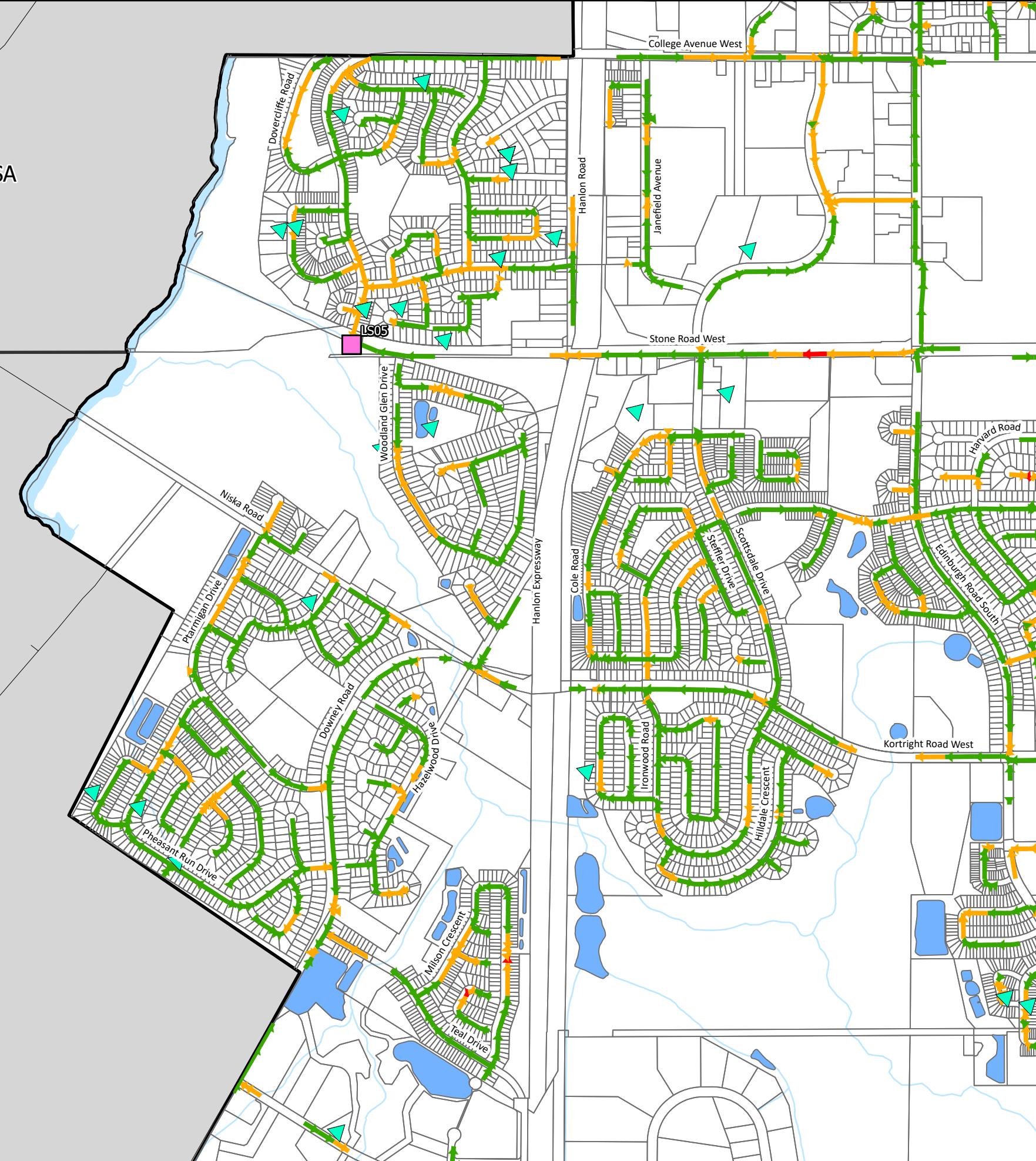
Date: 2022-09-20
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.



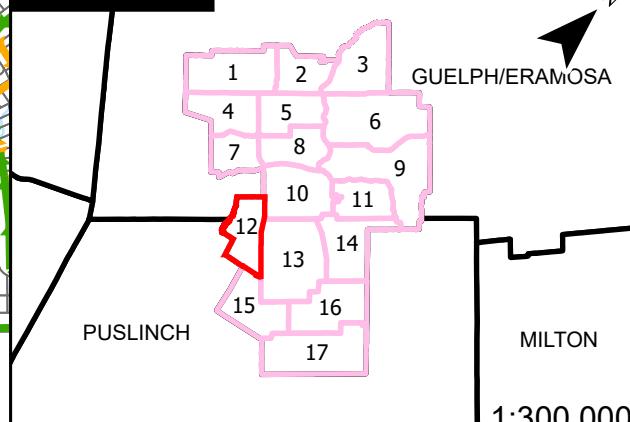
TOWNSHIP OF
GUELPH/ERAMOSA

TOWNSHIP OF
PUSLINCH

Document Ref: C:\Users\AB_GIS\Documents\Aquafor Beech\2020\2020\Documents\Aquafor Beech\City of Guelph\ERAMOSA\Stormwater Management Plan\Project Model Results\FloodResults\Figures\8.mxd



LOCATOR MAP



1:300,000

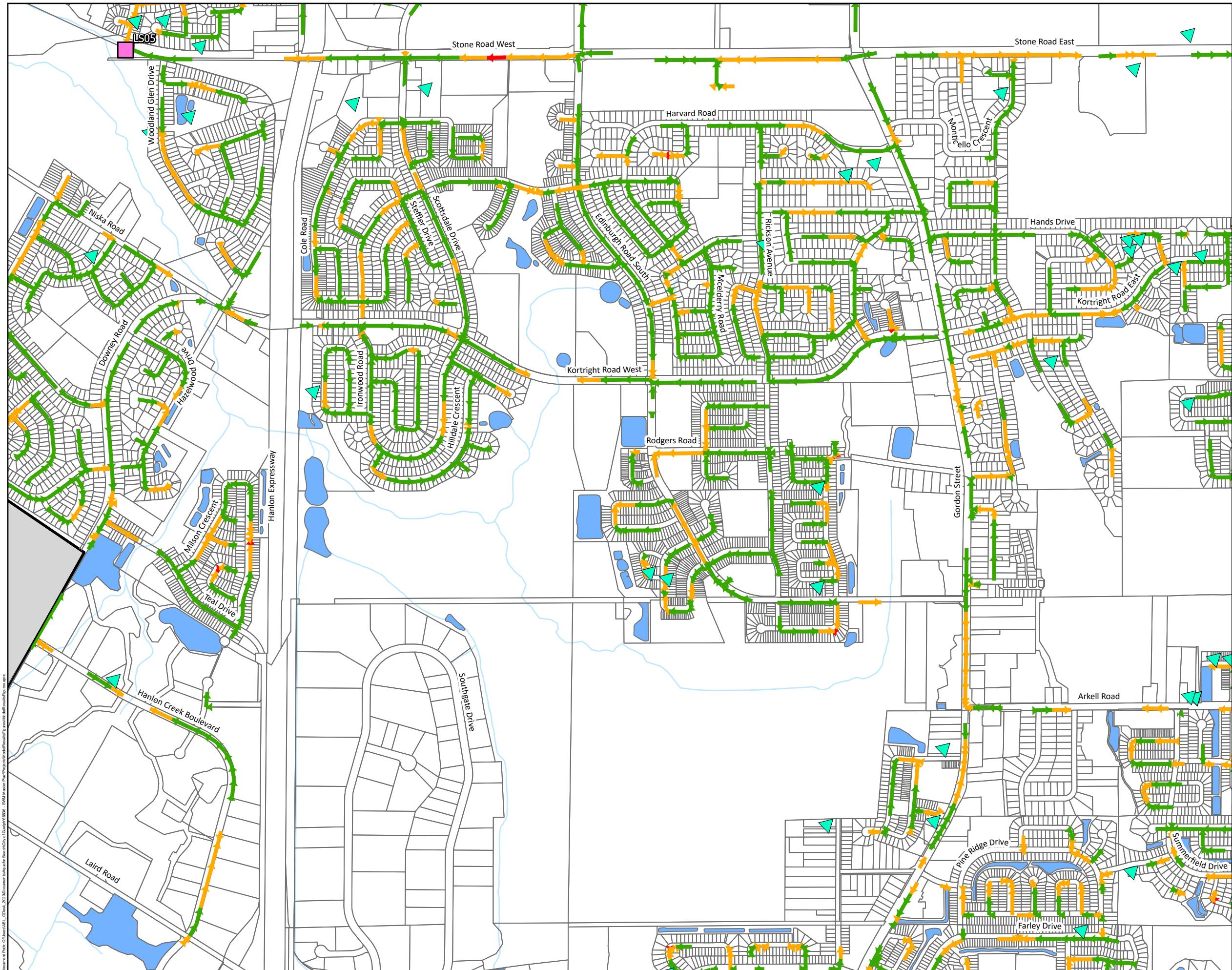
Figure

Overland 5mm Synthetic Storm
100-Year Conditions

Date: 2022-09-20
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 125 250 500
Meters





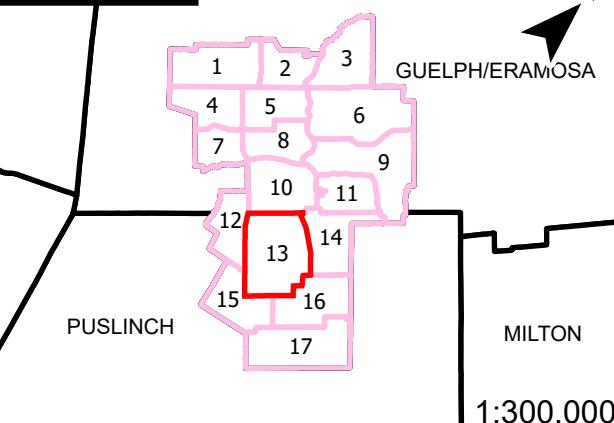
Legend

- Municipal Boundary
- Property
- Watercourse
- Stormwater Management Facility
- Flow Monitoring Locations (AMEC)
- Flooding Complaint
- Rain Gauge Locations (Municipal & GRCA)

Overland Flooding Depth(m):

- >0.3m
- 0.15m - 0.3m
- 0 - 0.15m

LOCATOR MAP



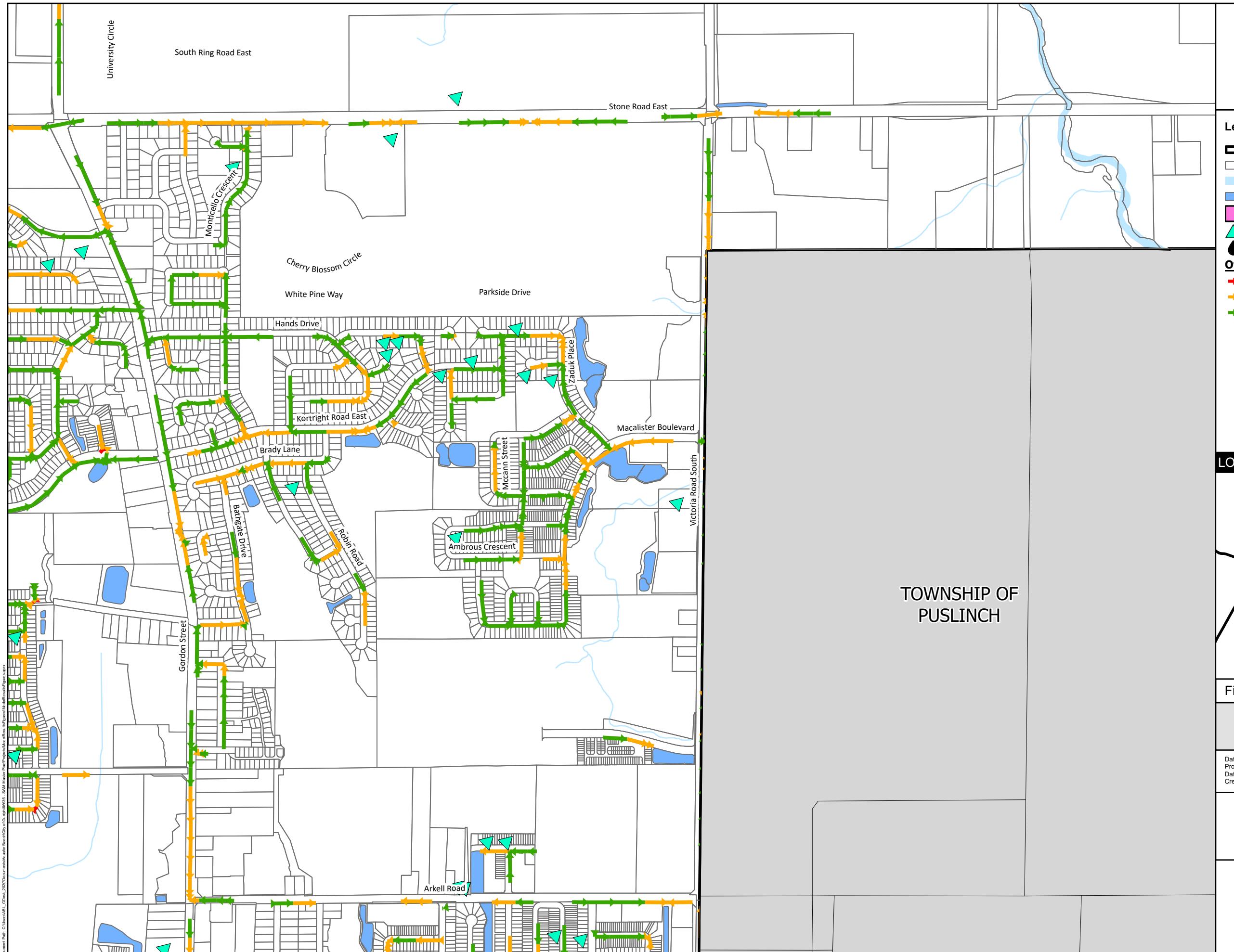
Figure

Overland 5mm Synthetic Storm
100-Year Conditions

Date: 2022-09-20
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 130 260 520
Meters





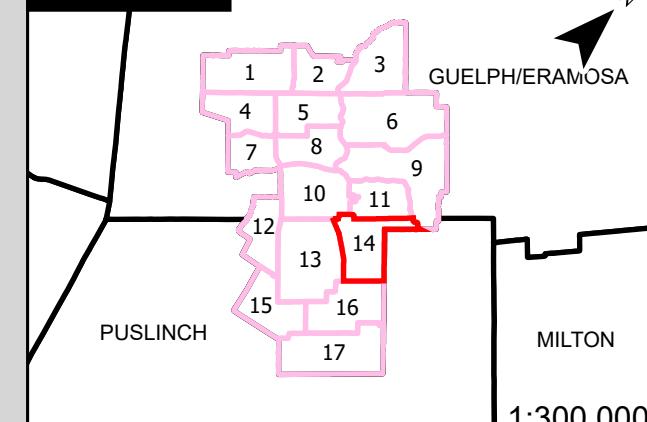
Legend

- Municipal Boundary
 - Property
 - Watercourse
 - Stormwater Management Facility
 - Flow Monitoring Locations (AMEC)
 - Flooding Complaint
 - Rain Gauge Locations (Municipal & GRCA)

Overland Flooding Depth(m):

- >0.3m
 - 0.15m - 0.3m
 - 0 - 0.15m

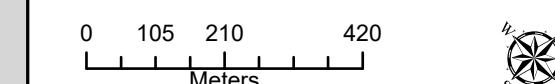
LOCATOR MAP



Figure

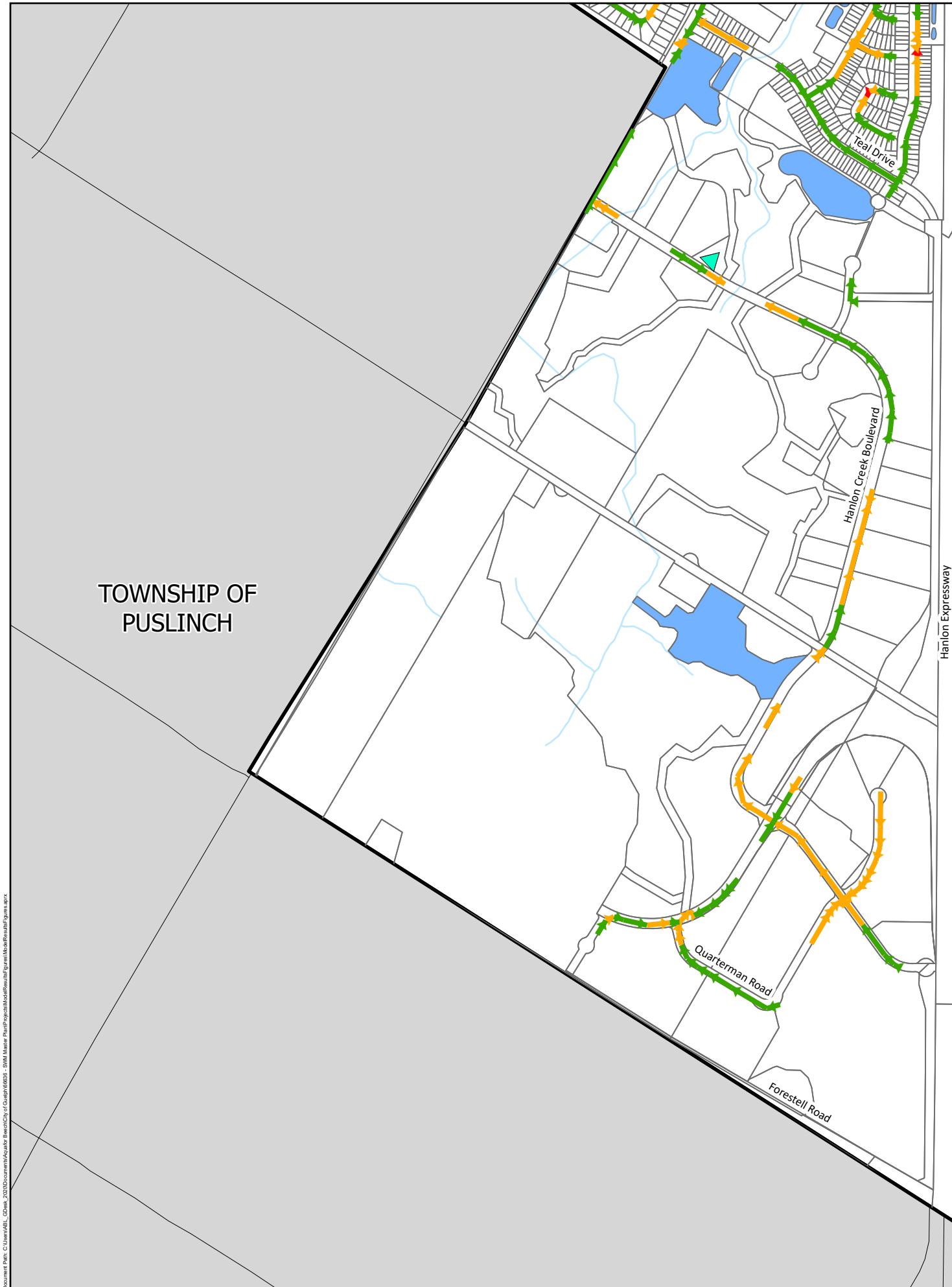
Overland 5mm Synthetic Storm
100-Year Conditions

Date: 2022-09-20
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A V



TOWNSHIP OF
PUSLINCH

Document Name: C:\Users\AEL\Google Drive\2020\Documents\Aquafor Beech\City of Guelph\GRCA\Stormwater Management Plan\Project\Report\Results\FloodMap\Report\FloodMapResults\FloodMapResultsFigure8.mxd



- Legend**
- Municipal Boundary
 - Property
 - Watercourse
 - Stormwater Management Facility
 - Flow Monitoring Locations (AMEC)
 - ▲ Flooding Complaint
 - Rain Gauge Locations (Municipal & GRCA)
- Overland Flooding Depth(m):**
- >0.3m
 - 0.15m - 0.3m
 - 0 - 0.15m

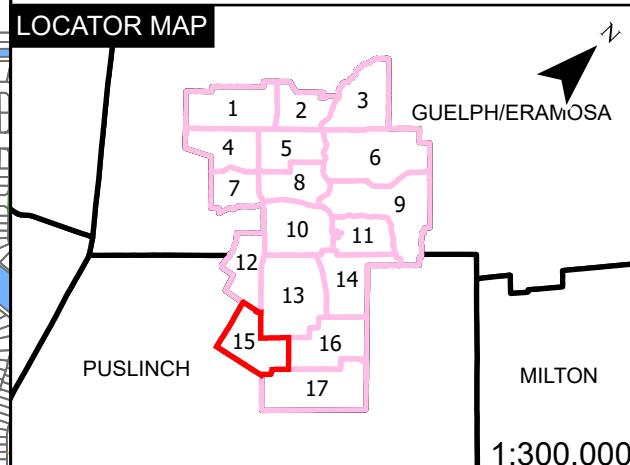
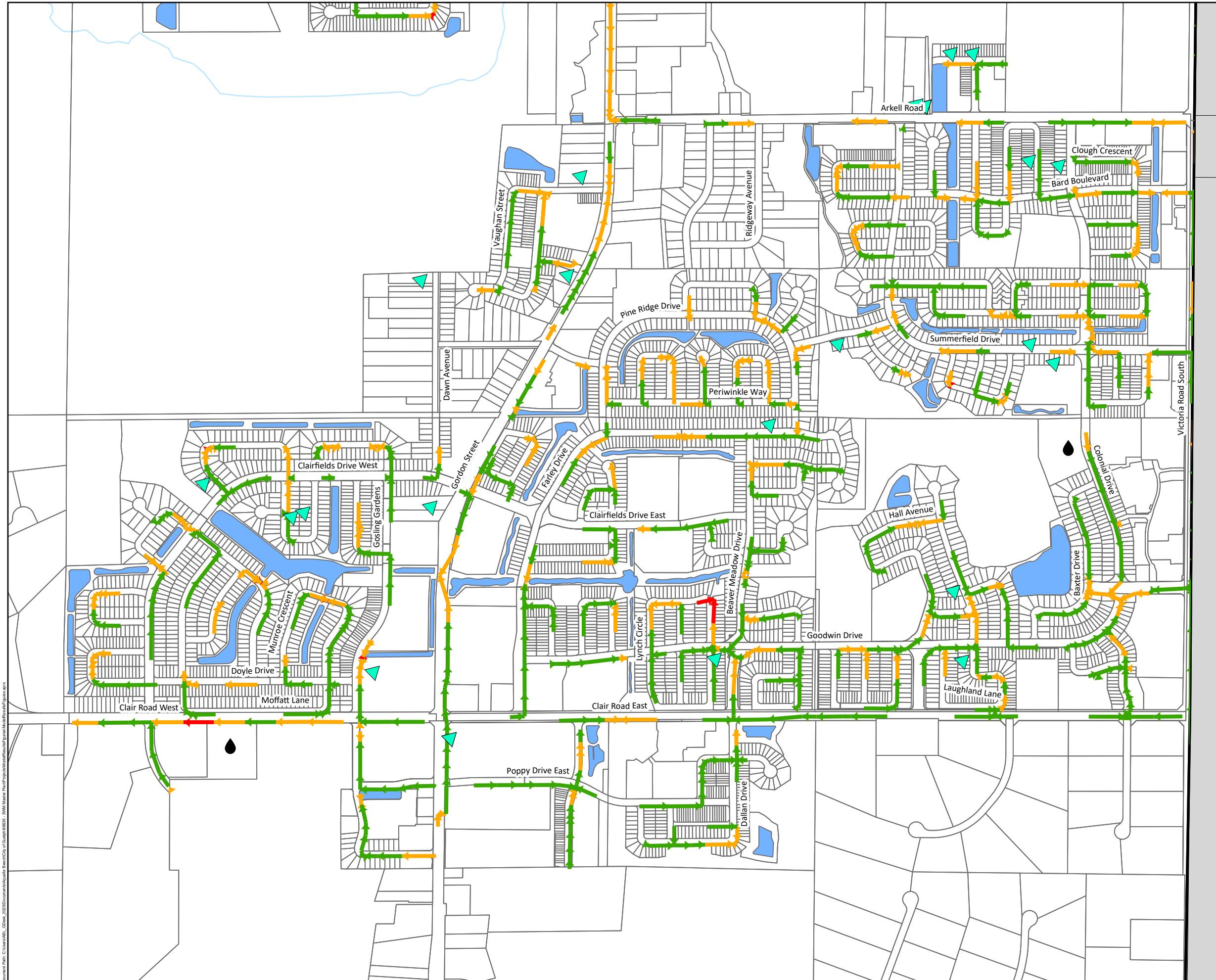


Figure
Overland 5mm Synthetic Storm
100-Year Conditions

Date: 2022-09-20
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 112.5 225 450
Meters





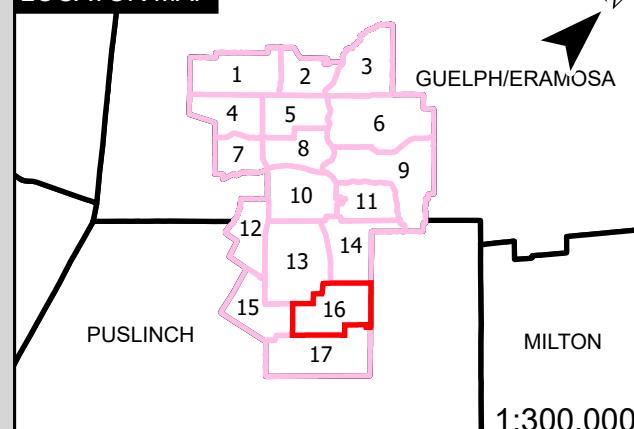
Legend

- Municipal Boundary
- Property
- Watercourse
- Stormwater Management Facility
- Flow Monitoring Locations (AMEC)
- Flooding Complaint
- Rain Gauge Locations (Municipal & GRCA)

Overland Flooding Depth(m):

- >0.3m
- 0.15m - 0.3m
- 0 - 0.15m

LOCATOR MAP



Figure

Overland 5mm Synthetic Storm 100-Year Conditions

Date: 2022-09-20
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 95 190 380
Meters



Legend

- Municipal Boundary
- Property
- Watercourse
- Stormwater Management Facility
- Flow Monitoring Locations (AMEC)
- Flooding Complaint
- Rain Gauge Locations (Municipal & GRCA)

Overland Flooding Depth(m):

- >0.3m
- 0.15m - 0.3m
- 0 - 0.15m

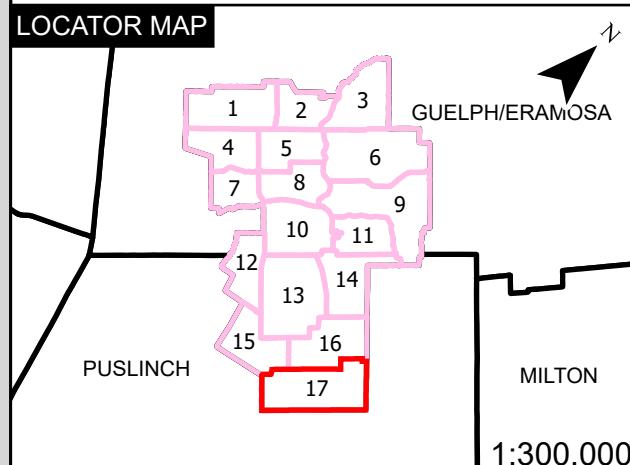
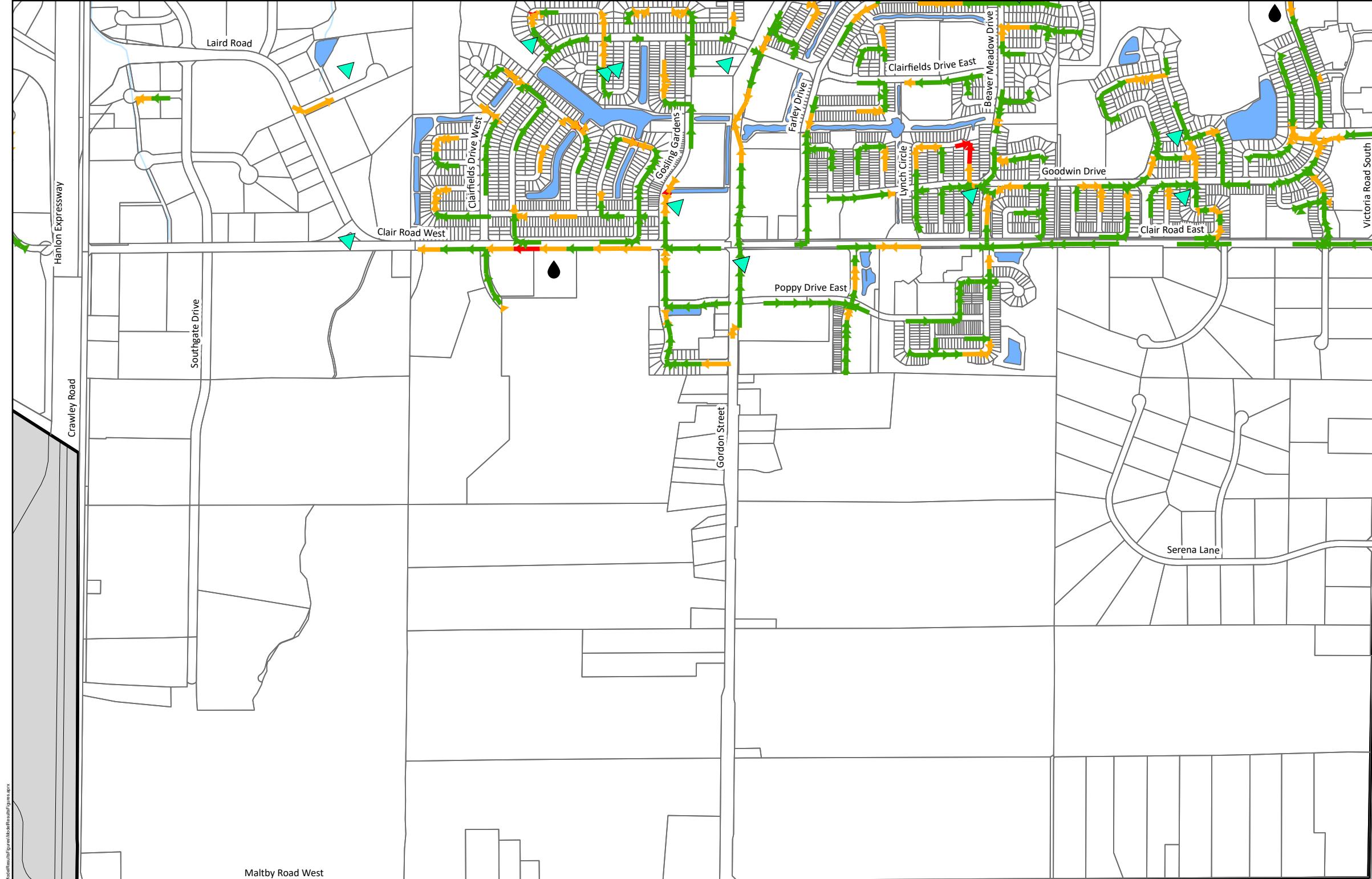


Figure
Overland 5mm Synthetic Storm
100-Year Conditions

Date: 2022-09-20
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

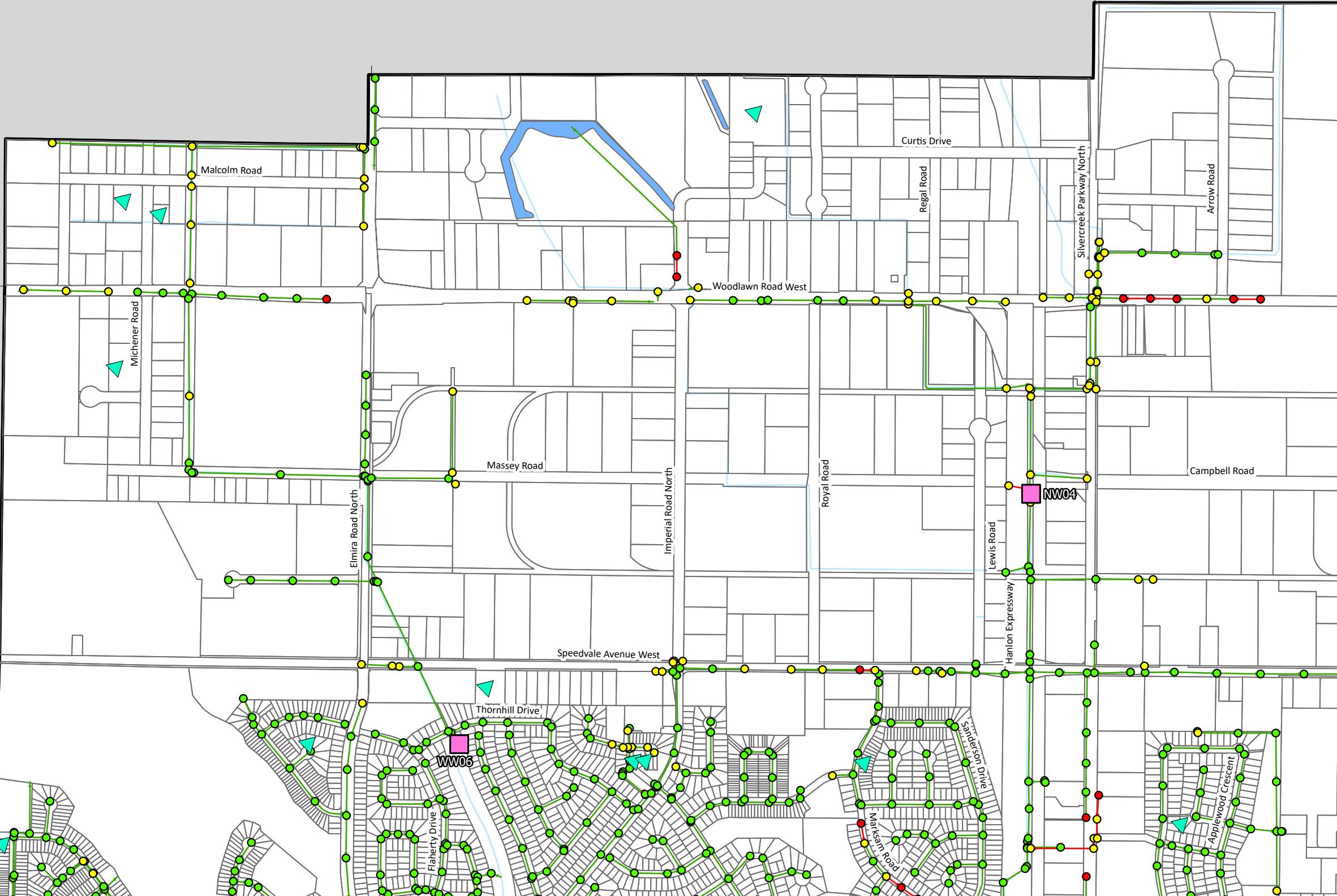
0 125 250 500
Meters



TOWNSHIP OF
PUSLINCH

Appendix C7: Scenario 7 Green Infrastructure (14mm Volume Control)

TOWNSHIP OF
GUELPH/ERAMOSA



Legend

- Municipal Boundary
- Property
- Watercourse
- Stormwater Management Facility
- Flow Monitoring Locations (AMEC)
- Rain Gauge Locations (Municipal & GRCA)
- Flooding Complaint

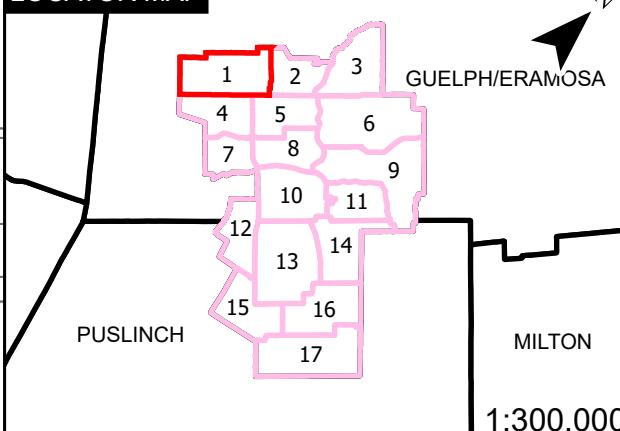
Stormwater Sewer:

- Unsurcharged
- Surcharged (Bottleneck)

Node Hydraulic Grade Line:

- At or Above Surface
- 0-1.8m Below Ground Surface
- > 1.8m Below Ground Surface

LOCATOR MAP



Figure

Storm Sewer 14mm Synthetic Storm
5-Year Conditions

Date: 2022-09-23
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.





TOWNSHIP OF GUELPH/ERAMOSA

Legend

- Municipal Boundary
 - Property
 - Watercourse
 - Stormwater Management Facility
 - Flow Monitoring Locations (AMEC)
 - Rain Gauge Locations (Municipal & GRCA)

Flooding Complaints

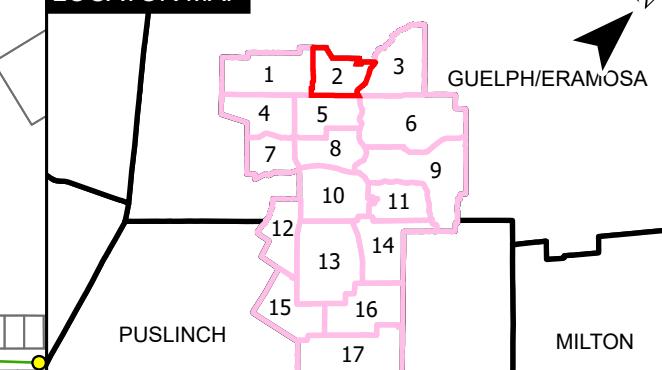
- Stormwater Sewer:**

 - Unsurcharged
 - Surcharged (Bottleneck)

Node Hydraulic Grade Line:

- At or Above Surface
 - 0-1.8m Below Ground Surface
 - > 1.8m Below Ground Surface

LOCATOR MAP



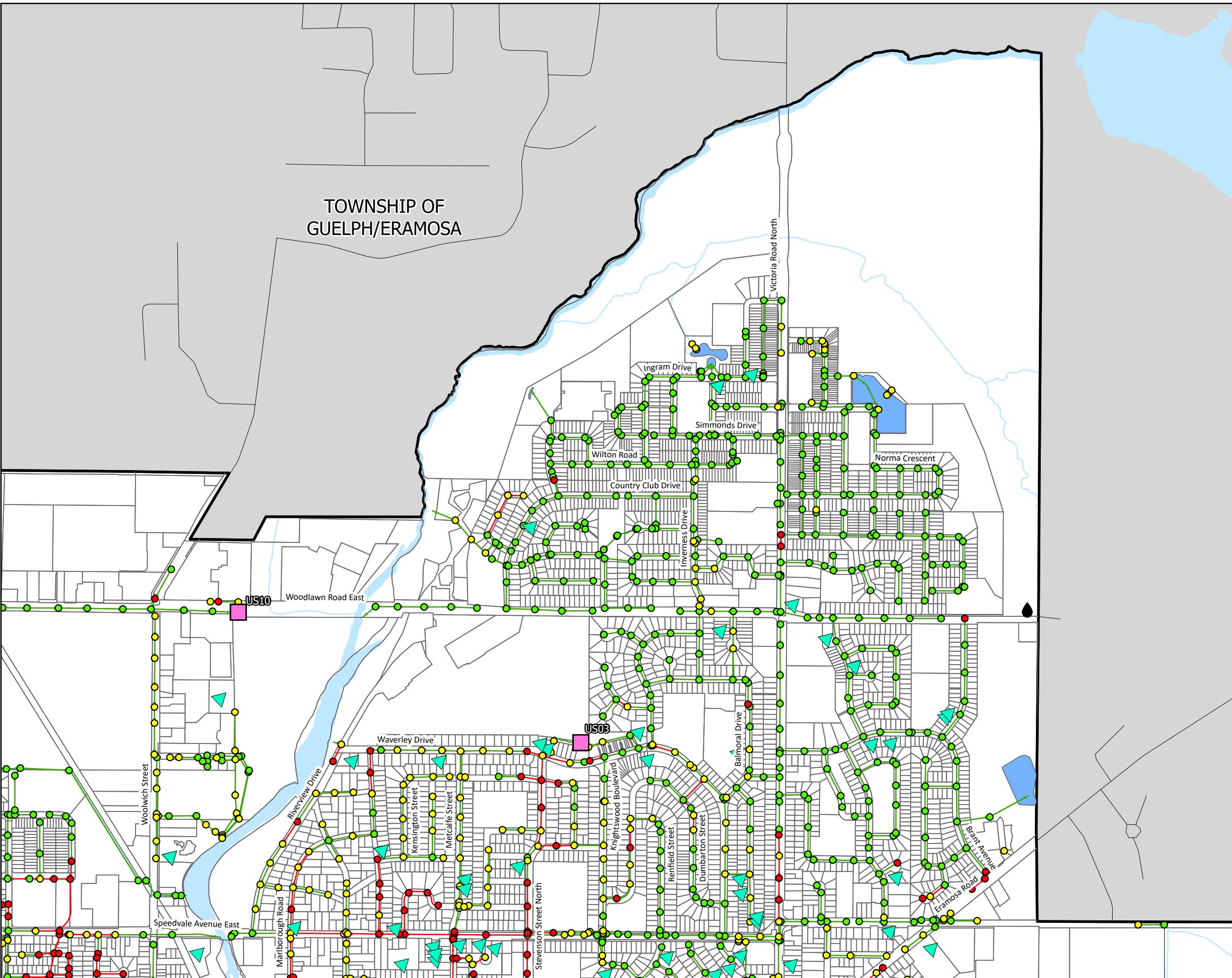
Figure

Storm Sewer 14mm Synthetic Storm 5-Year Conditions

Date: 2022-09-23
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

A scale bar labeled "Meters" with markings at 0, 75, 150, and 300.





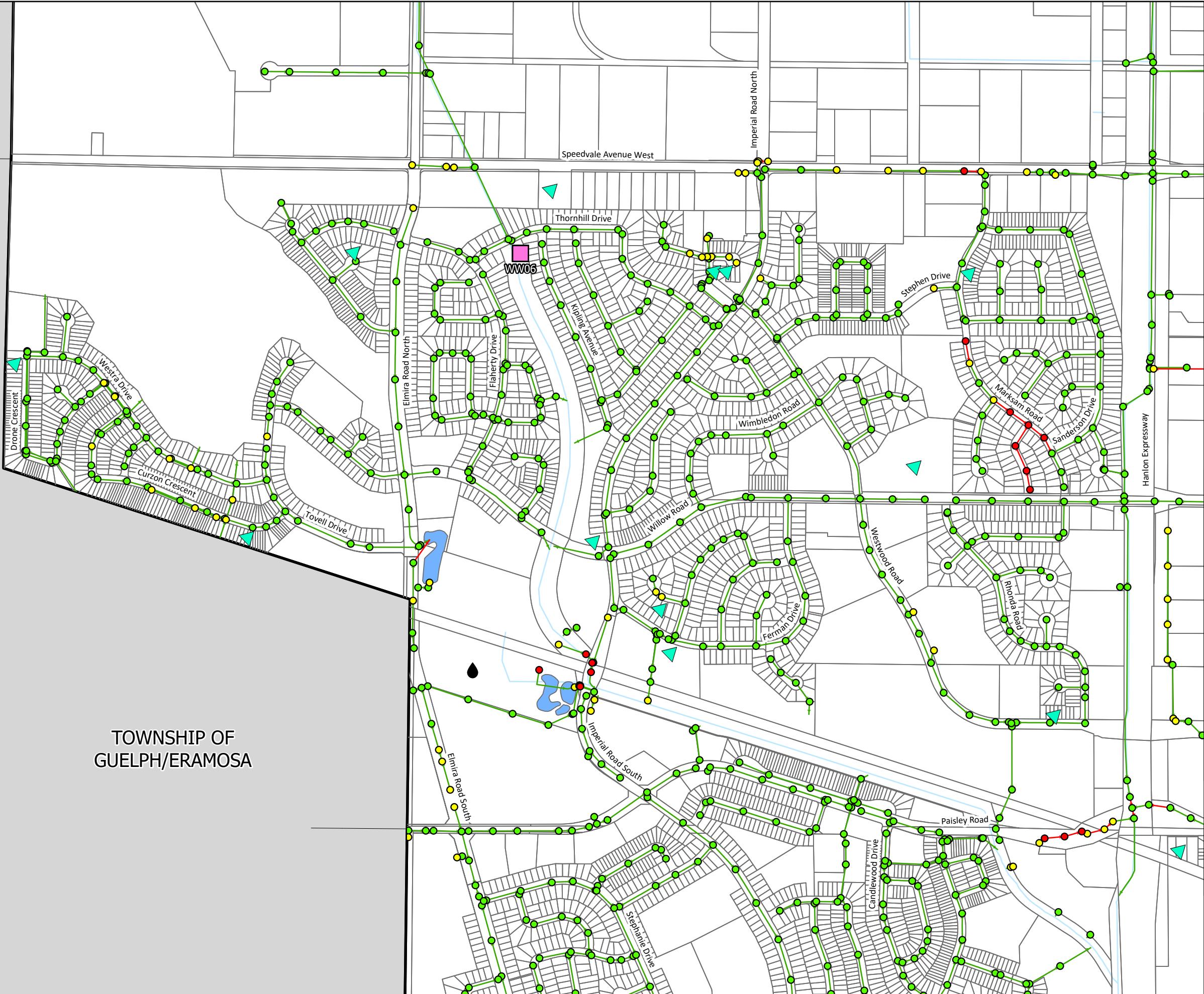
LOCATOR MAP

Figure

**Storm Sewer 14mm Synthetic Storm
5-Year Conditions**

Date: 2022-09-23
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 110 220 440 Meters



Legend

- Municipal Boundary
- Property
- Watercourse
- Stormwater Management Facility
- Flow Monitoring Locations (AMEC)
- Rain Gauge Locations (Municipal & GRCA)
- Flooding Complaint

Stormwater Sewer:

- Unsurcharged (Green line)
- Surcharged (Bottleneck) (Red line)

Node Hydraulic Grade Line:

- At or Above Surface
- 0-1.8m Below Ground Surface
- > 1.8m Below Ground Surface

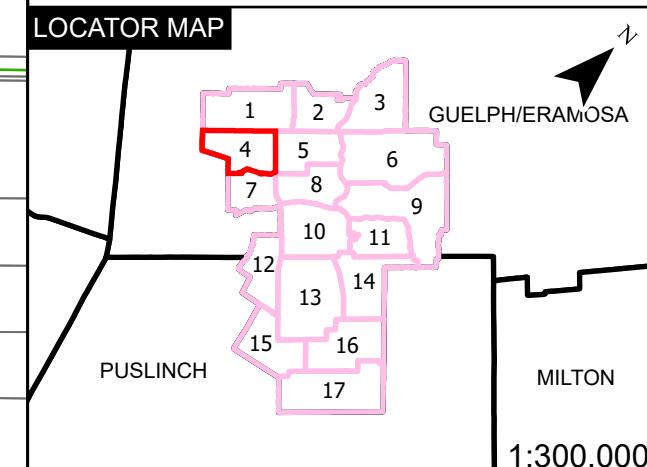
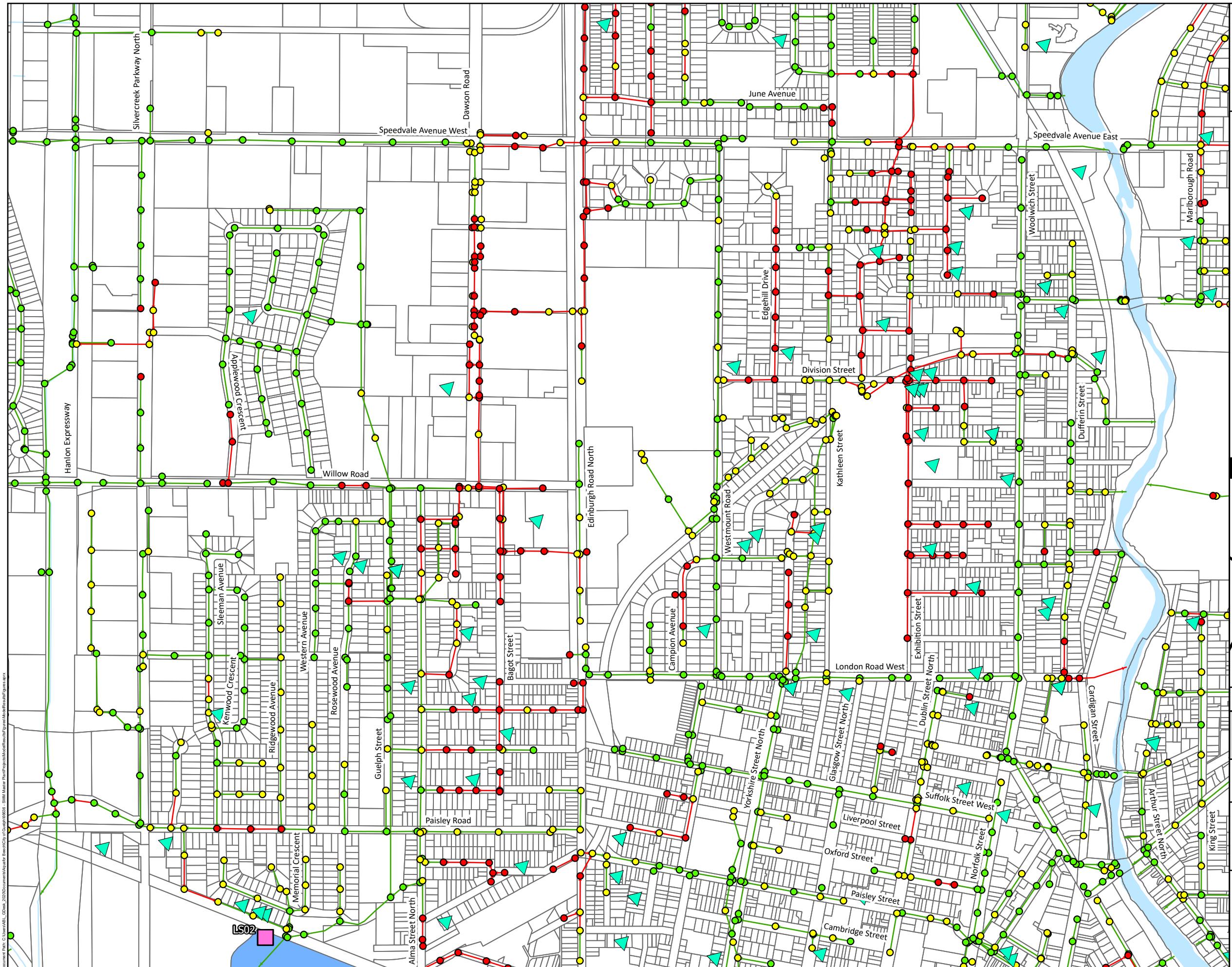


Figure
Storm Sewer 14mm Synthetic Storm
5-Year Conditions

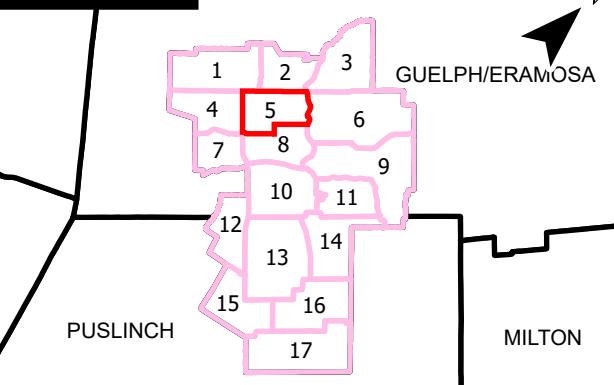
Date: 2022-09-23
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 90 180 360
Meters





LOCATOR MAP



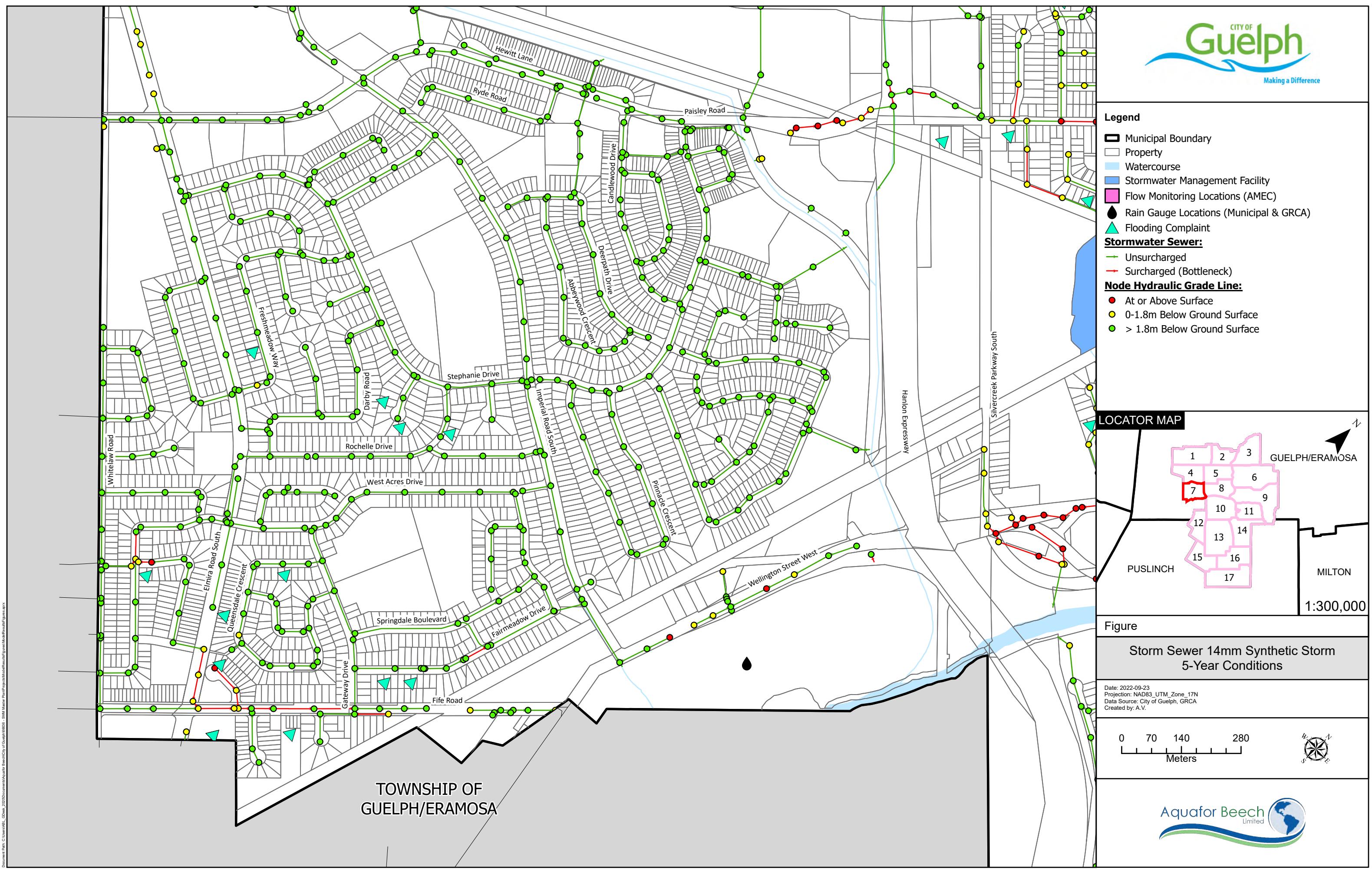
Figure

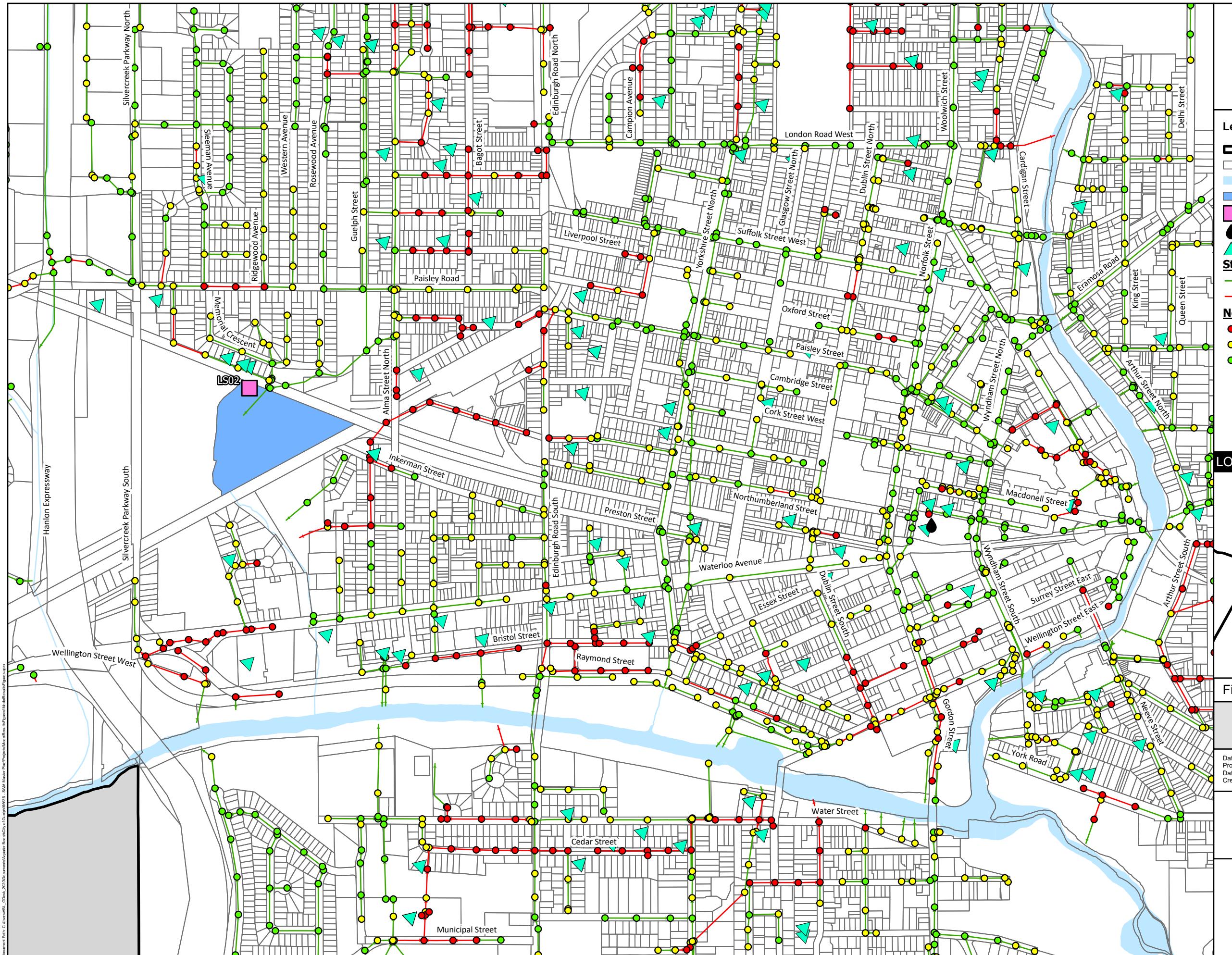
Storm Sewer 14mm Synthetic Storm
5-Year Conditions

Date: 2022-09-23
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 80 160 320
Meters







Legend

- Municipal Boundary
- Property
- Watercourse
- Stormwater Management Facility
- Flow Monitoring Locations (AMEC)
- Rain Gauge Locations (Municipal & GRCA)
- Flooding Complaint

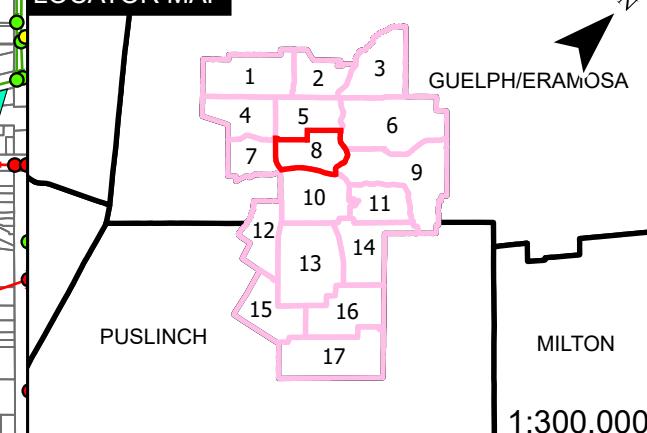
Stormwater Sewer:

- Unsurcharged
- Surcharged (Bottleneck)

Node Hydraulic Grade Line:

- At or Above Surface
- 0-1.8m Below Ground Surface
- > 1.8m Below Ground Surface

LOCATOR MAP



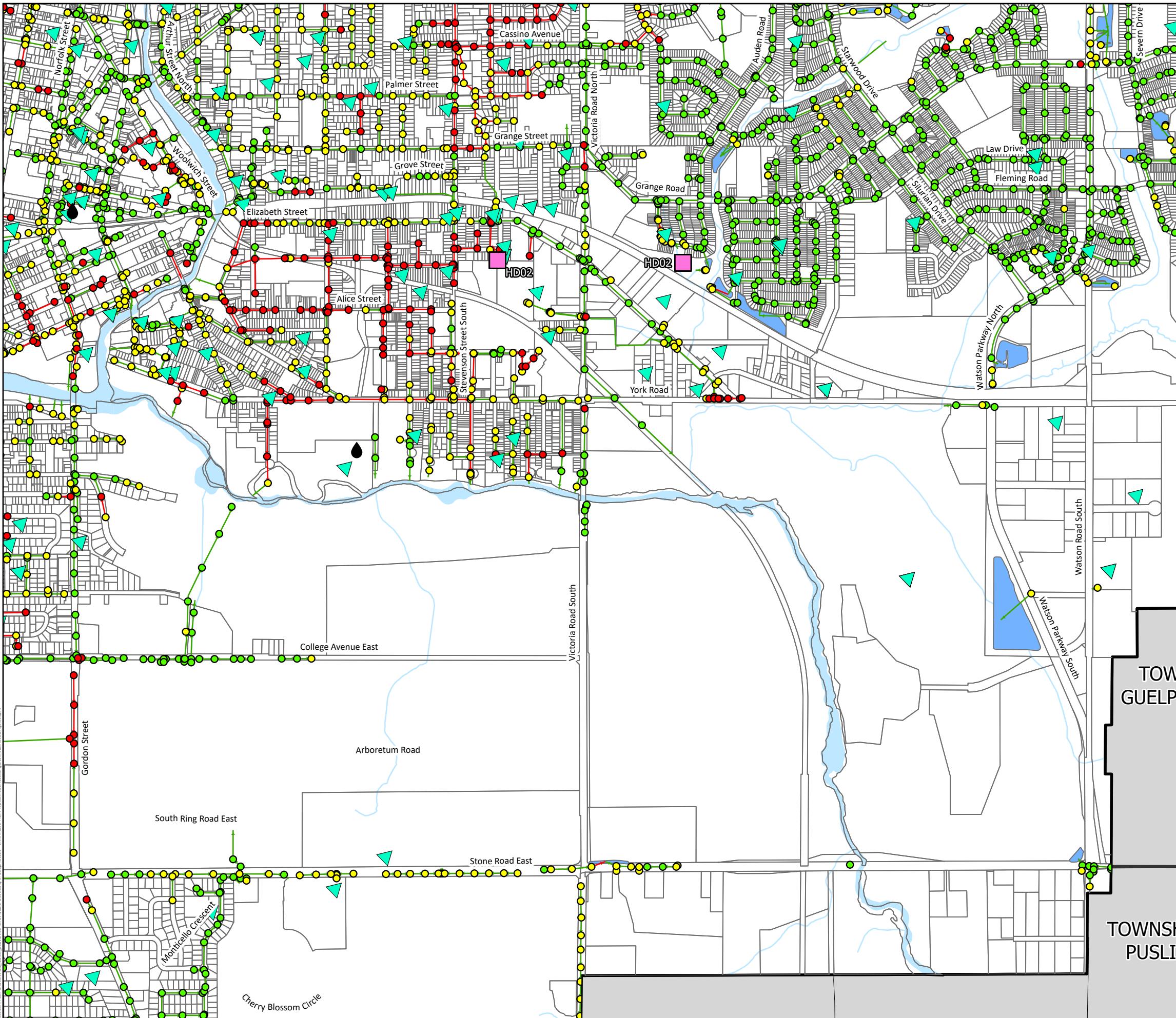
Figure

Storm Sewer 14mm Synthetic Storm 5-Year Conditions

Date: 2022-09-23
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 87.5 175 350
Meters





Legend

- Municipal Boundary
- Property
- Watercourse
- Stormwater Management Facility
- Flow Monitoring Locations (AMEC)
- Rain Gauge Locations (Municipal & GRCA)
- Flooding Complaint

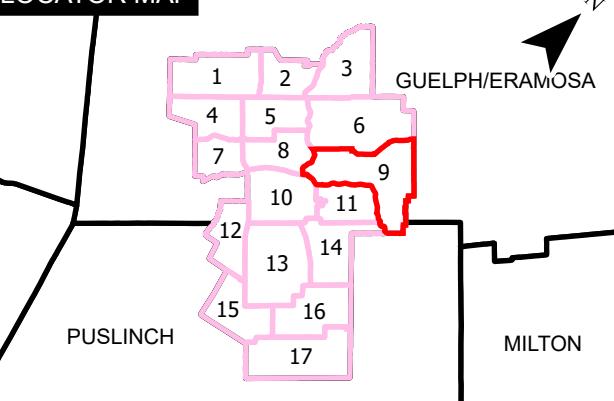
Stormwater Sewer:

- Unsurcharged
- Surcharged (Bottleneck)

Node Hydraulic Grade Line:

- At or Above Surface
- 0-1.8m Below Ground Surface
- > 1.8m Below Ground Surface

LOCATOR MAP



Figure

Storm Sewer 14mm Synthetic Storm
5-Year Conditions

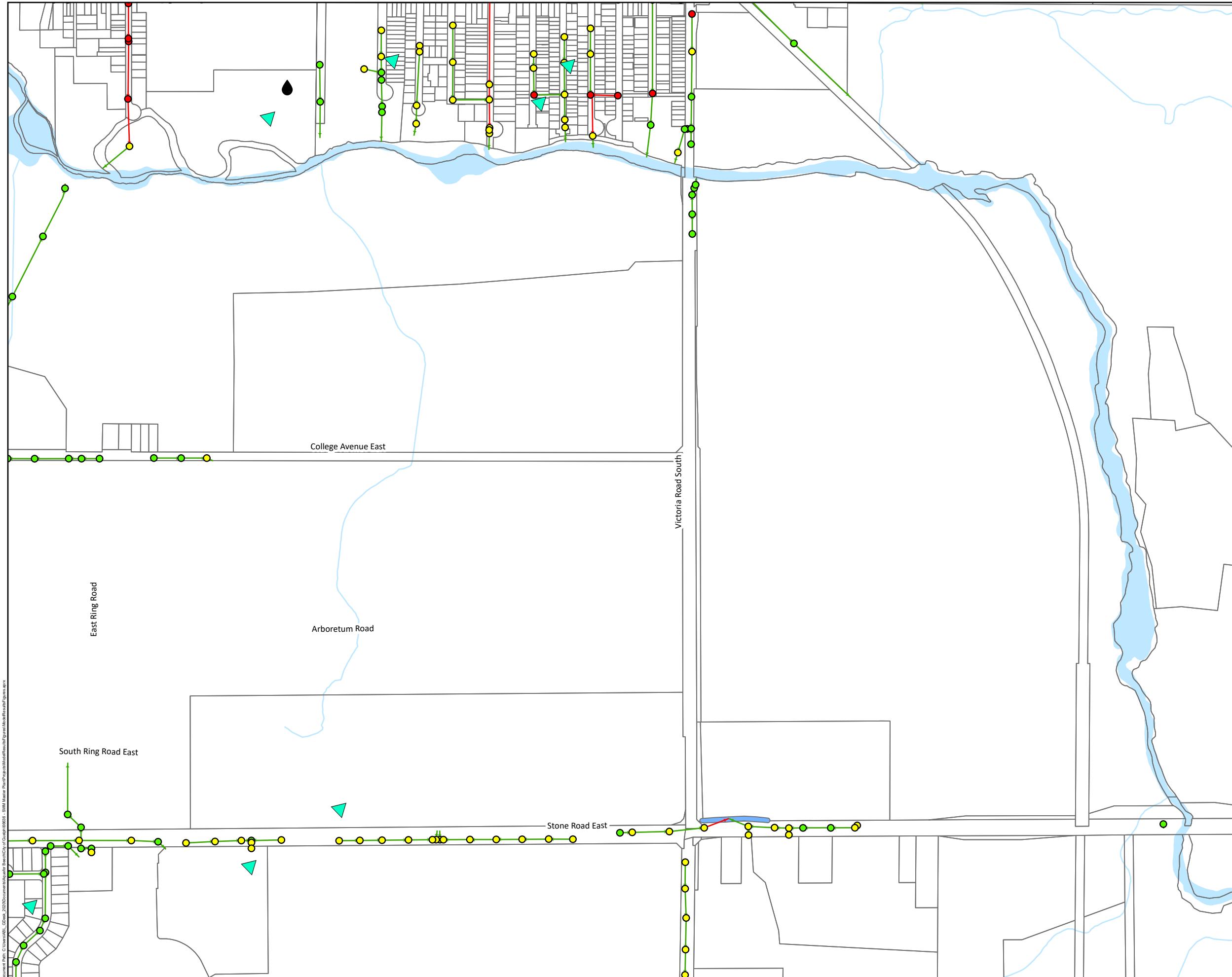
Date: 2022-09-23
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 145 290 580
Meters



TOWNSHIP OF
GUELPH/ERAMOSA

TOWNSHIP OF
PUSLINCH



LOCATOR MAP

Figure

**Storm Sewer 14mm Synthetic Storm
5-Year Conditions**

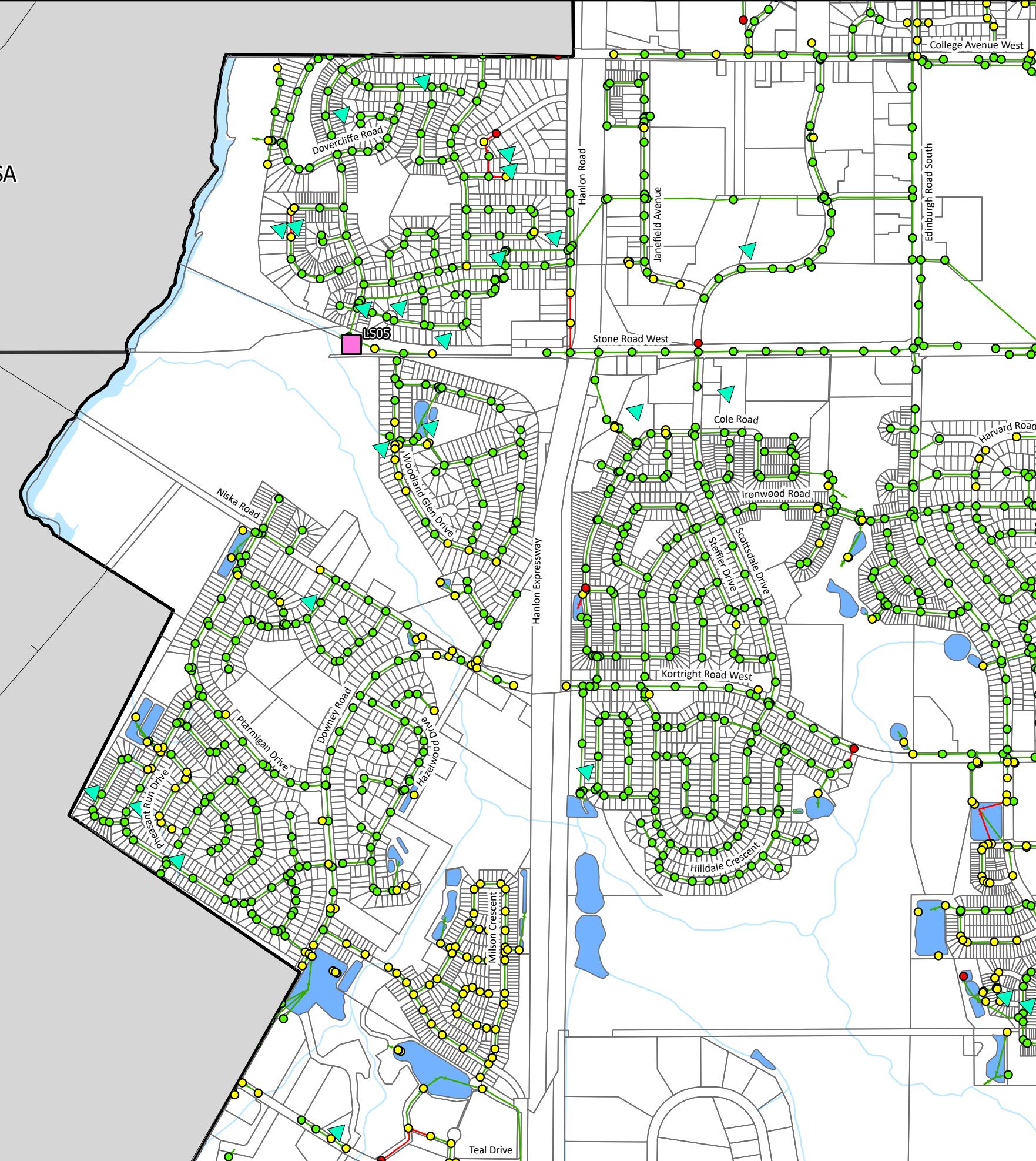
Date: 2022-09-23
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 75 150 300
Meters

TOWNSHIP OF
GUELPH/ERAMOSA

TOWNSHIP OF
PUSLINCH

Document Ref: C:\Users\AB_GIS\OneDrive\Documents\Aquafor Beech\2020\2020\Documents\Aquafor Beech\City of Guelph\Stormwater Management Plan\Project Model Results\Figure\NodeResults\Figures\80X



Legend

- Municipal Boundary
- Property
- Watercourse
- Stormwater Management Facility
- Flow Monitoring Locations (AMEC)
- Rain Gauge Locations (Municipal & GRCA)
- Flooding Complaint

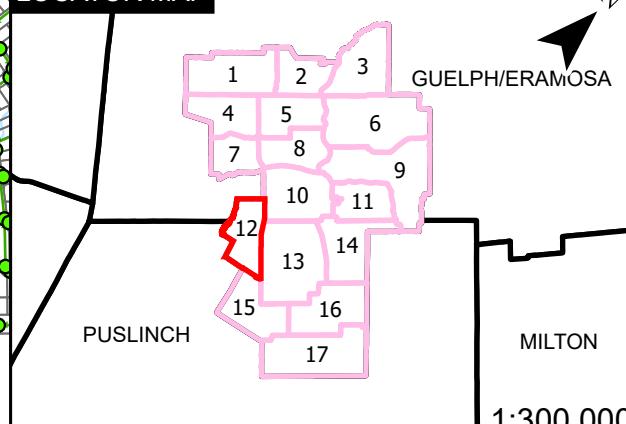
Stormwater Sewer:

- Unsurcharged
- Surcharged (Bottleneck)

Node Hydraulic Grade Line:

- At or Above Surface
- 0-1.8m Below Ground Surface
- > 1.8m Below Ground Surface

LOCATOR MAP



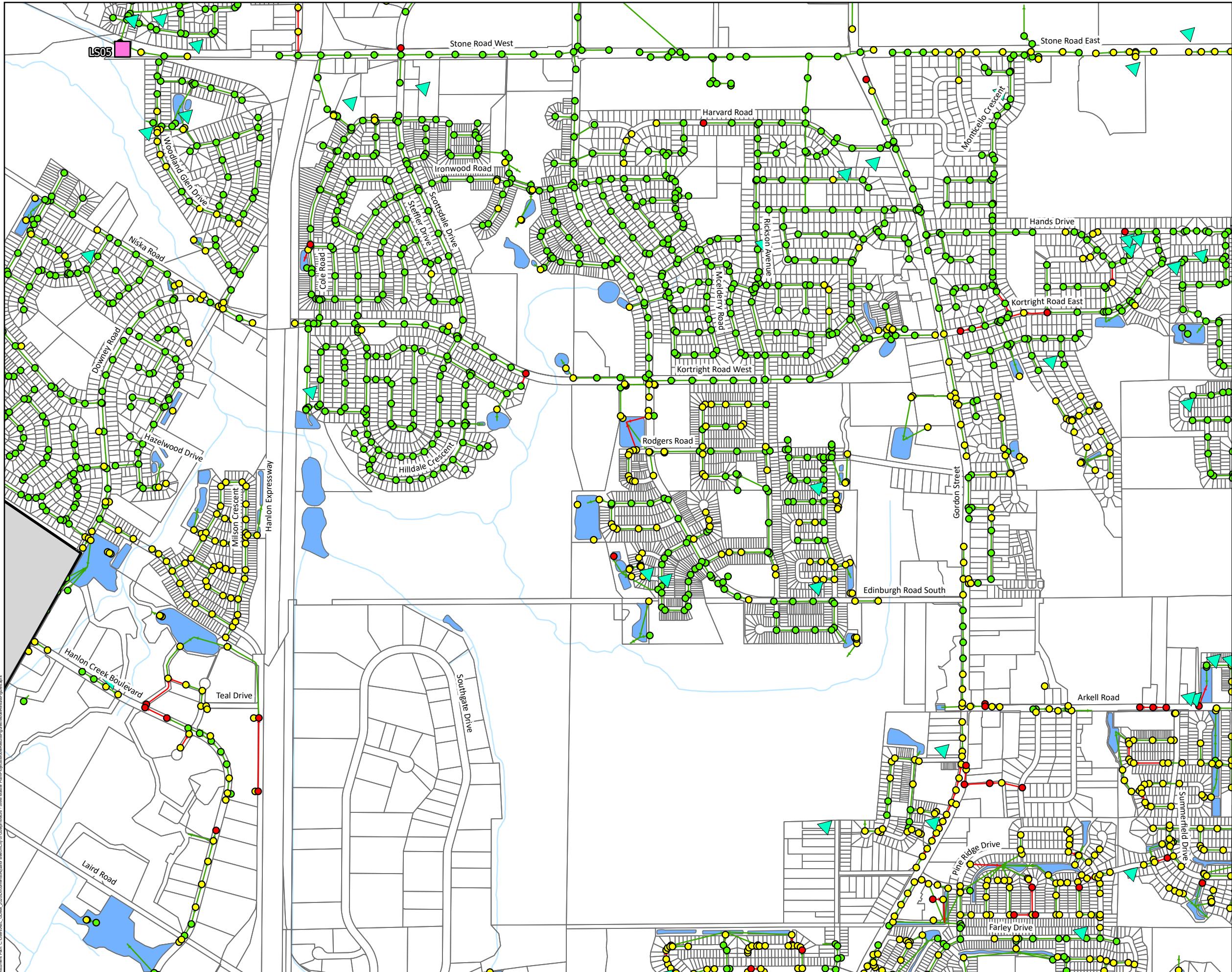
Figure

Storm Sewer 14mm Synthetic Storm
5-Year Conditions

Date: 2022-09-23
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 125 250 500
Meters





Legend

- Municipal Boundary
- Property
- Watercourse
- Stormwater Management Facility
- Flow Monitoring Locations (AMEC)
- Rain Gauge Locations (Municipal & GRCA)
- Flooding Complaint

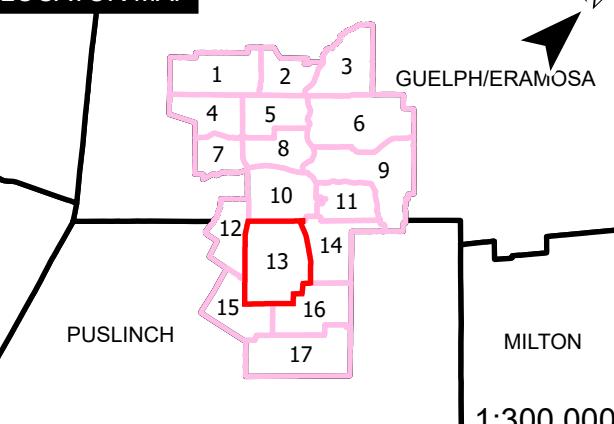
Stormwater Sewer:

- Unsurcharged
- Surcharged (Bottleneck)

Node Hydraulic Grade Line:

- At or Above Surface
- 0-1.8m Below Ground Surface
- > 1.8m Below Ground Surface

LOCATOR MAP



Figure

Storm Sewer 14mm Synthetic Storm
5-Year Conditions

Date: 2022-09-23
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 130 260 520
Meters



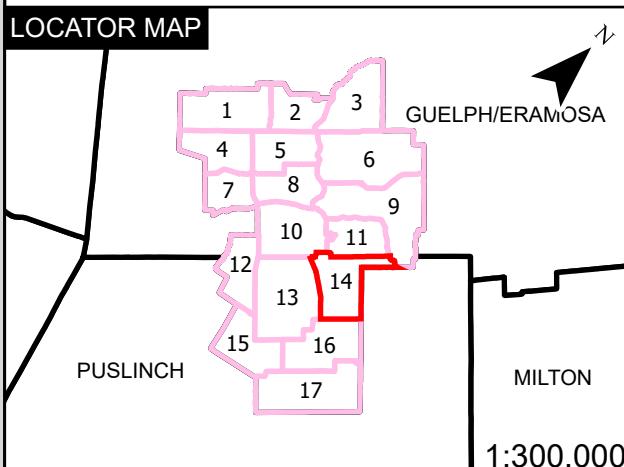
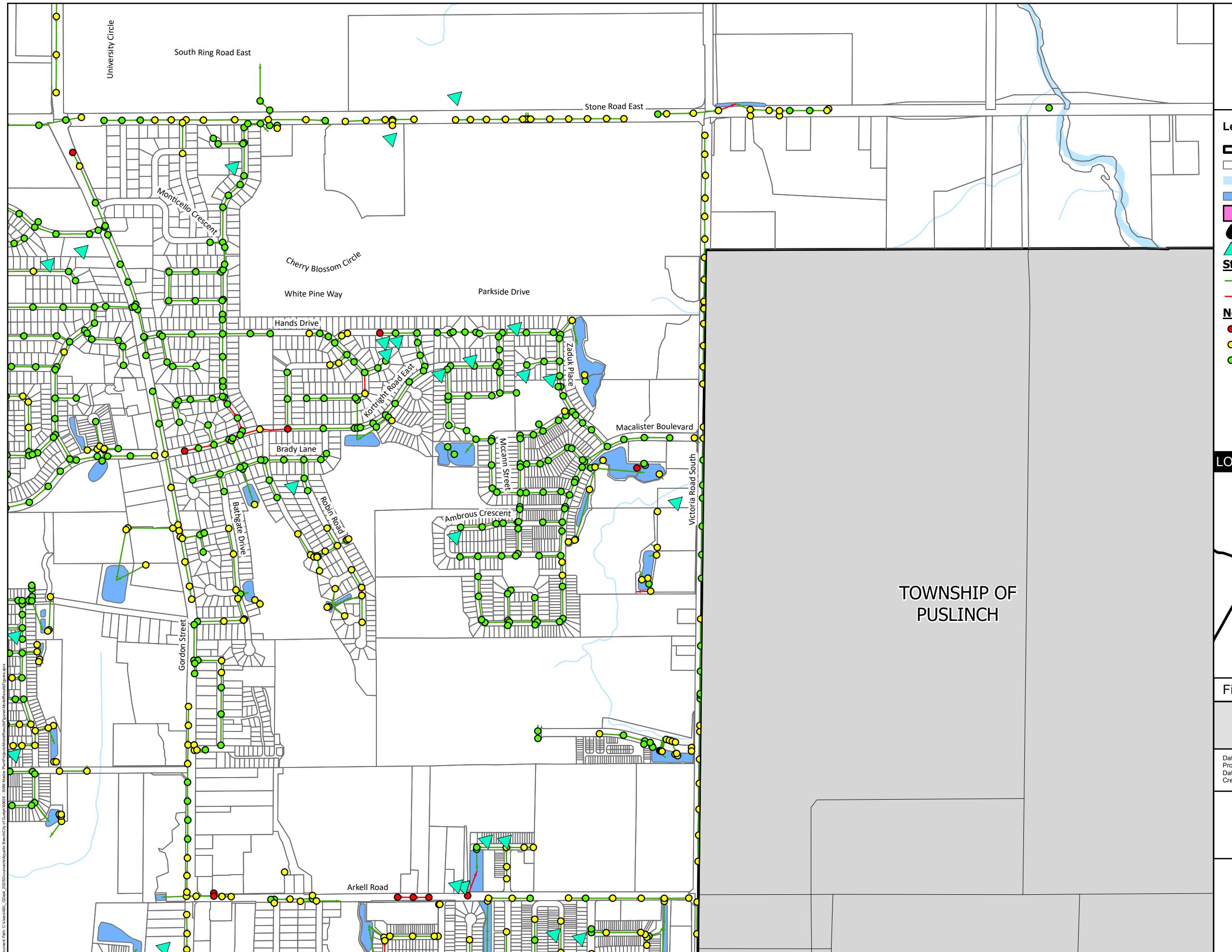


Figure
Storm Sewer 14mm Synthetic Storm
5-Year Conditions

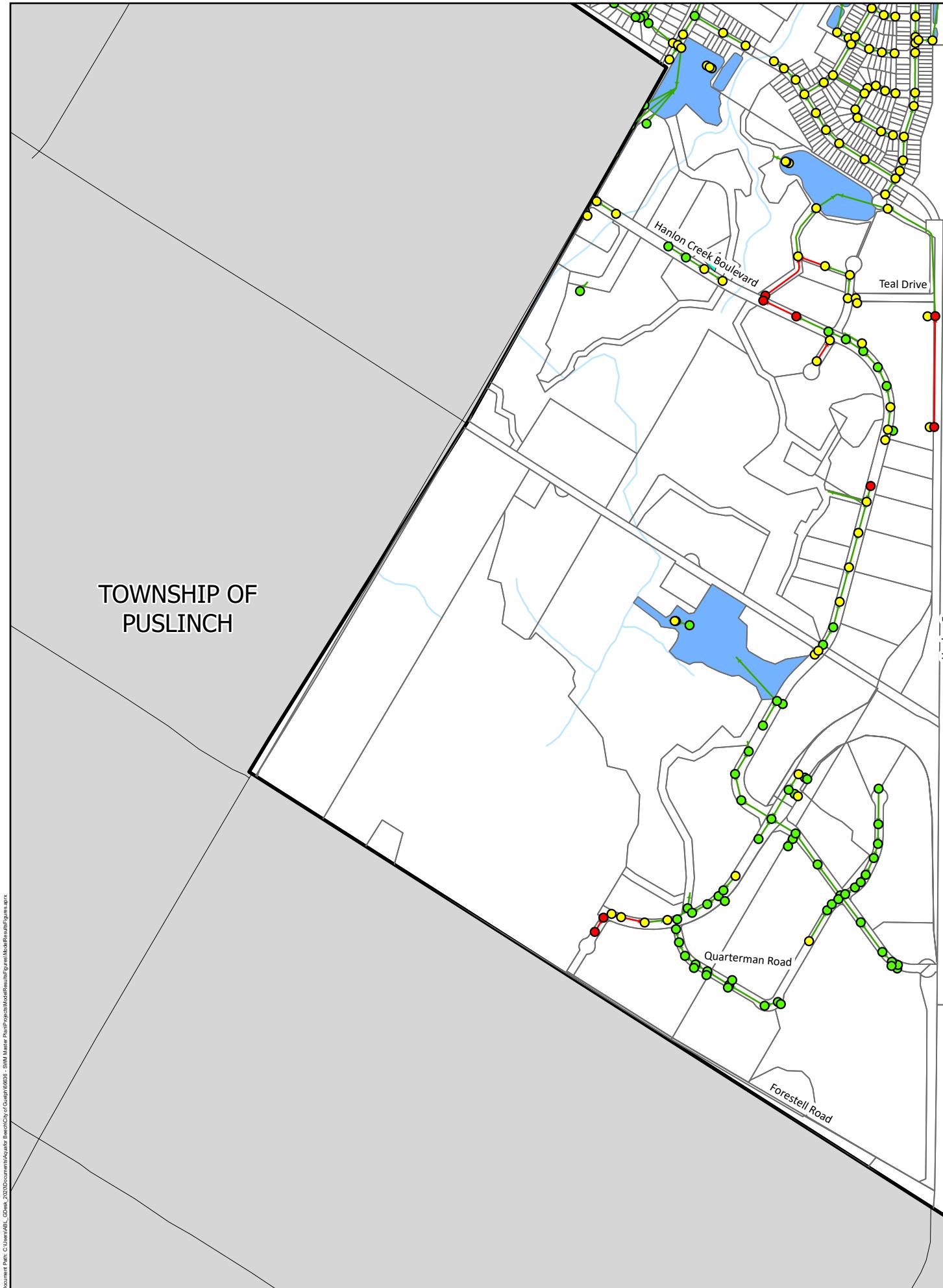
Date: 2022-09-23
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 105 210 420
Meters



TOWNSHIP OF
PUSLINCH

Document Name: C:\Users\AB_Geek\OneDrive\Documents\Aquafor Beech\2020\2020 Document\Survey\0801 - SWM Master Plan\Project\Phase 1\Report\NodeResults\Figure14mmSyntheticStorm5YearConditions.mxd



- Legend**
- Municipal Boundary
 - Property
 - Watercourse
 - Stormwater Management Facility
 - Flow Monitoring Locations (AMEC)
 - Rain Gauge Locations (Municipal & GRCA)
 - ▲ Flooding Complaint
- Stormwater Sewer:**
- Unsurcharged
 - Surcharged (Bottleneck)
- Node Hydraulic Grade Line:**
- At or Above Surface
 - 0-1.8m Below Ground Surface
 - > 1.8m Below Ground Surface

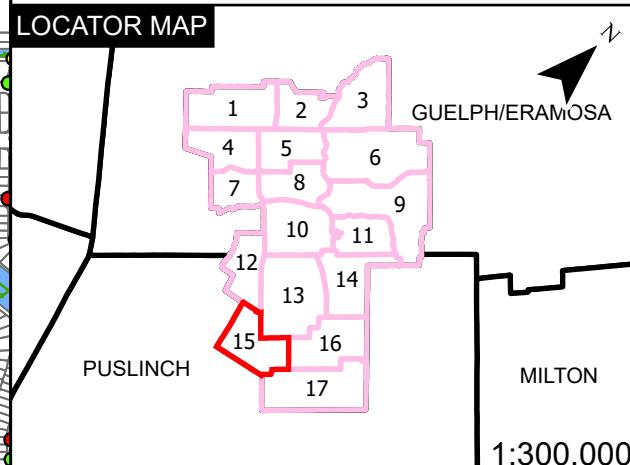


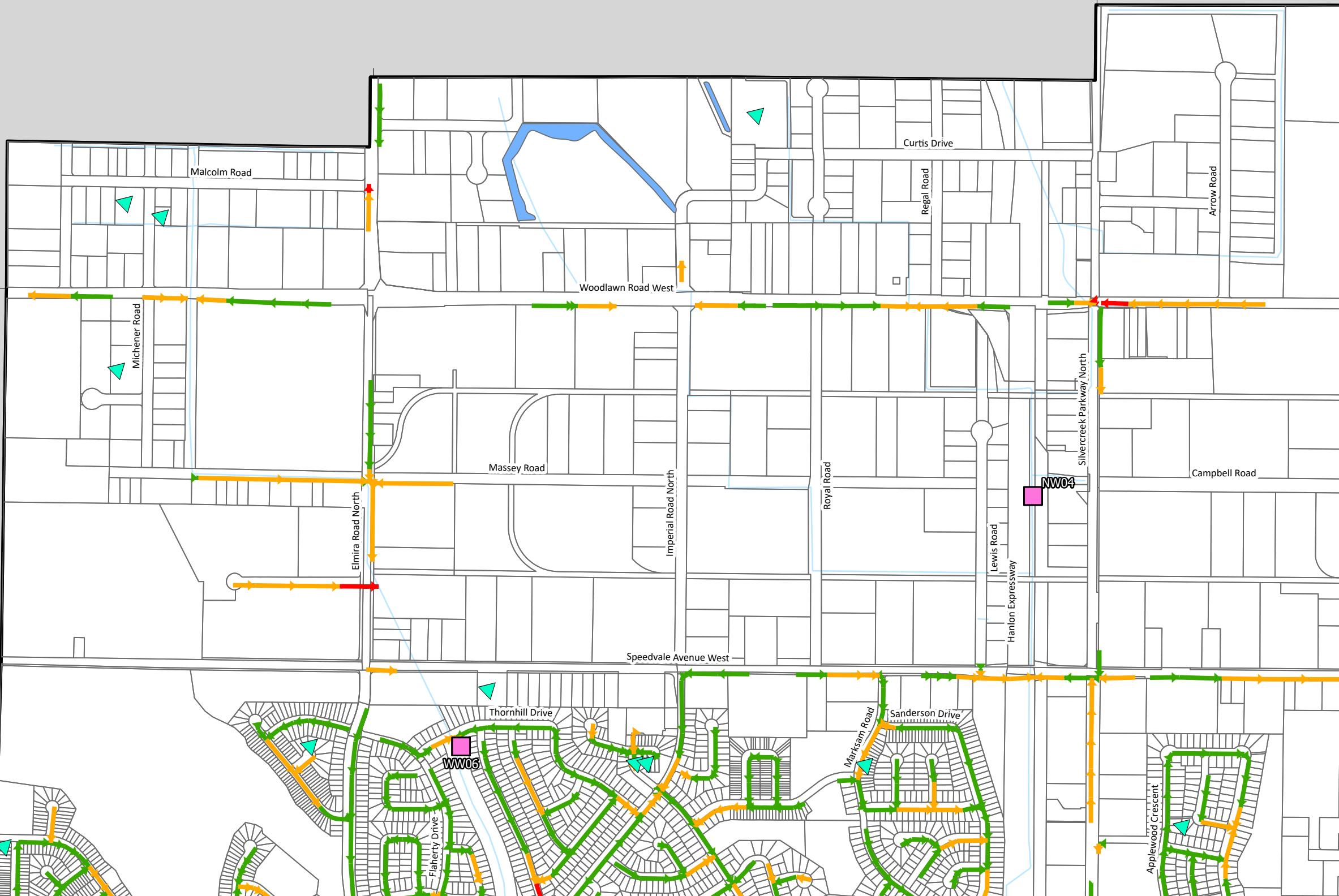
Figure
Storm Sewer 14mm Synthetic Storm
5-Year Conditions

Date: 2022-09-23
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 112.5 225 450
Meters



TOWNSHIP OF GUELPH/ERAMOSA



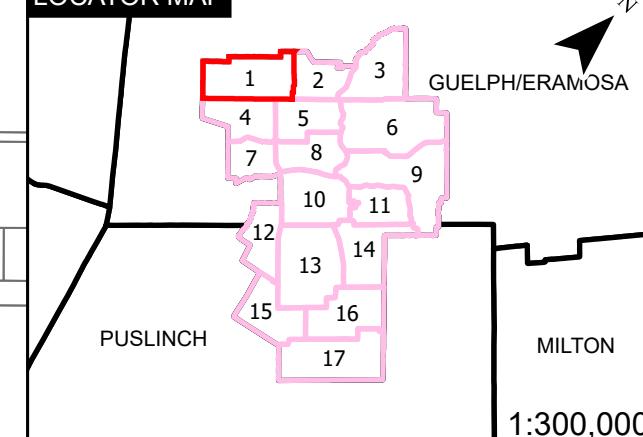
Legend

- Municipal Boundary
- Property
- Watercourse
- Stormwater Management Facility
- Flow Monitoring Locations (AMEC)
- Flooding Complaint
- Rain Gauge Locations (Municipal & GRCA)

Overland Flooding Depth(m):

- >0.3m
- 0.15m - 0.3m
- 0 - 0.15m

LOCATOR MAP



Figure

Overland 14mm Synthetic Storm
100-Year Conditions

Date: 2022-09-20
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 112.5 225 450
Meters



TOWNSHIP OF
GUELPH/ERAMOSA

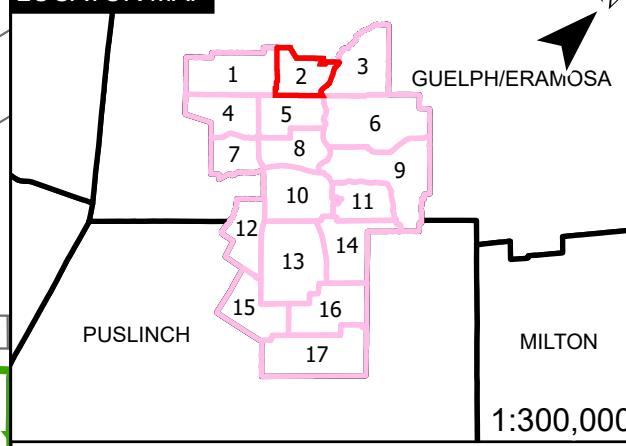
Legend

- Municipal Boundary
- Property
- Watercourse
- Stormwater Management Facility
- Flow Monitoring Locations (AMEC)
- Flooding Complaint
- Rain Gauge Locations (Municipal & GRCA)

Overland Flooding Depth(m):

- >0.3m
- 0.15m - 0.3m
- 0 - 0.15m

LOCATOR MAP



Figure

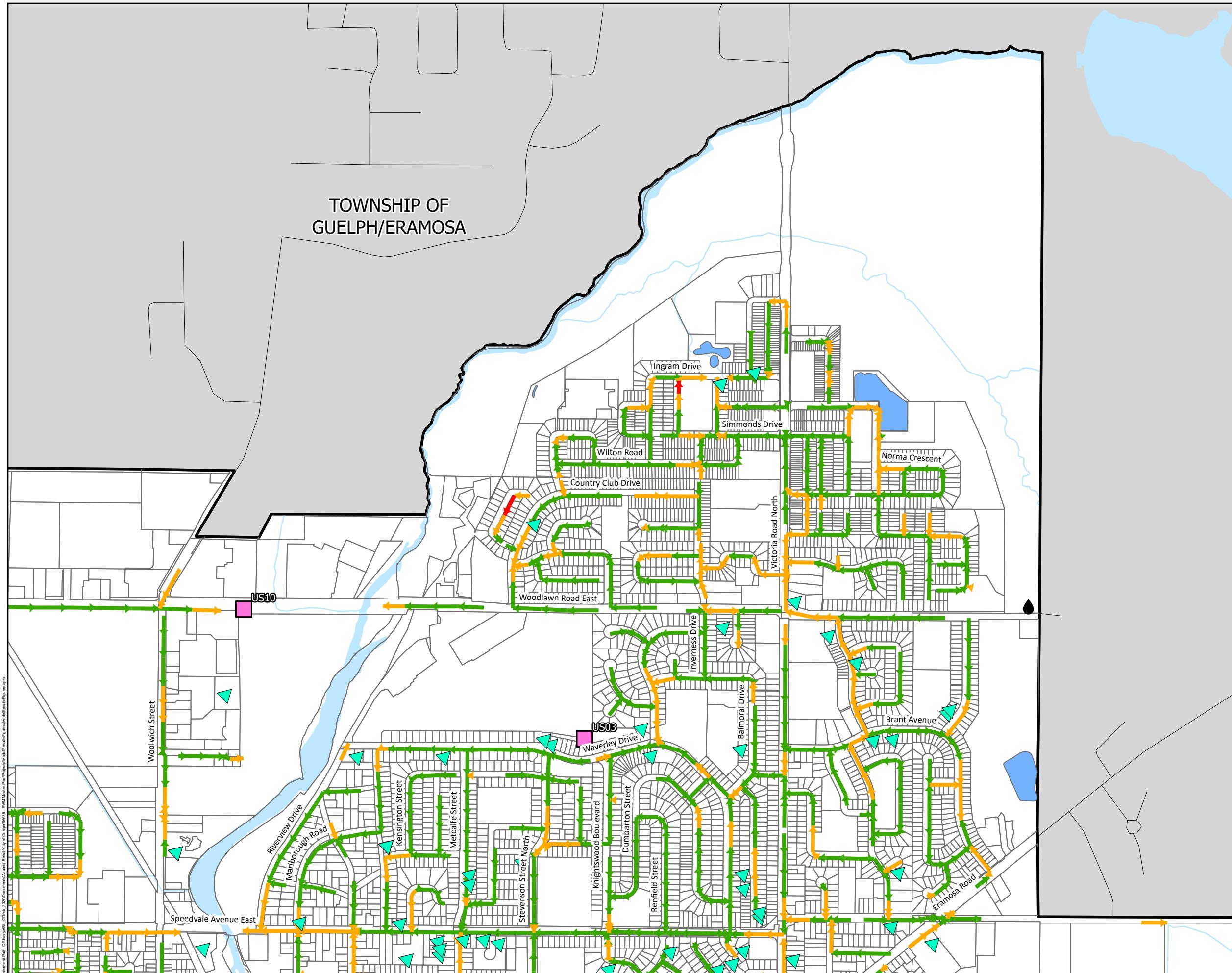
Overland 14mm Synthetic Storm
100-Year Conditions

Date: 2022-09-20
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 75 150 300
Meters



TOWNSHIP OF
GUELPH/ERAMOSA



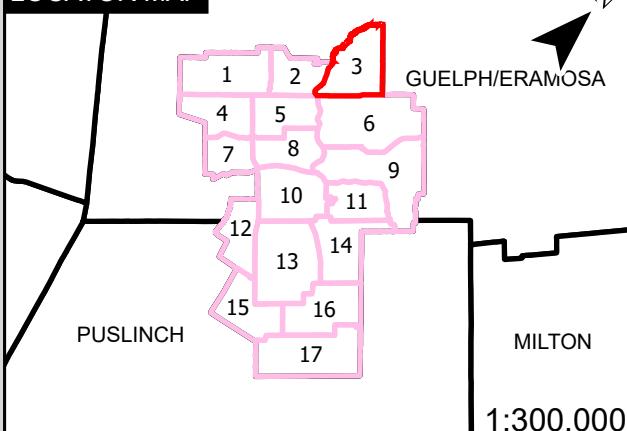
Legend

- Municipal Boundary
- Property
- Watercourse
- Stormwater Management Facility
- Flow Monitoring Locations (AMEC)
- Flooding Complaint
- Rain Gauge Locations (Municipal & GRCA)

Overland Flooding Depth(m):

- >0.3m
- 0.15m - 0.3m
- 0 - 0.15m

LOCATOR MAP



Figure

Overland 14mm Synthetic Storm
100-Year Conditions

Date: 2022-09-20
Projection: NAD83, UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 110 220 440
Meters





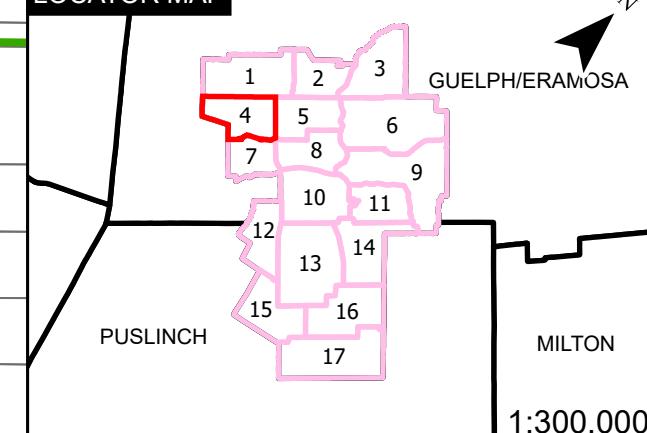
Legend

- Municipal Boundary
 - Property
 - Watercourse
 - Stormwater Management Facility
 - Flow Monitoring Locations (AMEC)
 - Flooding Complaint
 - Rain Gauge Locations (Municipal & GRCA)

Overland Flooding Depth(m):

- ▶ >0.3m
 - ▶ 0.15m - 0.3m
 - ▶ 0 - 0.15m

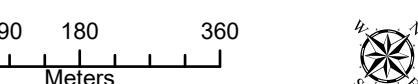
LOCATOR MAP



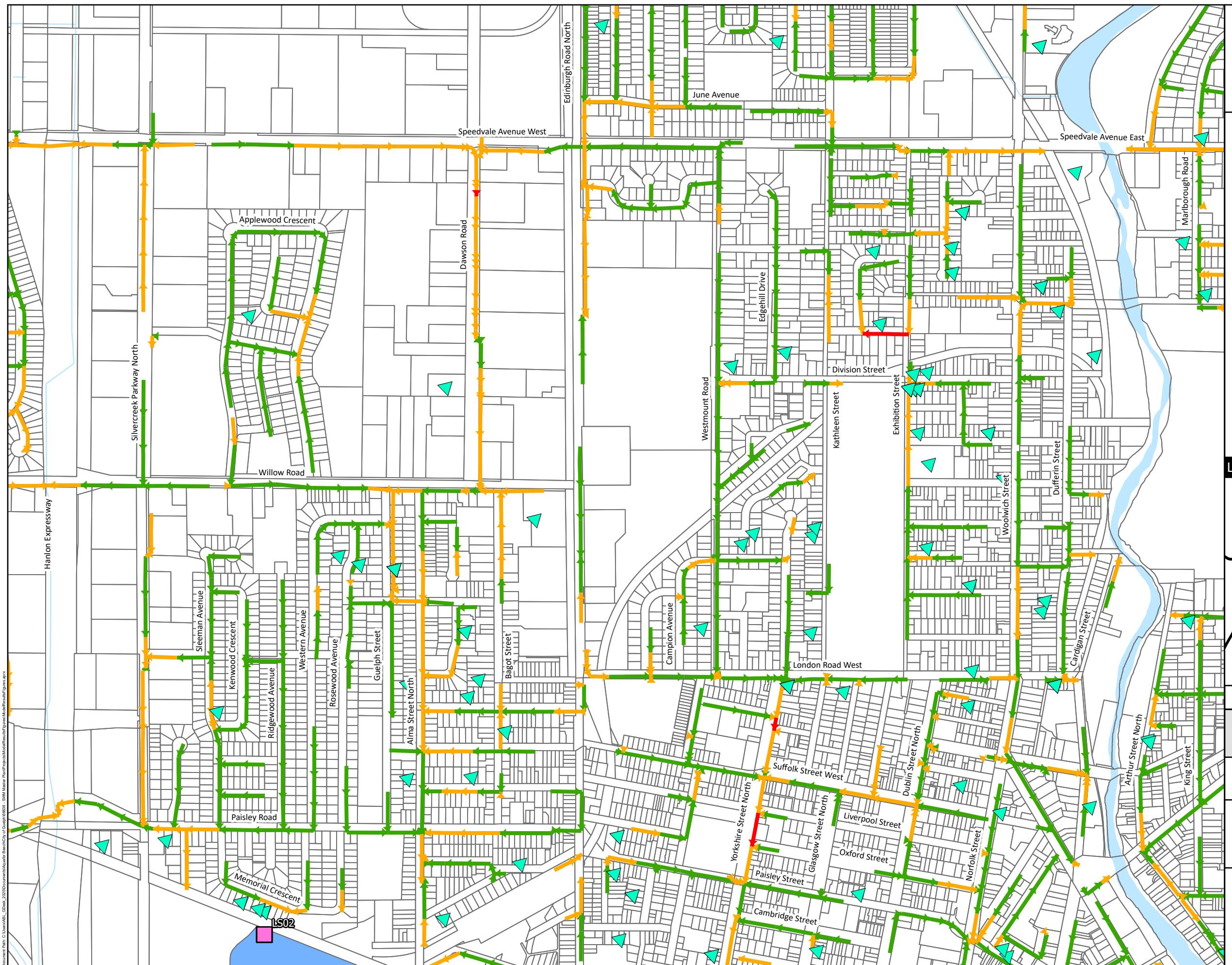
Figure

Overland 14mm Synthetic Storm 100-Year Conditions

Date: 2022-09-20
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.



TOWNSHIP OF GUELPH/ERAMOSA



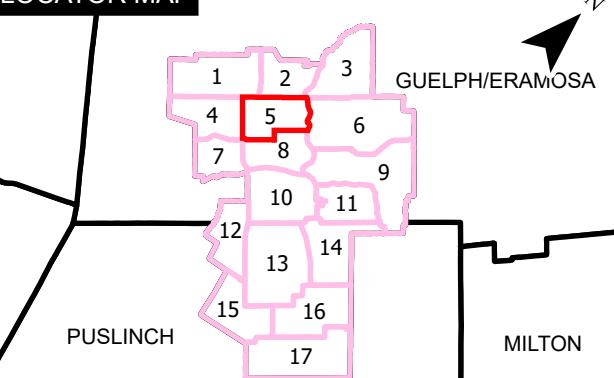
Legend

- Municipal Boundary
 - Property
 - Watercourse
 - Stormwater Management Facility
 - Flow Monitoring Locations (AMEC)
 - Flooding Complaint
 - Rain Gauge Locations (Municipal & GRCA)

Overland Flooding Depth(m):

 - >0.3m
 - 0.15m - 0.3m
 - 0 - 0.15m

LOCATOR MAP



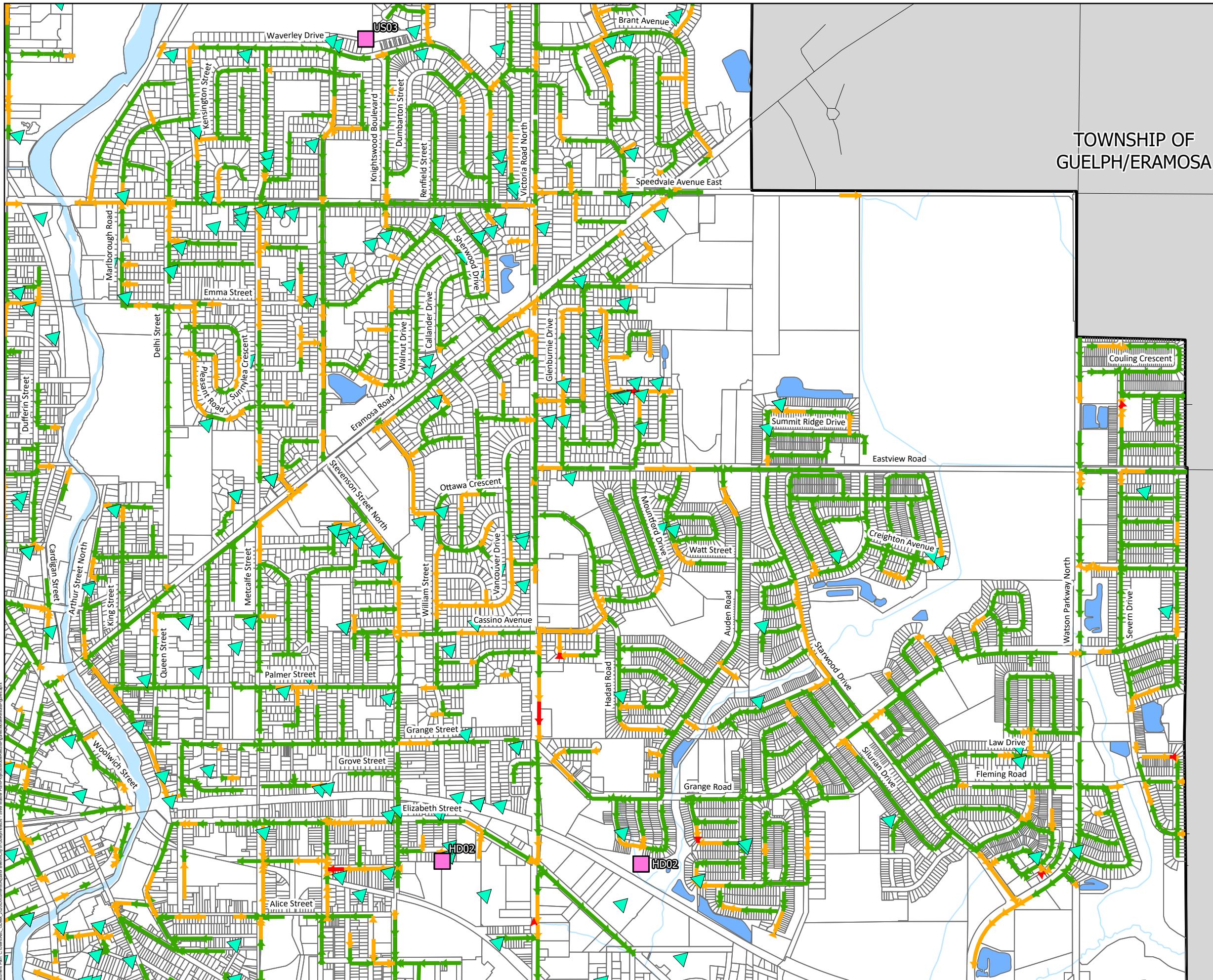
Figure

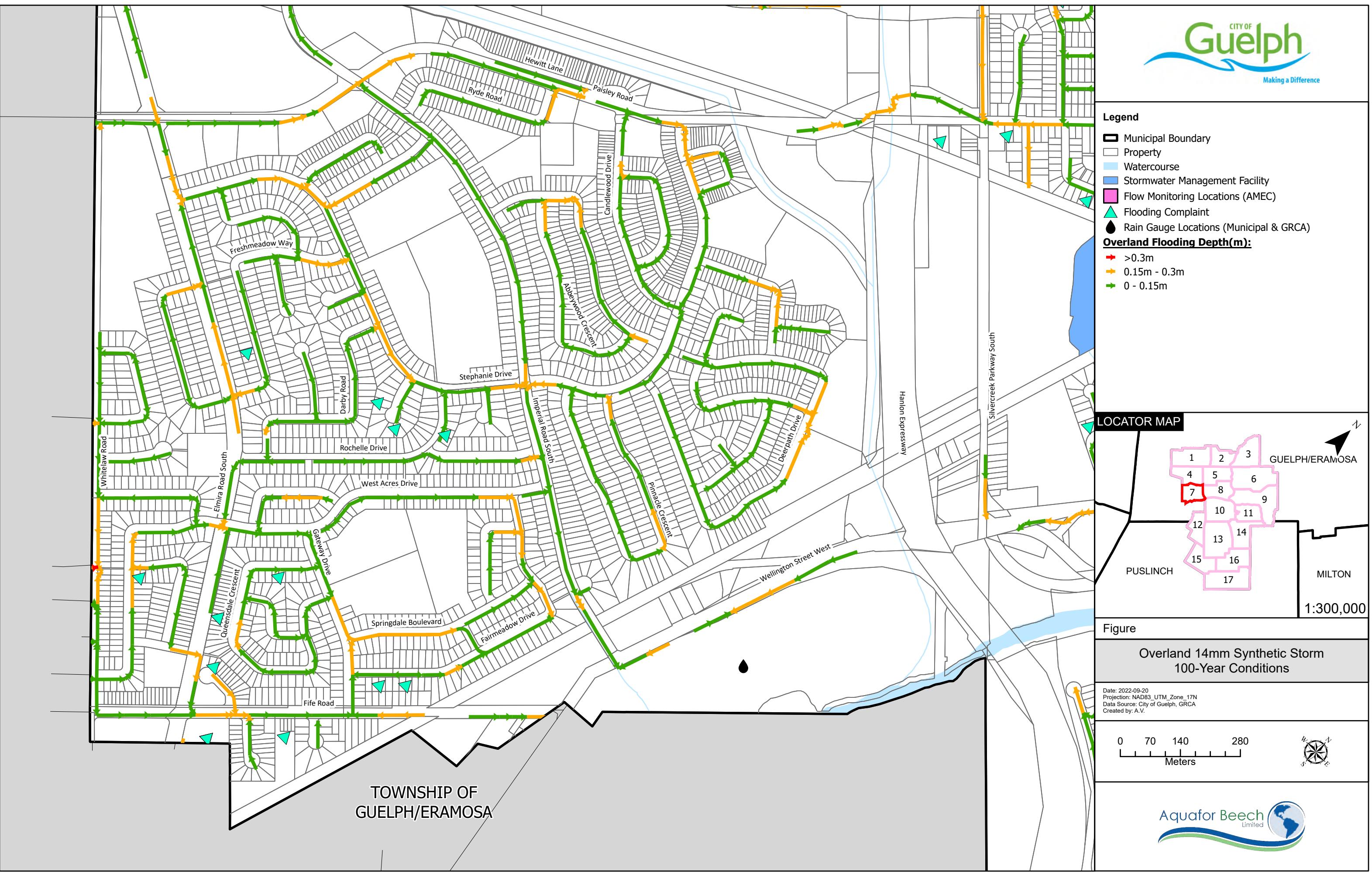
Overland 14mm Synthetic Storm 100-Year Conditions

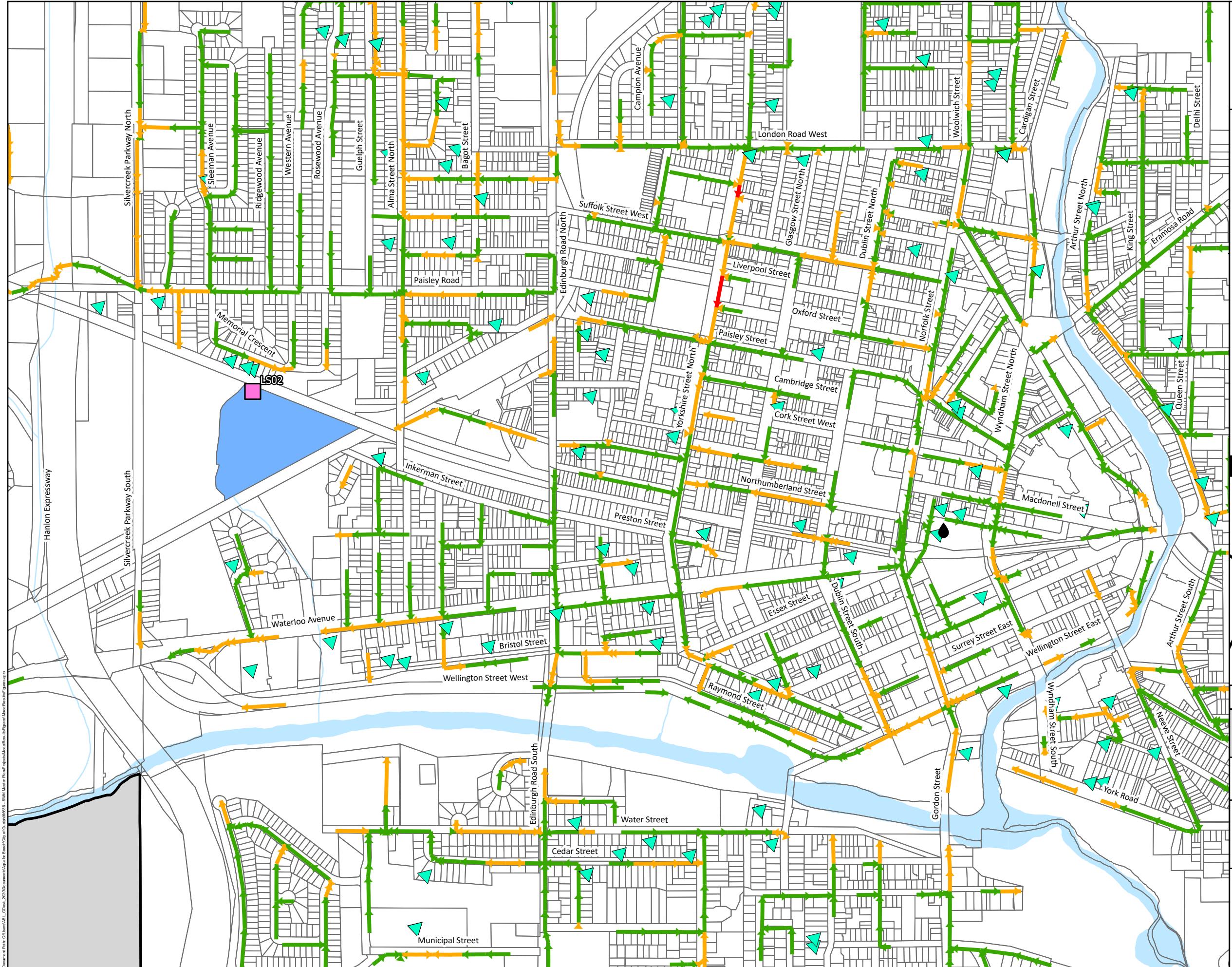
Date: 2022-09-20
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A V

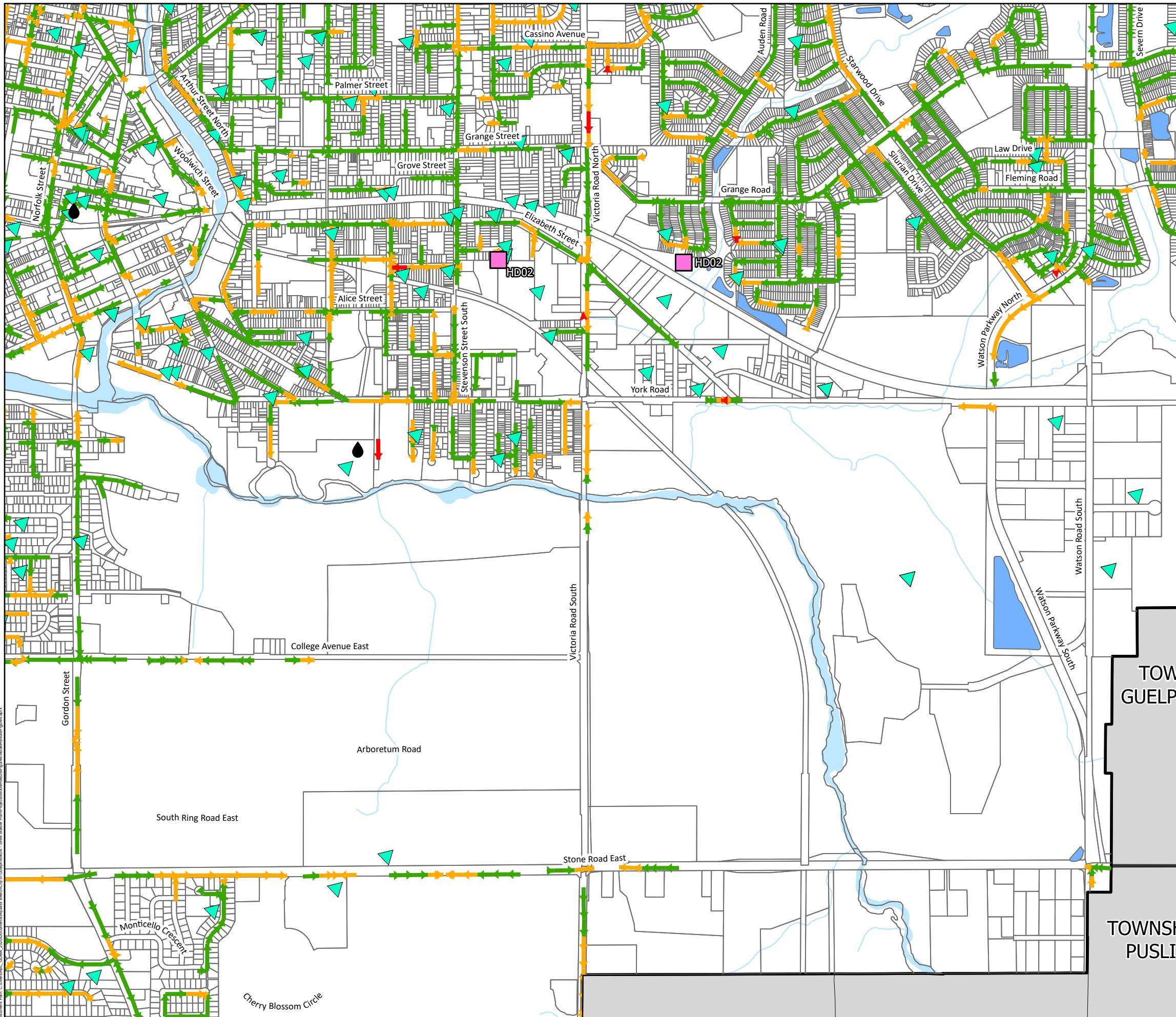
A horizontal number line with arrows at both ends. The numbers 0, 80, 160, and 320 are labeled above the line. There are four major tick marks between 0 and 80, four between 80 and 160, and four between 160 and 320. Each major tick mark has five smaller tick marks below it, representing increments of 10 units.











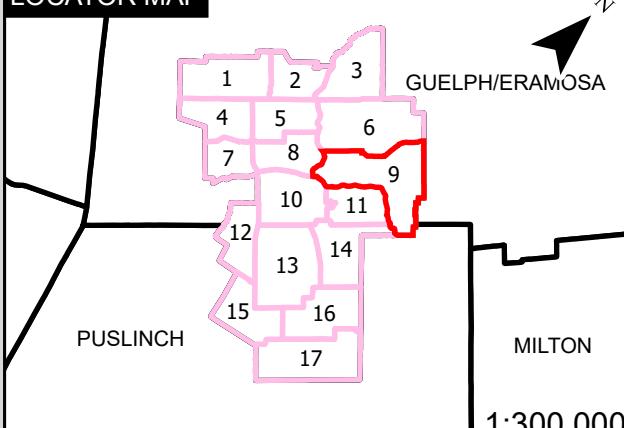
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LOCATOR MAP



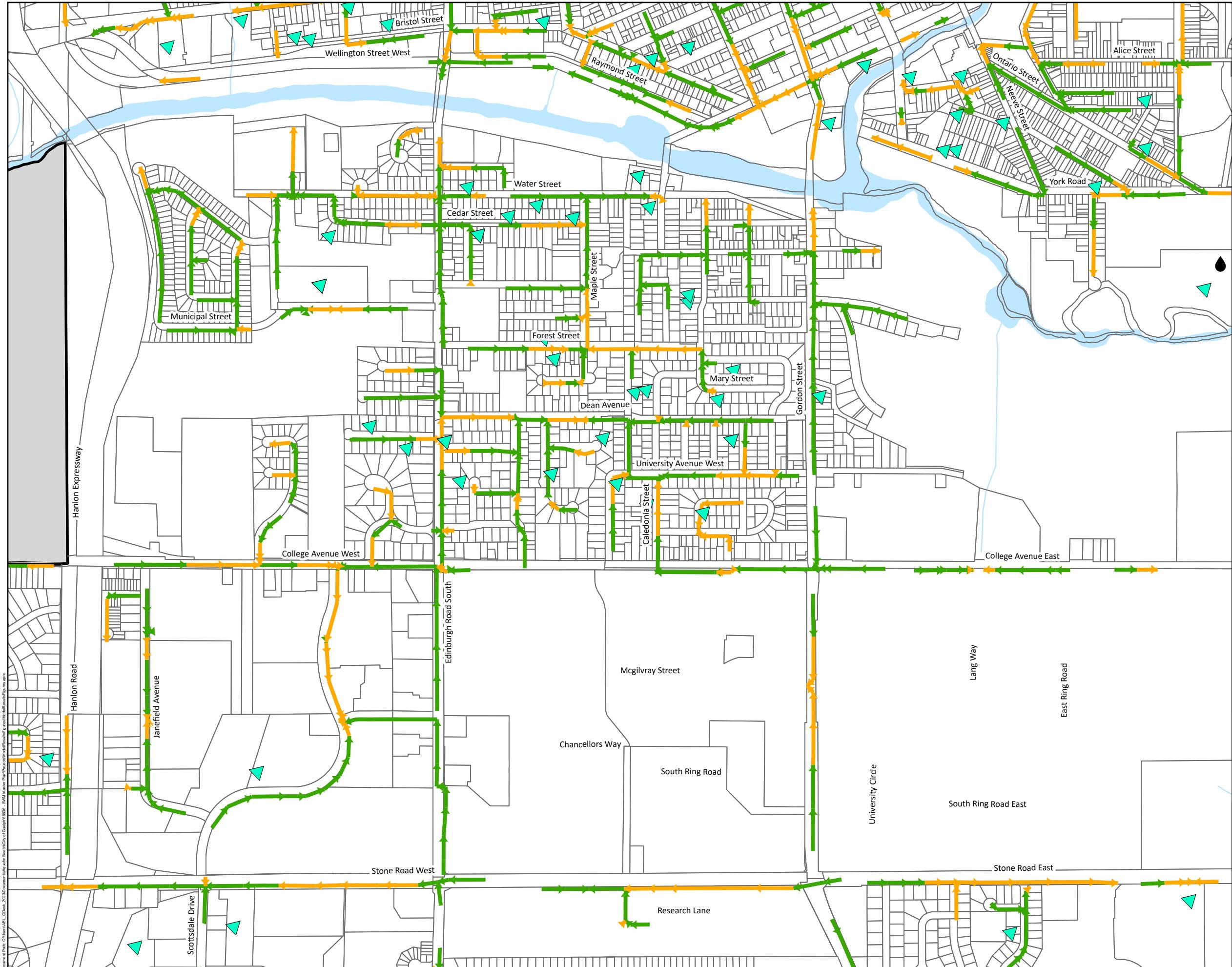
Figure

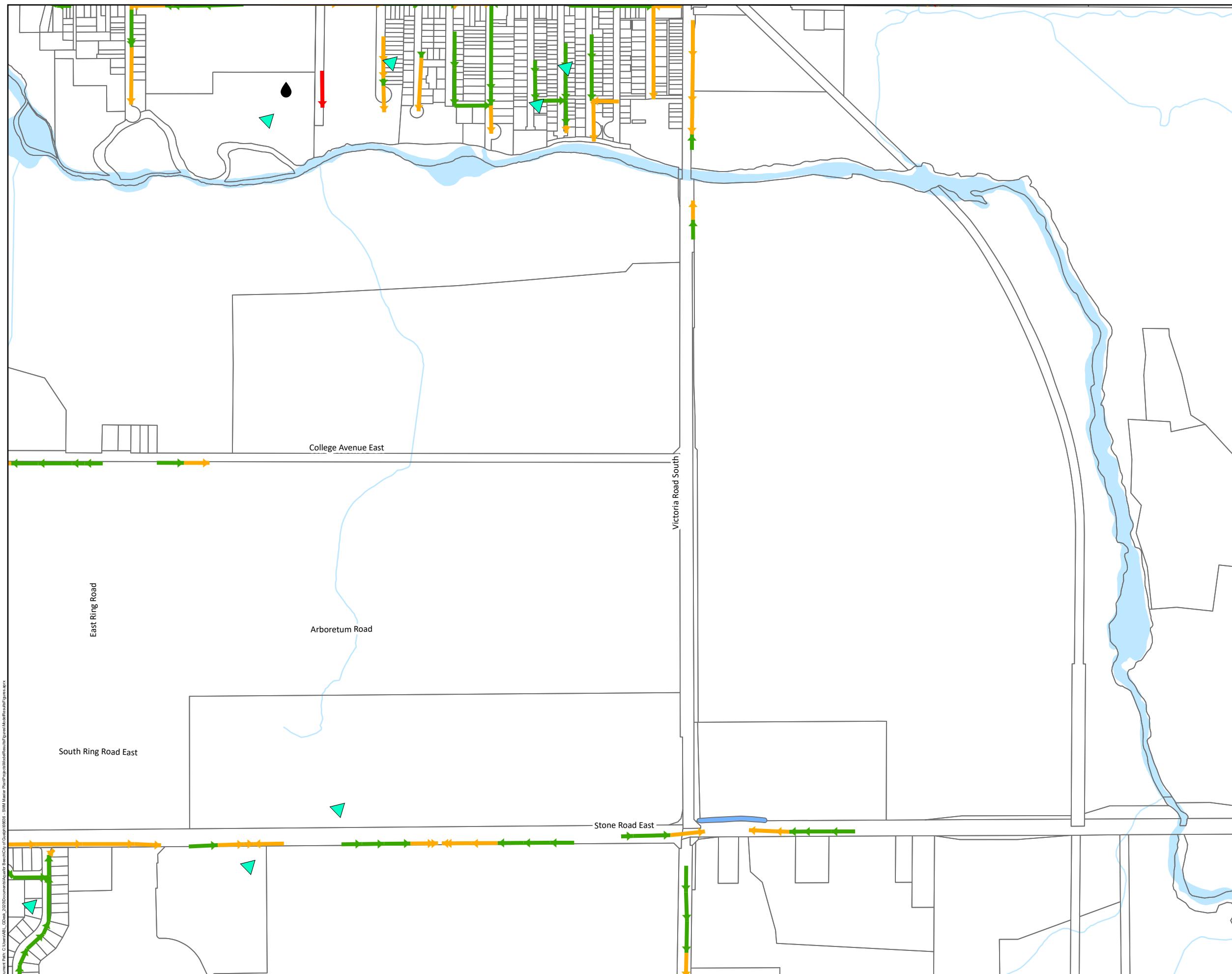
Overland 14mm Synthetic Storm
100-Year Conditions

Date: 2022-09-20
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 145 290 580
Meters







Legend

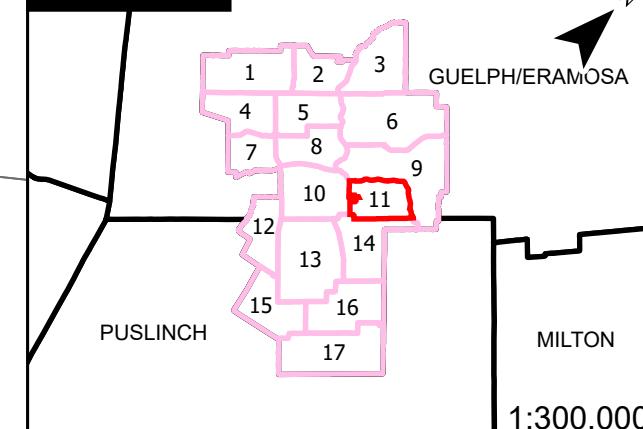
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Overland Flooding Depth(m):

Overland Flooding Depth (iii):

- ▶ >0.3m
 - ▶ 0.15m - 0.3m
 - ▶ 0 - 0.15m

LOCATOR MAP



Figure

Overland 14mm Synthetic Storm 100-Year Conditions

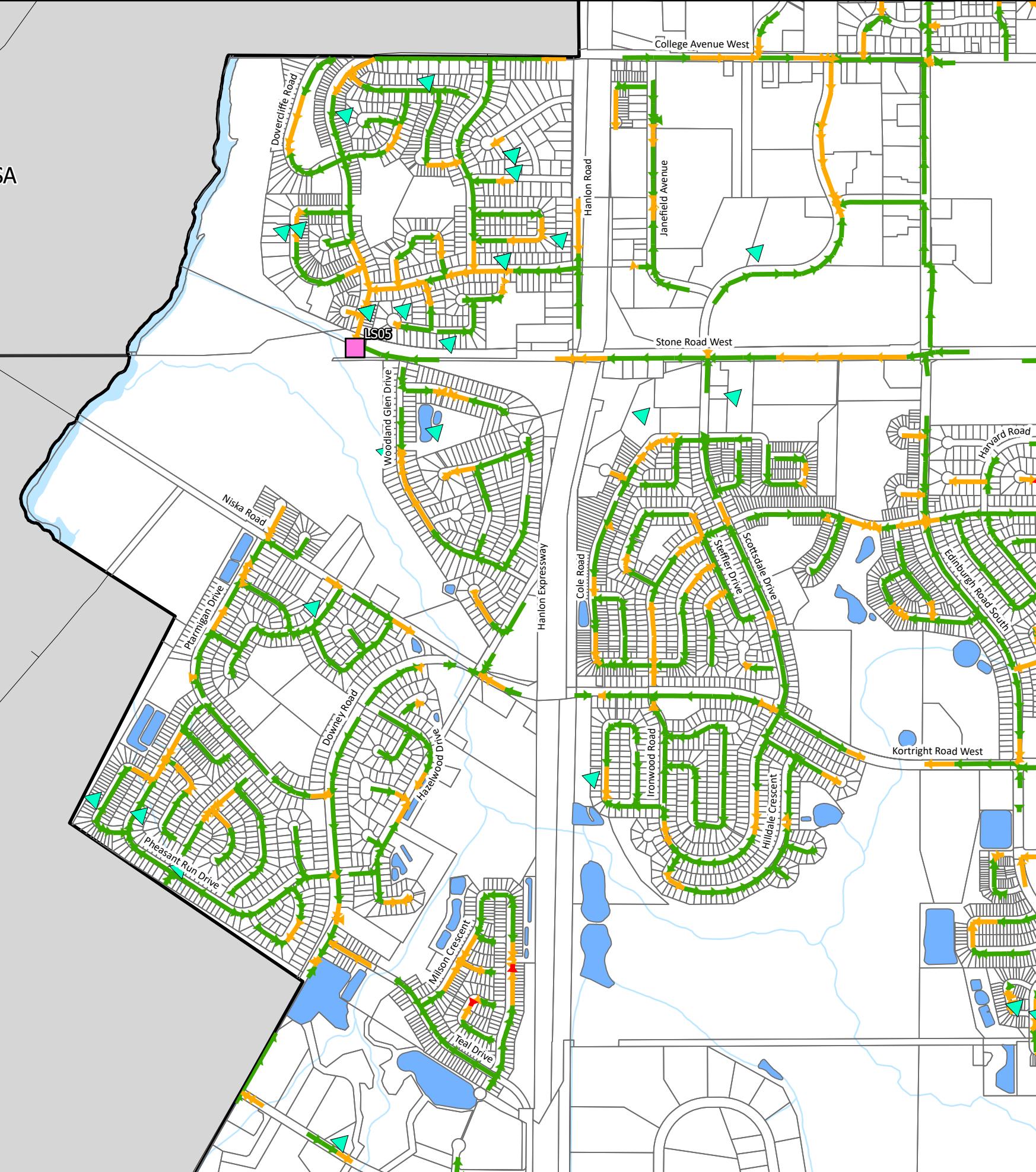
Date: 2022-09-20
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Data Source: City of Guelph, GRCA
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TOWNSHIP OF
GUELPH/ERAMOSA

TOWNSHIP OF
PUSLINCH

Document Ref: C:\Users\AB_GIS\Documents\Aquafor Beech\2020\2020 Document\Aquafor Beech\City of Guelph\ERAMOSA\Stormwater Management Plan\Project Model Results\FloodResults\Figures\8.mxd



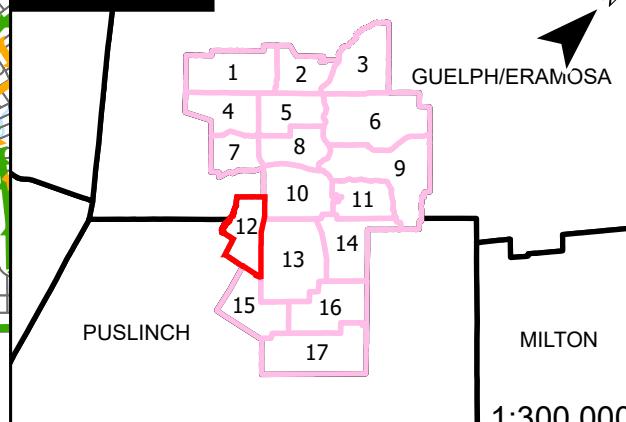
Legend

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- 0 - 0.15m

LOCATOR MAP



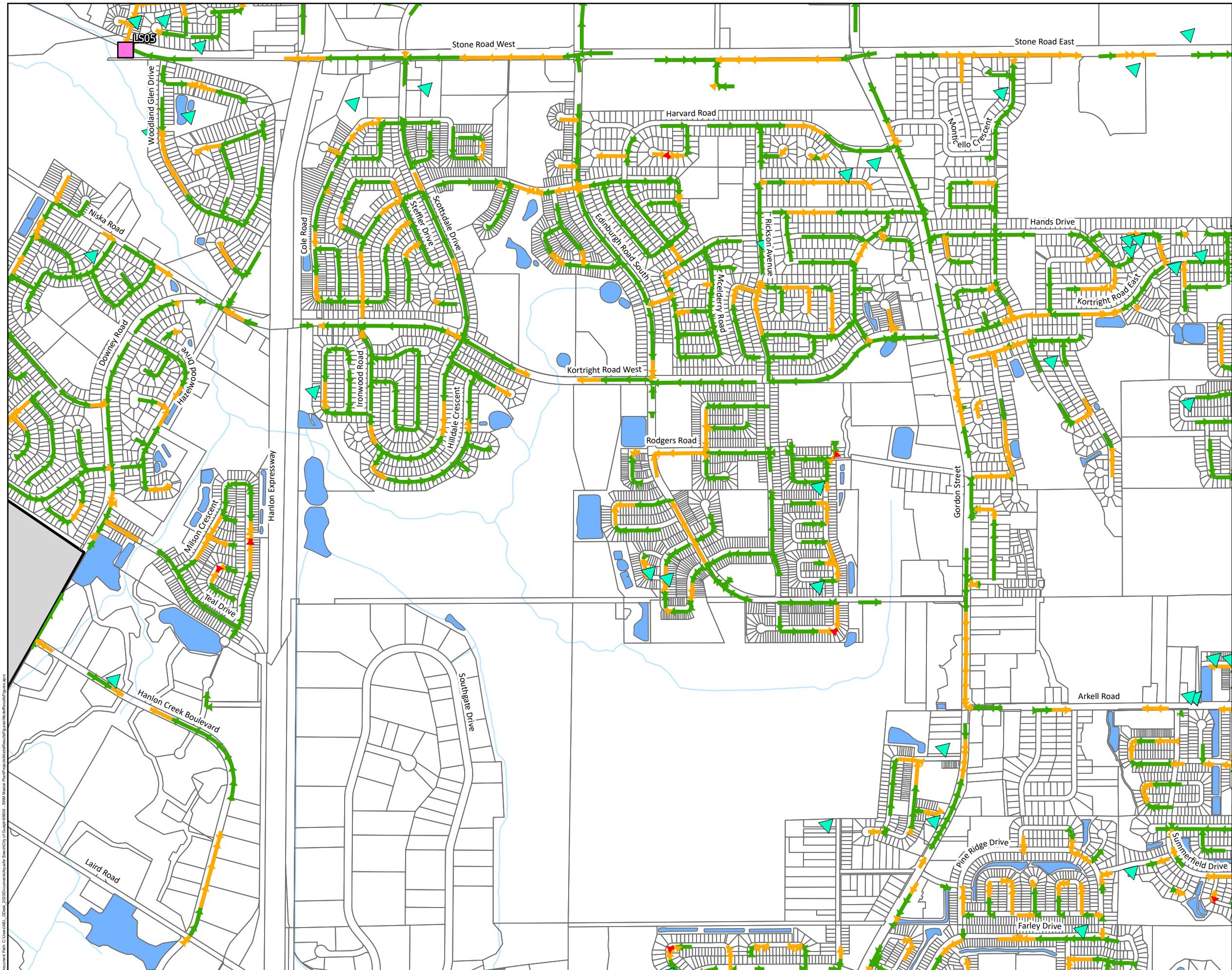
Figure

Overland 14mm Synthetic Storm
100-Year Conditions

Date: 2022-09-20
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 125 250 500
Meters





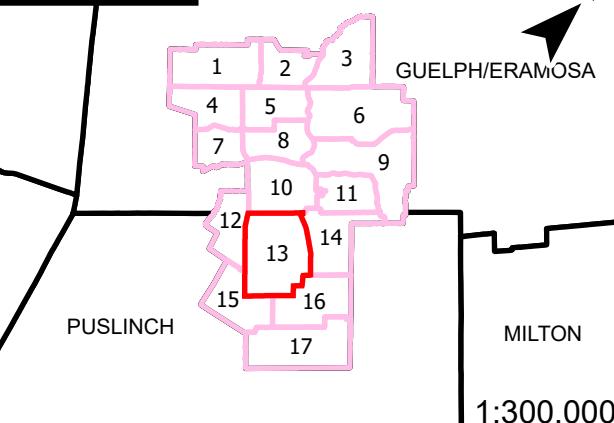
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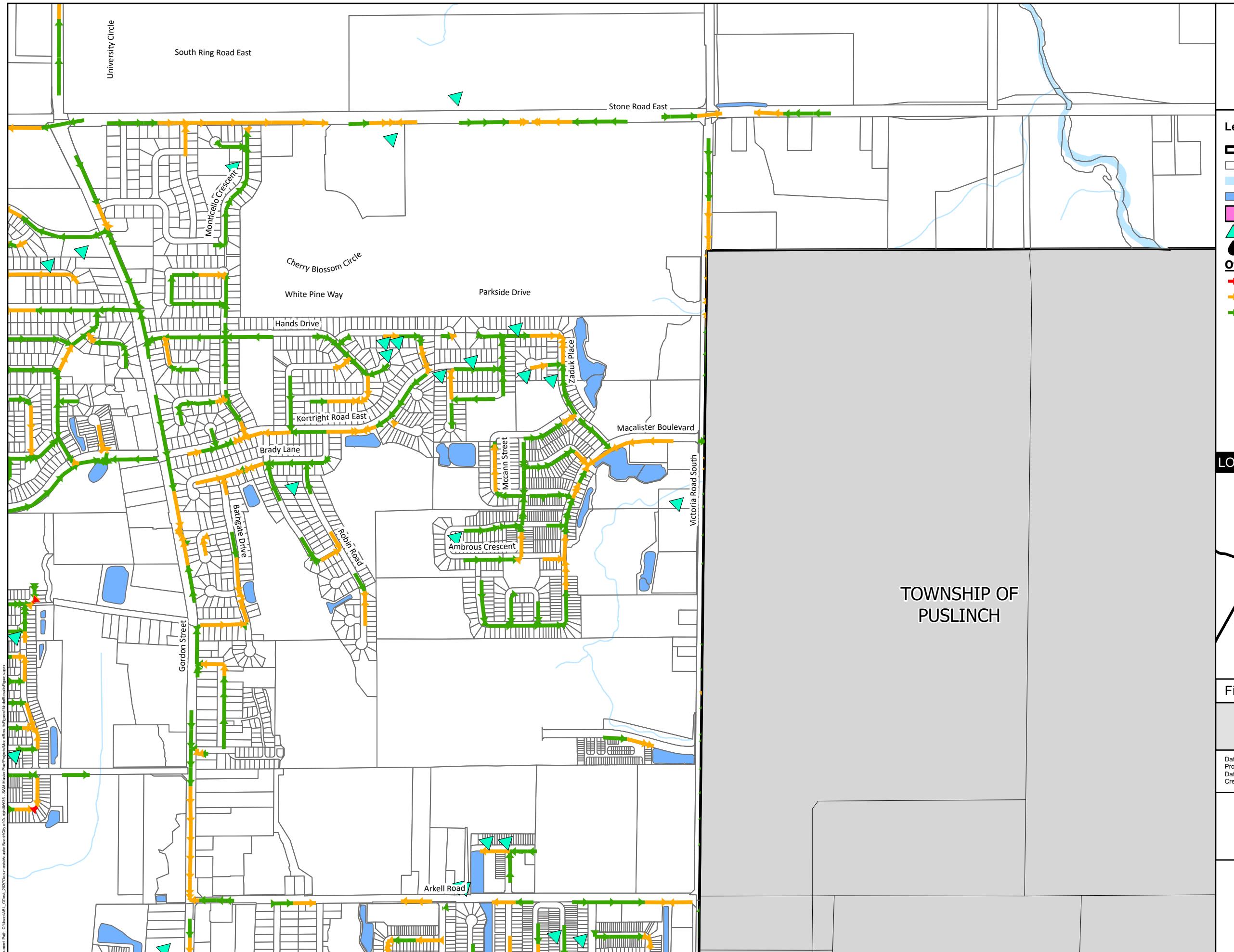
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100-Year Conditions

Date: 2022-09-20
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Data Source: City of Guelph, GRCA
Created by: A.V.

0 130 260 520
Meters





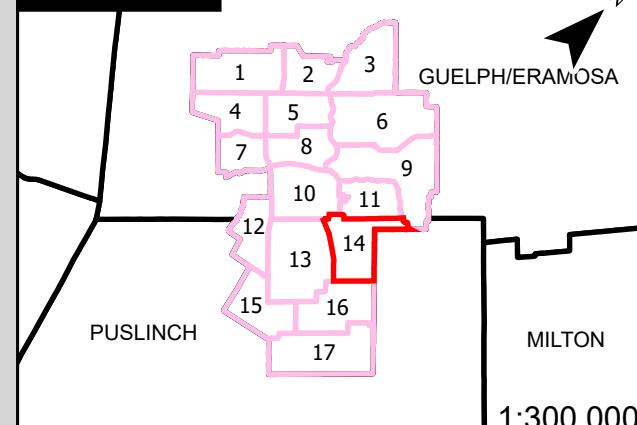
Legend

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$\geq 0.3m$

- > 0.3m
 - 0.15m - 0.3m
 - 0 - 0.15m

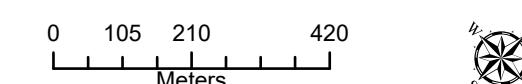
LOCATOR MAP

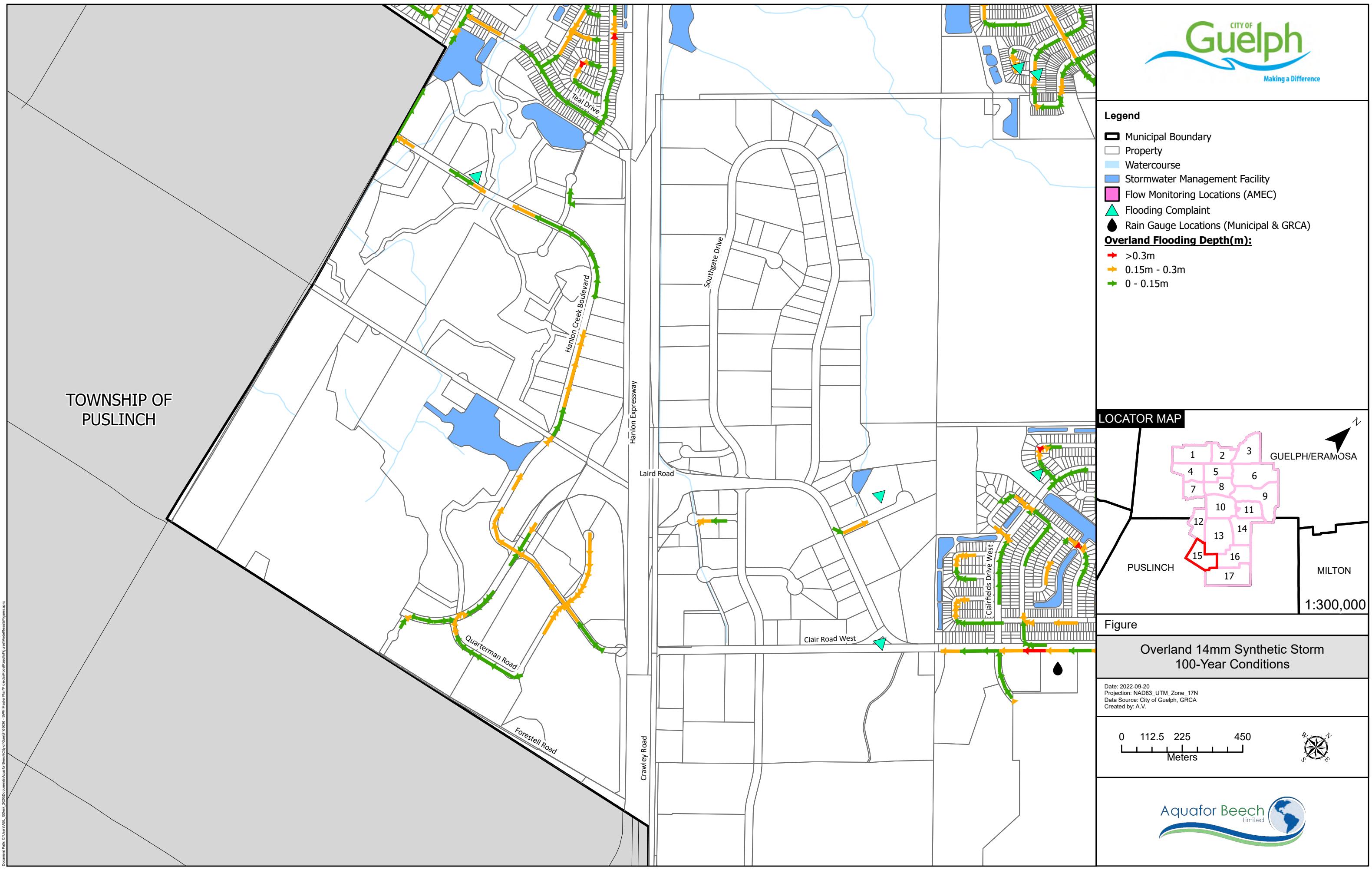


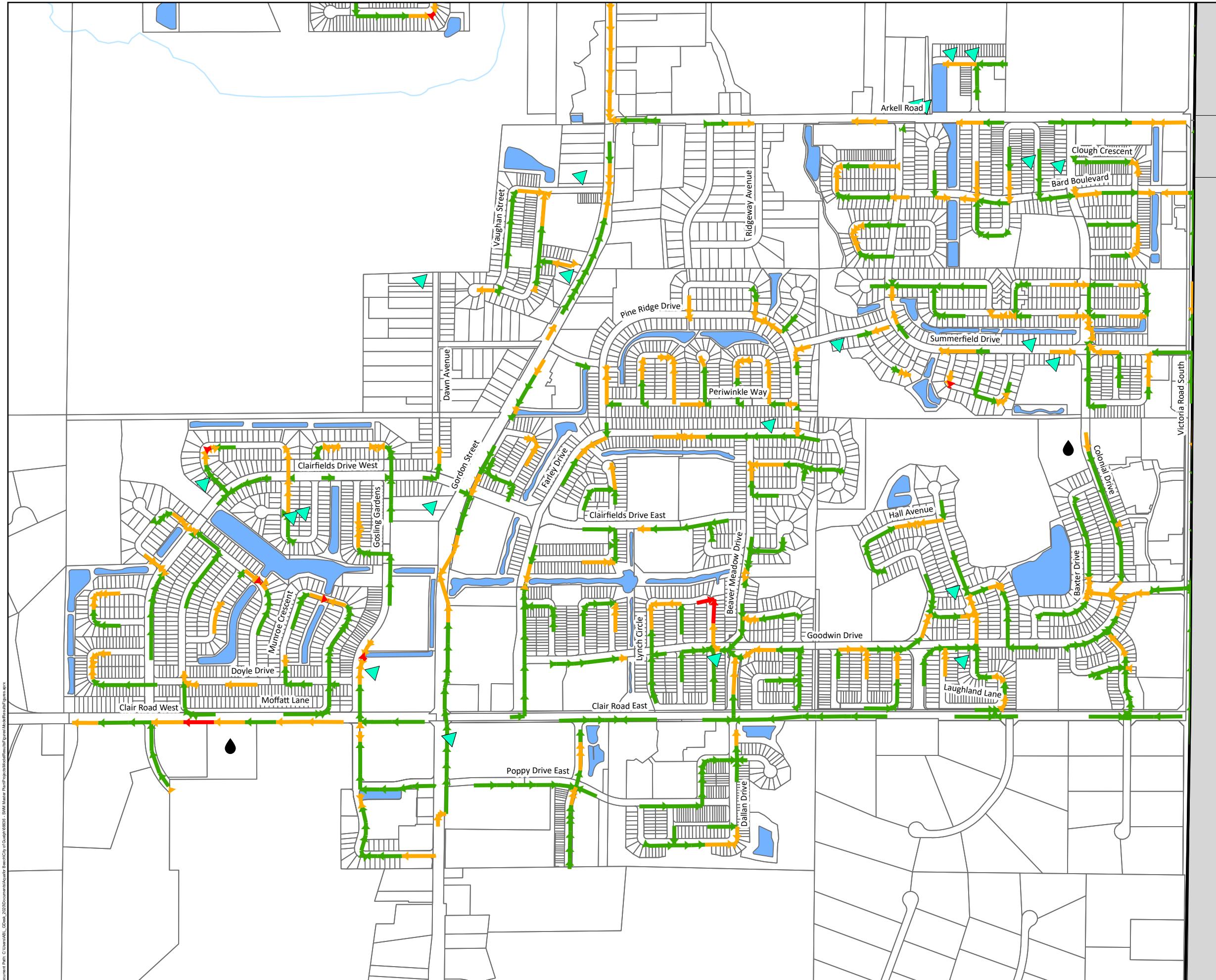
Figure

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100-Year Conditions

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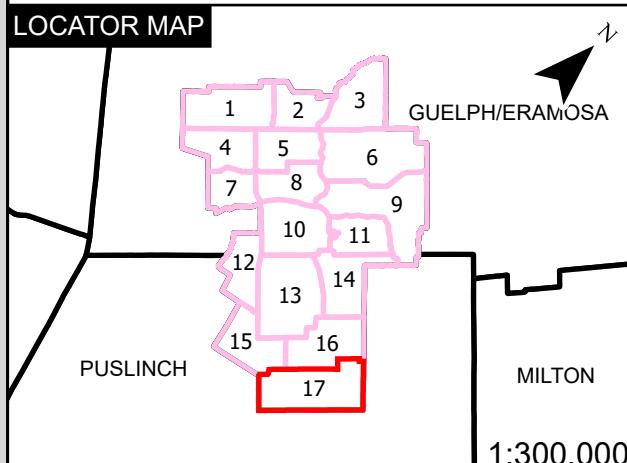
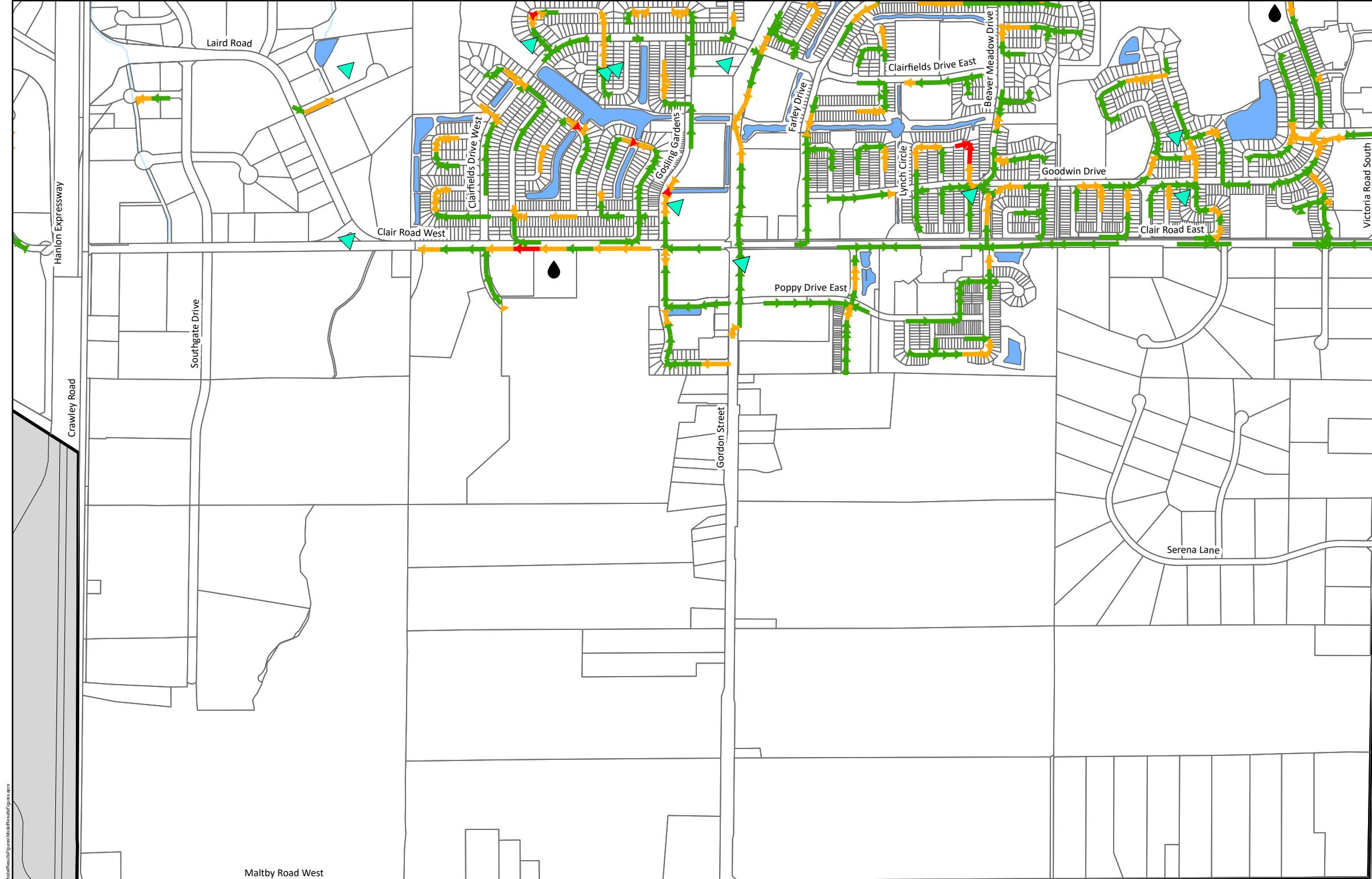


Figure
Overland 14mm Synthetic Storm
100-Year Conditions

Date: 2022-09-20
Projection: NAD83_UTM_Zone_17N
Data Source: City of Guelph, GRCA
Created by: A.V.

0 125 250 500
Meters



TOWNSHIP OF
PUSLINCH