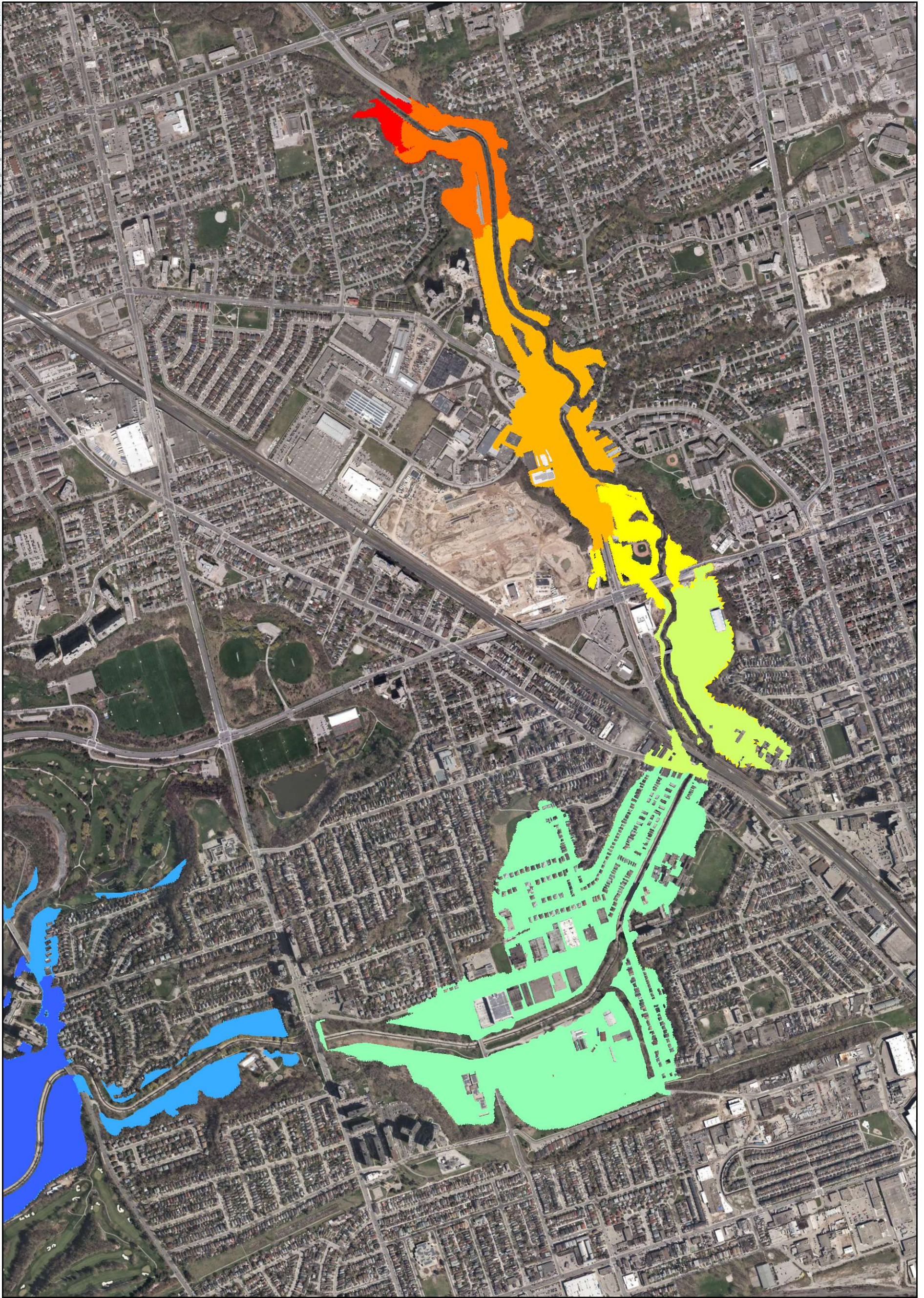


Appendix G
Hydraulic Model Results

Appendix G - Section B
Flood Maps for Existing Conditions



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Prepared by Yi Wang on 2019-10-17

Client/Project

Rockcliffe SPA 2D Model and Floodplain Mapping Update
Toronto Region Conservation Authority

Figure No.











B-1

Title

**REGIONAL UNSTEADY STORM
MAXIMUM WATER SURFACE LEVEL
EXISTING CONDITIONS**

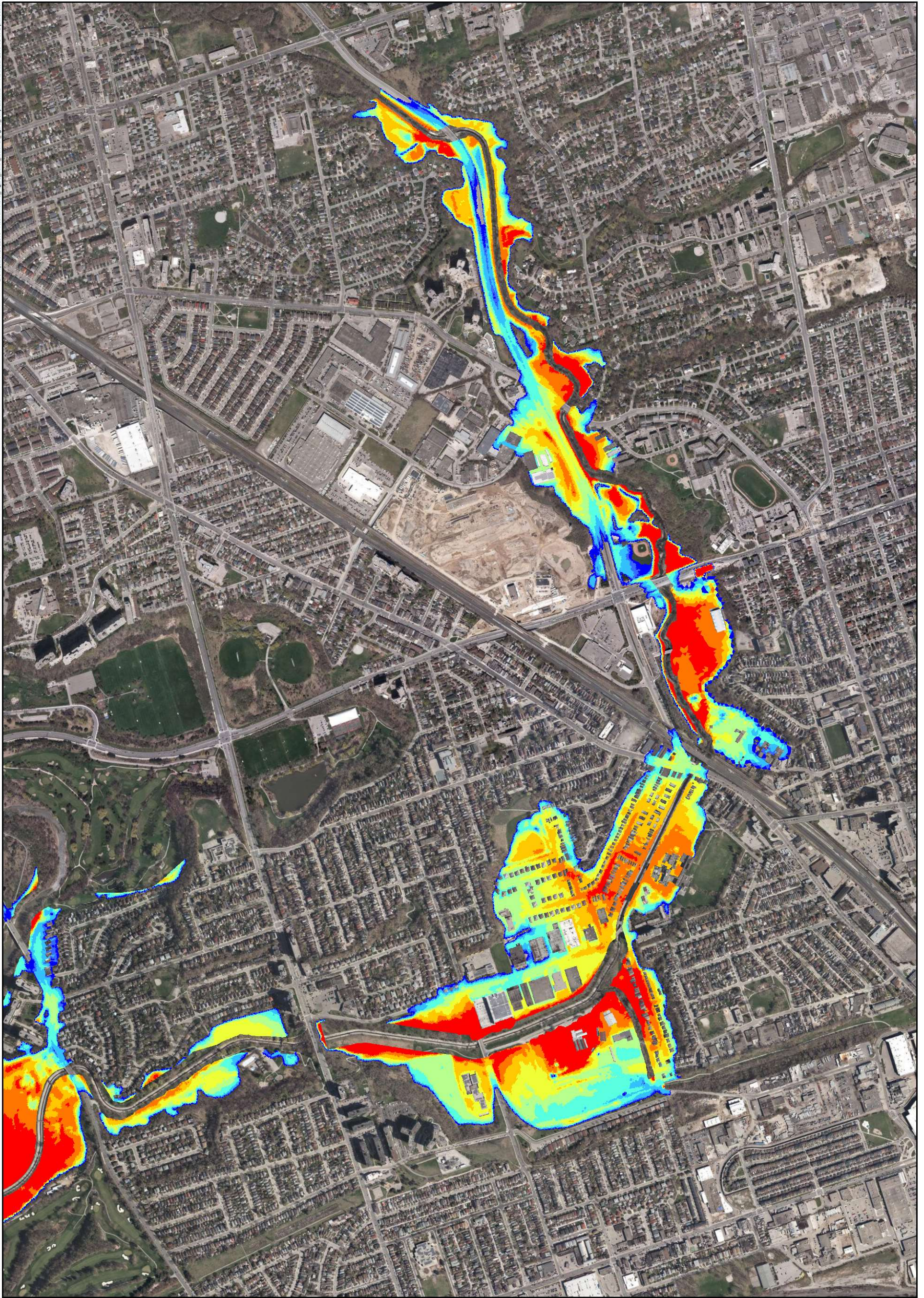


Max WSL [m]

	< 97.5		107.5 - 110.0
	97.5 - 100.0		110 - 112.5
	100 - 102.5		112.5 - 115.0
	102.5 - 105.0		115 - 117.5
	105 - 107.5		117.5 - 120.0

Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS,
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Max Depth [m]	
	< 0.1
	0.1 - 0.2
	0.2 - 0.5
	0.5 - 1.0
	1.0 - 1.5
	1.5 - 2.0
	2.0 - 2.5
	2.5 - 3.0
	> 3.0

Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
 2. Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS,
 Disclaimer: DHI assumes no responsibility for data supplied in electronic format. The recipient accepts full responsibility for verifying the accuracy and completeness of the data. The recipient releases DHI, its officers, employees, consultants and agents, from any and all claims arising in any way from the content or provision of the data.

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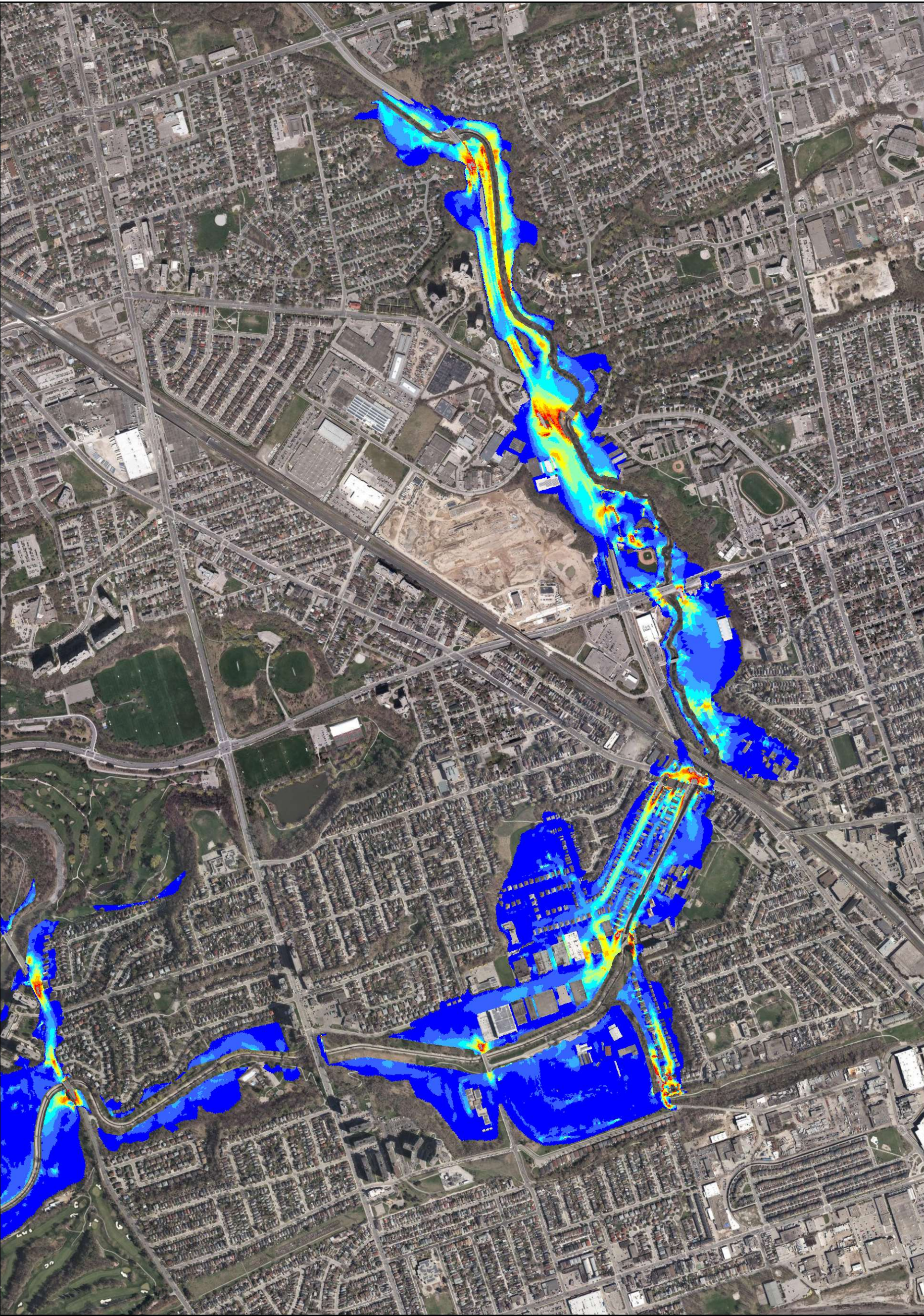
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 Toronto Region Conservation Authority

Figure No.

B-2

Title
**REGIONAL UNSTEADY STORM
 MAXIMUM FLOOD DEPTH
 EXISTING CONDITIONS**



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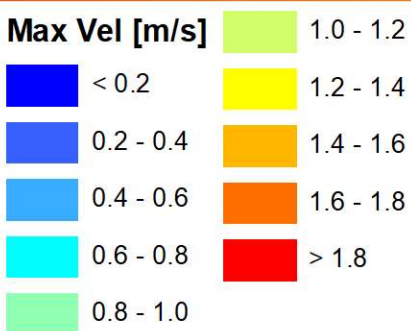
Client/Project

Rockcliffe SPA 2D Model and Floodplain Mapping Update
Toronto Region Conservation Authority

Figure No.

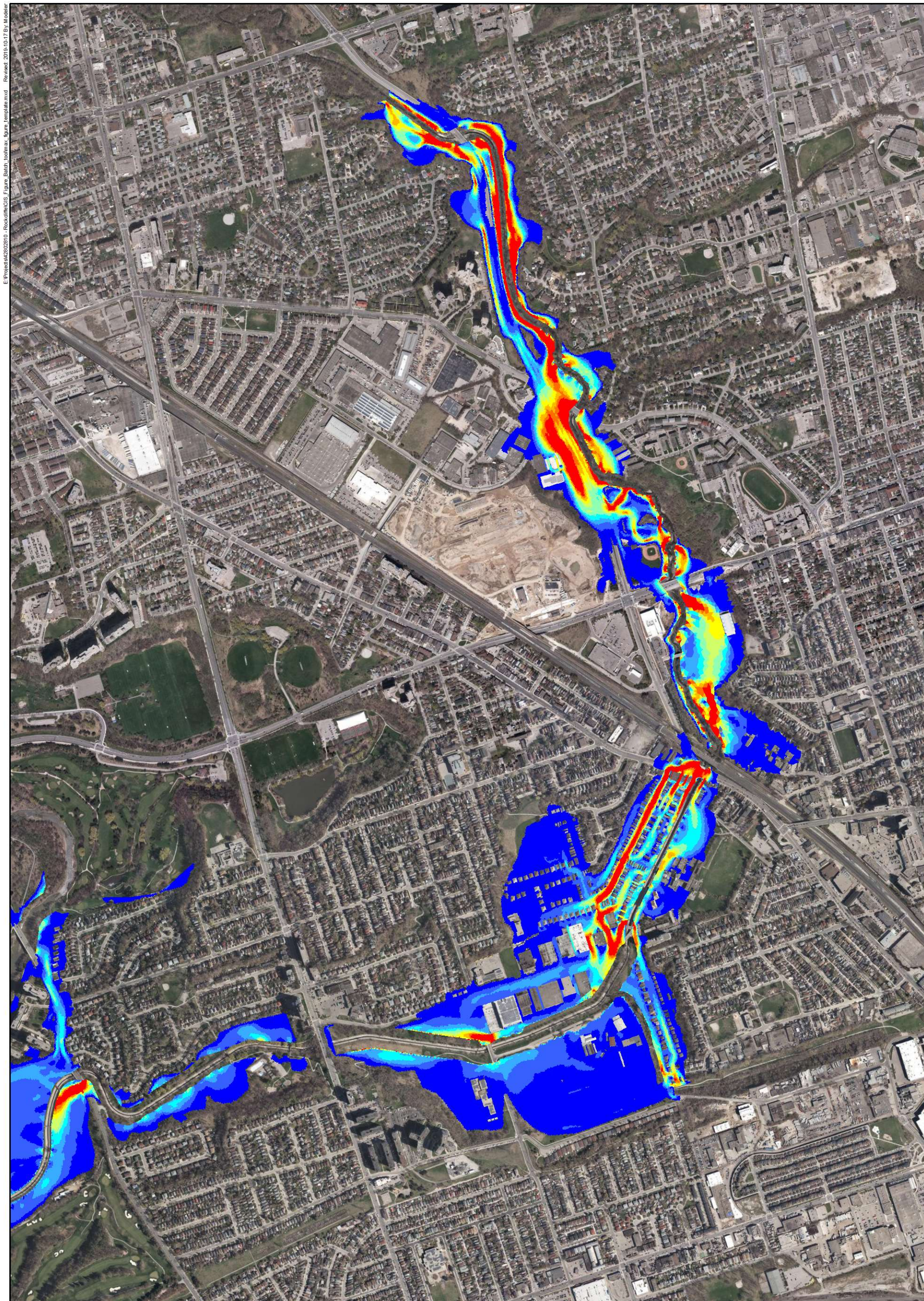
B-3

Title
**REGIONAL UNSTEADY STORM
MAXIMUM VELOCITY
EXISTING CONDITIONS**

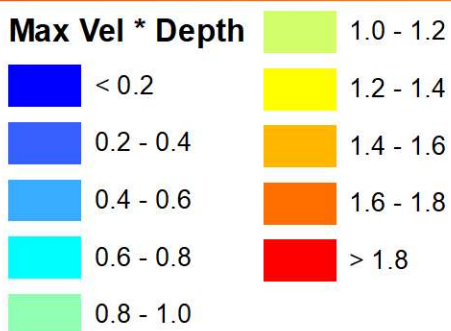


Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
 2. Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS,
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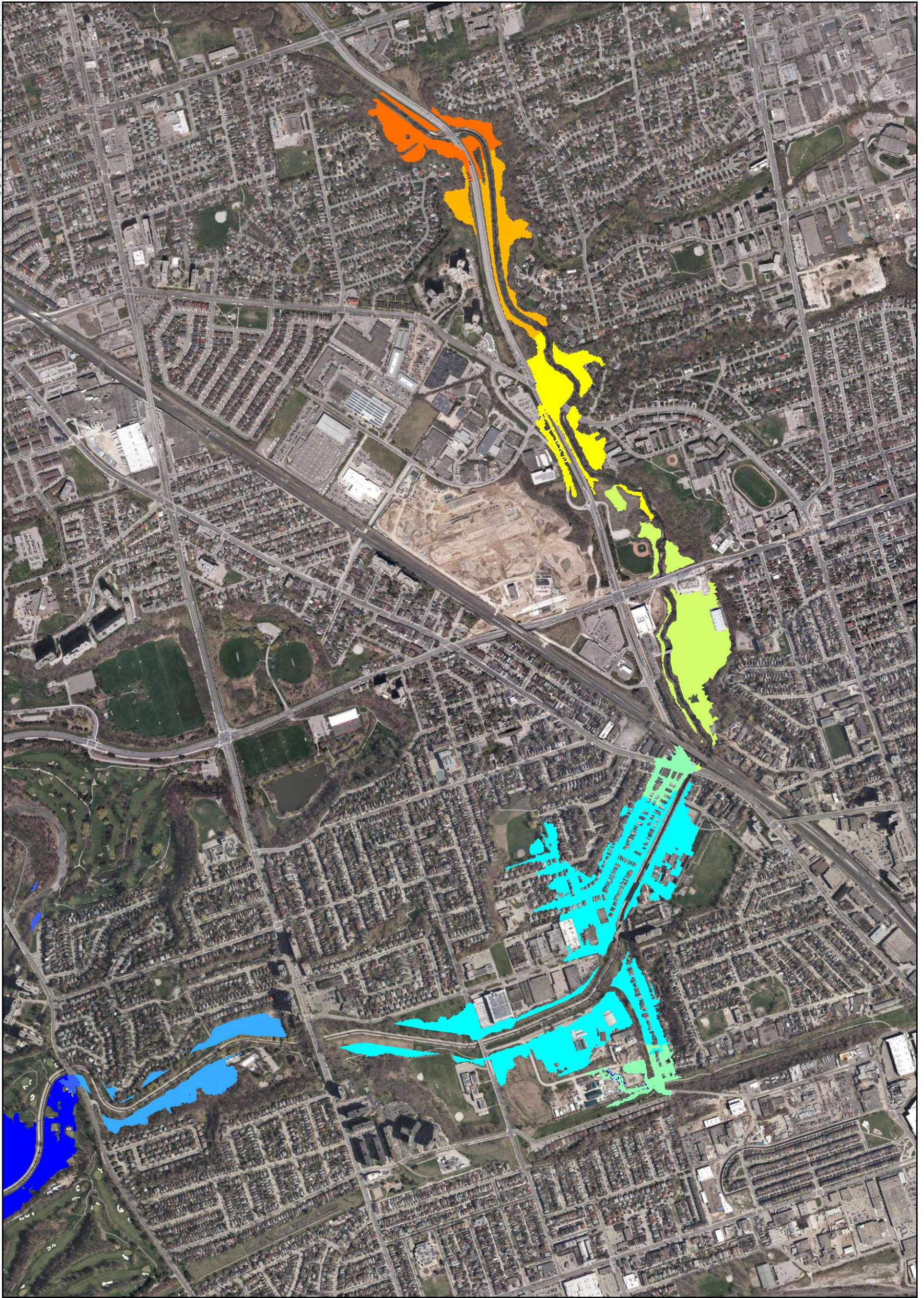


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Notes
 1. Coordinate System: NAD 1983 UTM Zone 17N
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 Toronto Region Conservation Authority
 Figure No.
B-4
 Title
**REGIONAL UNSTEADY STORM
 MAXIMUM VELOCITY AND DEPTH
 PRODUCT
 EXISTING CONDITIONS**



Max WSL [m]	
	< 97.5
	97.5 - 100.0
	100 - 102.5
	102.5 - 105.0
	105 - 107.5
	107.5 - 110.0
	110 - 112.5
	112.5 - 115.0
	115 - 117.5
	117.5 - 120.0

Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
 2. Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS,
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Rockcliffe SPA 2D Model and Floodplain Mapping Update
Toronto Region Conservation Authority

Figure No.

B-5

Title

**DESIGN 350-YEAR STORM
MAXIMUM WATER SURFACE LEVEL
EXISTING CONDITIONS**



Max Depth [m]	
	< 0.1
	0.1 - 0.2
	0.2 - 0.5
	0.5 - 1.0
	1.0 - 1.5
	1.5 - 2.0
	2.0 - 2.5
	2.5 - 3.0
	> 3.0

Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
 2. Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS,
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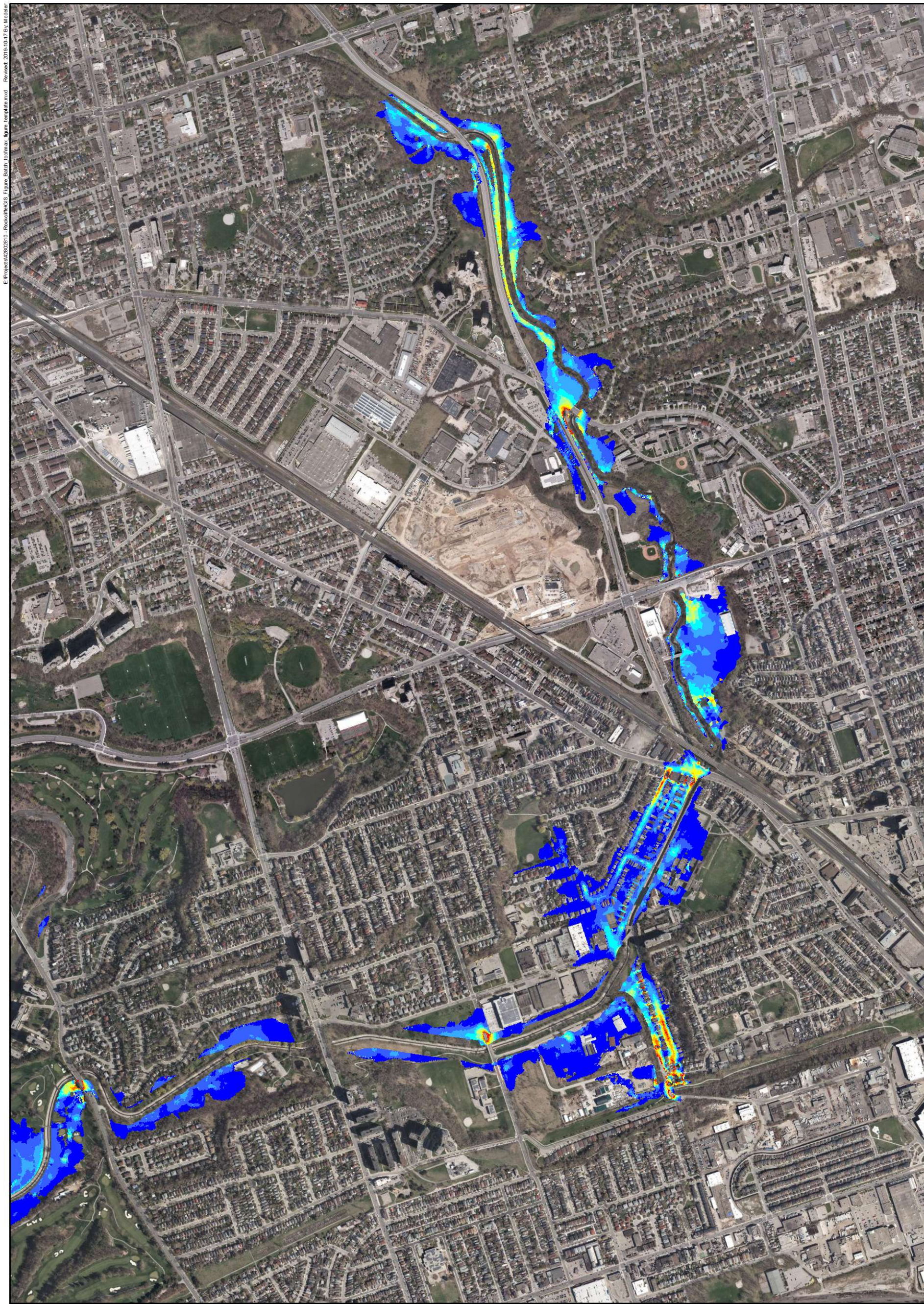
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Rockcliffe SPA 2D Model and Floodplain Mapping Update
 Toronto Region Conservation Authority

Figure No.

B-6

Title
**DESIGN 350-YEAR STORM
 MAXIMUM FLOOD DEPTH
 EXISTING CONDITIONS**



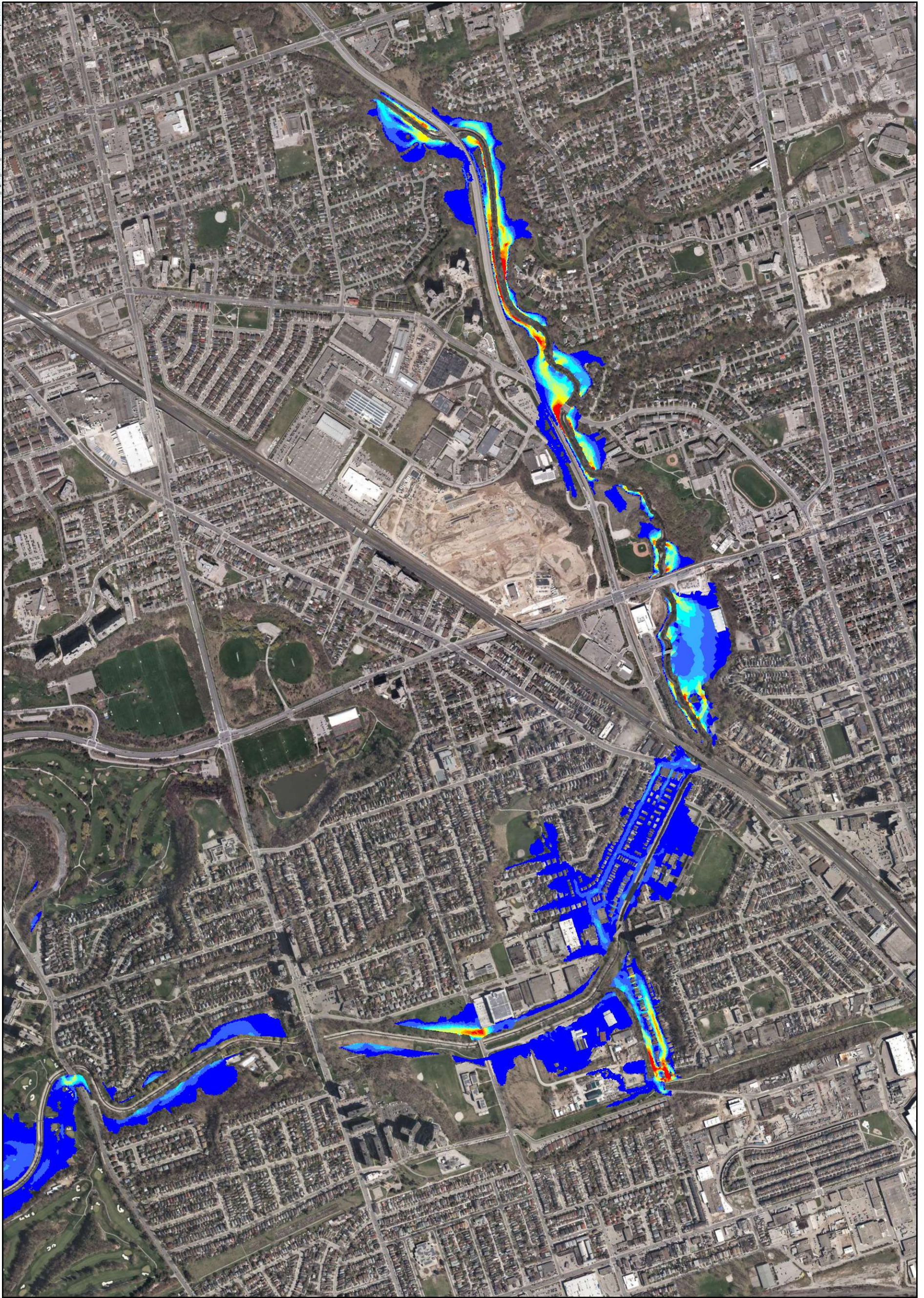
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Max Vel [m/s]	Color	Value Range
<math>< 0.2</math>	Dark Blue	<math>< 0.2</math>
0.2 - 0.4	Blue	0.2 - 0.4
0.4 - 0.6	Light Blue	0.4 - 0.6
0.6 - 0.8	Cyan	0.6 - 0.8
0.8 - 1.0	Light Green	0.8 - 1.0
1.0 - 1.2	Yellow-Green	1.0 - 1.2
1.2 - 1.4	Yellow	1.2 - 1.4
1.4 - 1.6	Orange	1.4 - 1.6
1.6 - 1.8	Red-Orange	1.6 - 1.8
> 1.8	Red	> 1.8

Notes
 1. Coordinate System: NAD 1983 UTM Zone 17N
 2. Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS,
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 Rockcliffe SPA 2D Model and Floodplain Mapping Update
 Toronto Region Conservation Authority
 Figure No.
B-7
 Title
**DESIGN 350-YEAR STORM
 MAXIMUM VELOCITY
 EXISTING CONDITIONS**



Max Vel * Depth	
	< 0.2
	0.2 - 0.4
	0.4 - 0.6
	0.6 - 0.8
	0.8 - 1.0
	1.0 - 1.2
	1.2 - 1.4
	1.4 - 1.6
	1.6 - 1.8
	> 1.8

Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
 2. Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS,
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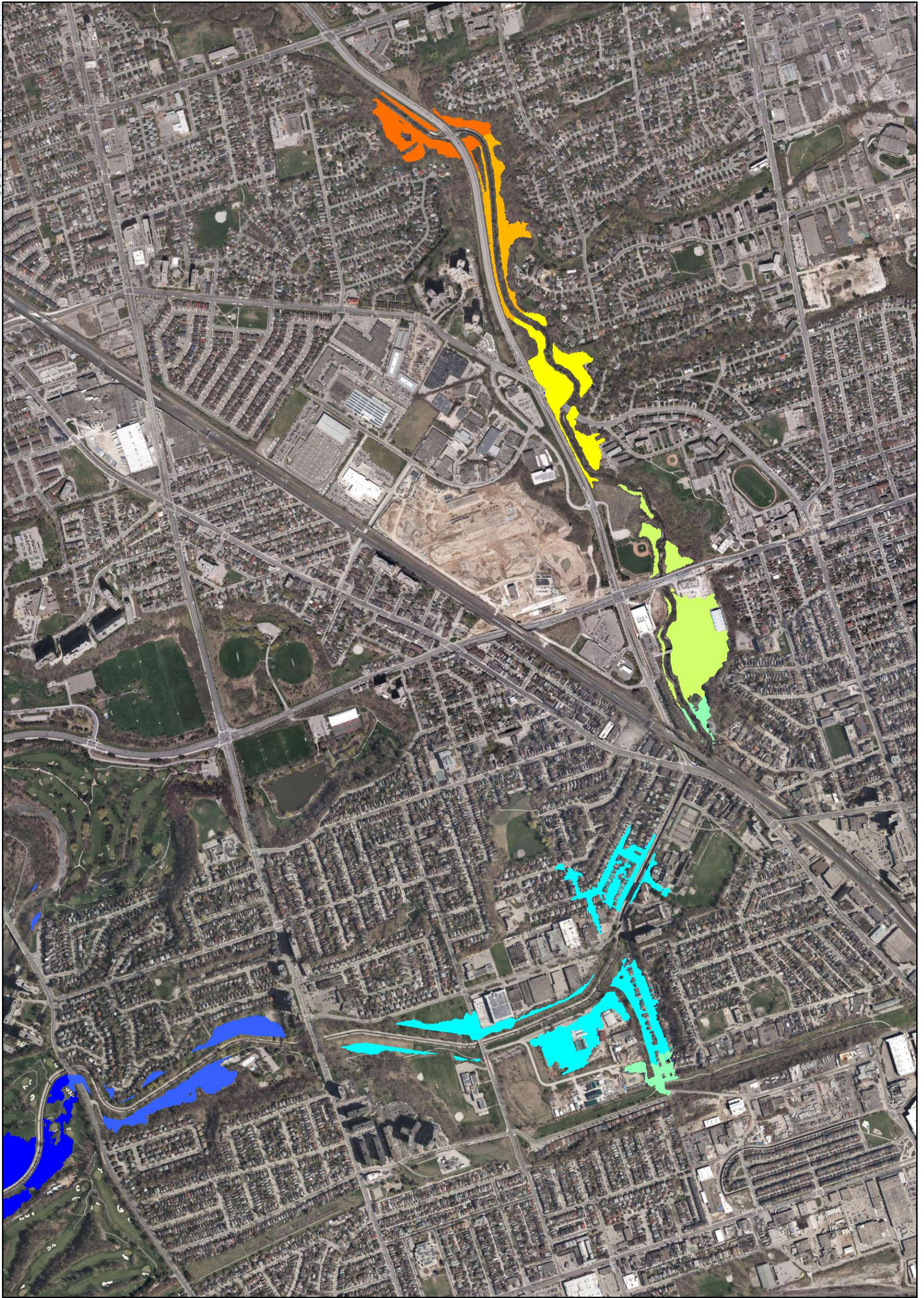
Rockcliffe SPA 2D Model and Floodplain Mapping Update
Toronto Region Conservation Authority

Figure No.

B-8

Title

**DESIGN 350-YEAR STORM
MAXIMUM VELOCITY AND DEPTH
PRODUCT
EXISTING CONDITIONS**



Max WSL [m]	
	< 97.5
	97.5 - 100.0
	100 - 102.5
	102.5 - 105.0
	105 - 107.5
	107.5 - 110.0
	110 - 112.5
	112.5 - 115.0
	115 - 117.5
	117.5 - 120.0

Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
 2. Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS,
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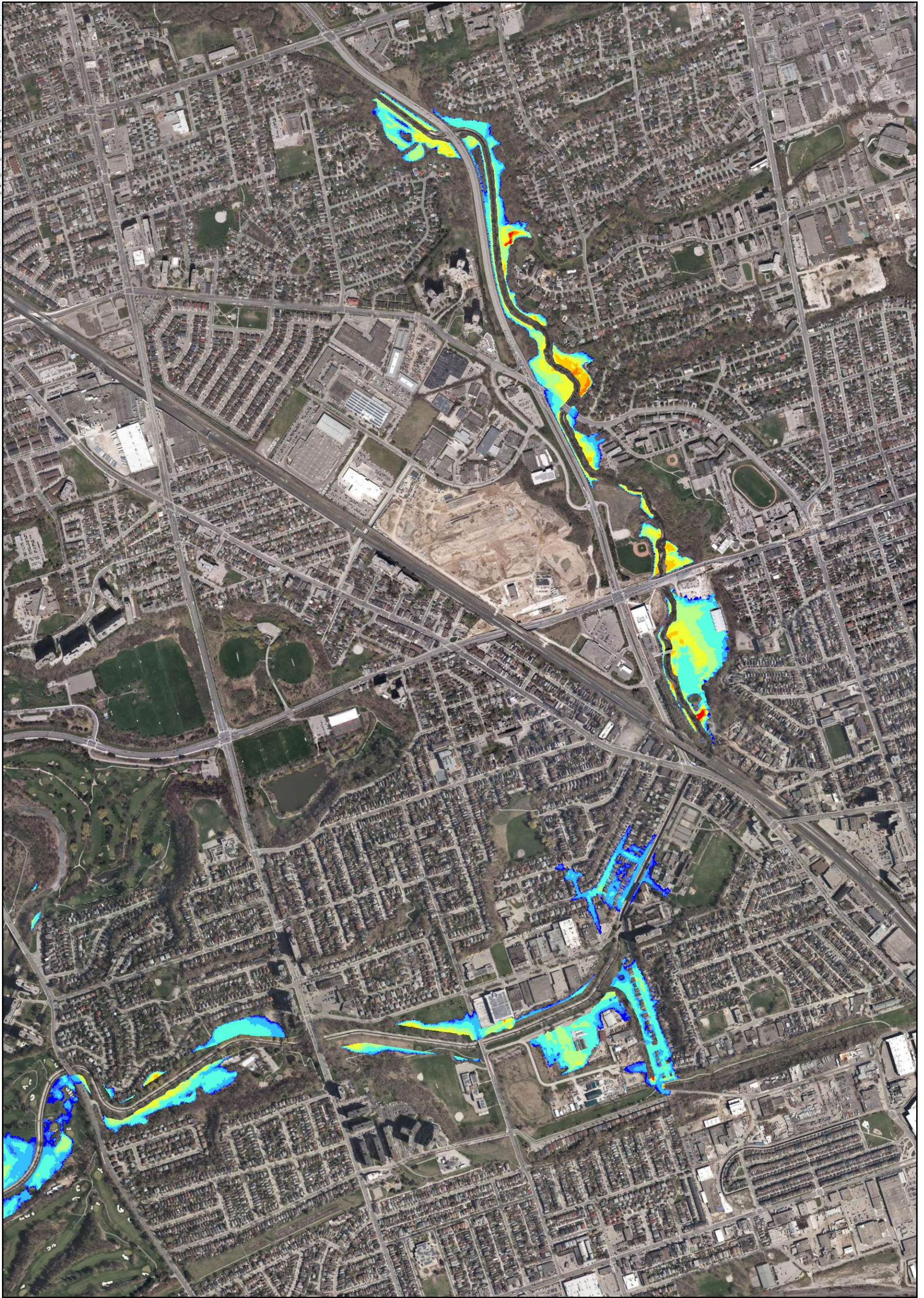
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 Toronto Region Conservation Authority

Figure No.

B-9

Title

**DESIGN 100-YEAR STORM
 MAXIMUM WATER SURFACE LEVEL
 EXISTING CONDITIONS**



Max Depth [m]	
	< 0.1
	0.1 - 0.2
	0.2 - 0.5
	0.5 - 1.0
	1.0 - 1.5
	1.5 - 2.0
	2.0 - 2.5
	2.5 - 3.0
	> 3.0

Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
 2. Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS,
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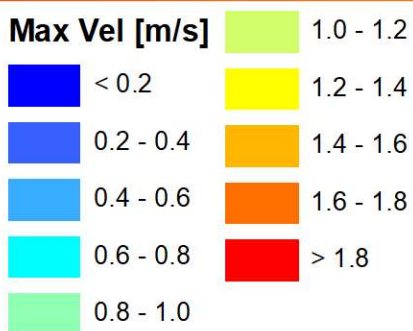
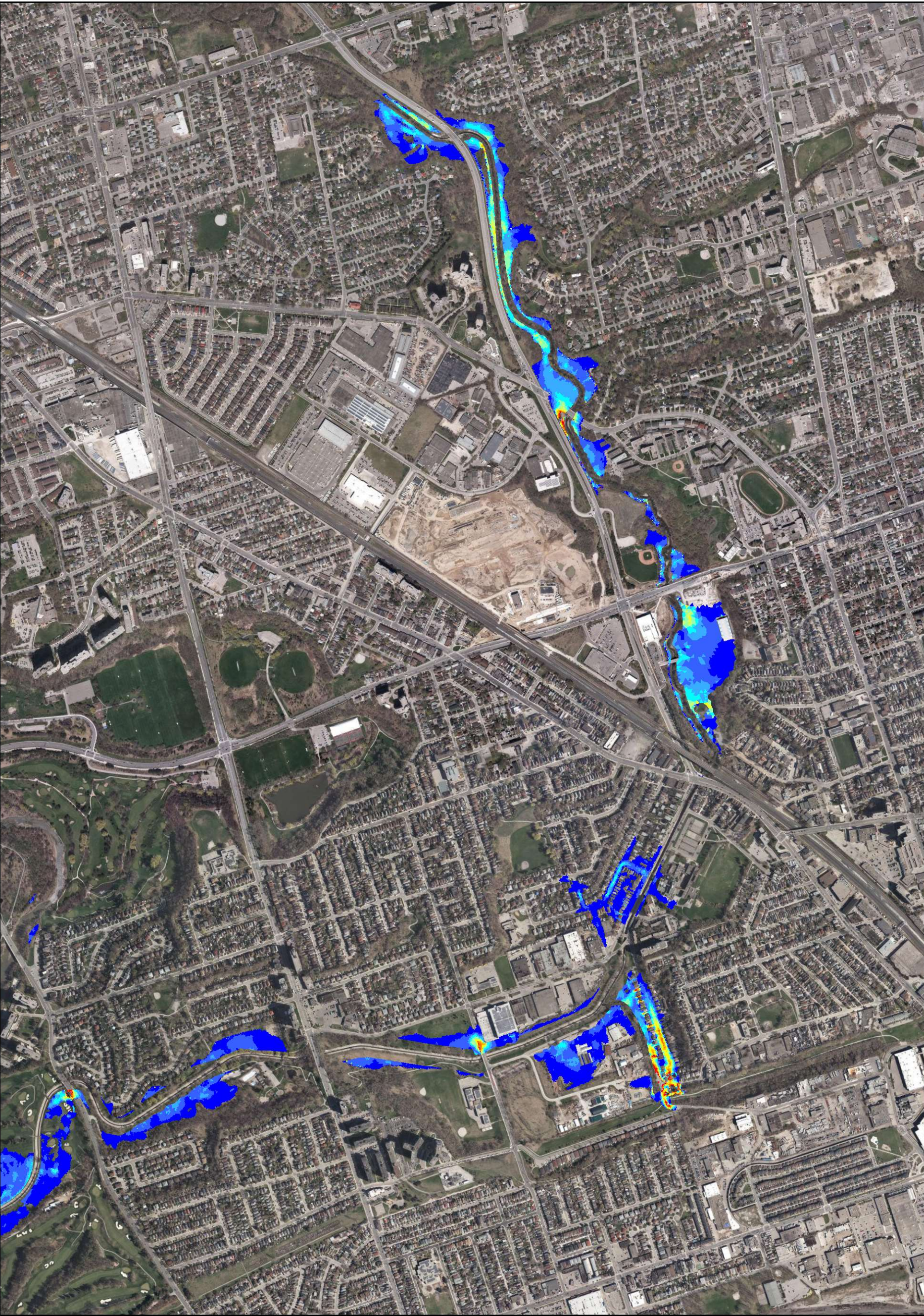
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Rockcliffe SPA 2D Model and Floodplain Mapping Update
 Toronto Region Conservation Authority

Figure No.
B-10

Title
**DESIGN 100-YEAR STORM
 MAXIMUM FLOOD DEPTH
 EXISTING CONDITIONS**



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
 2. Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS,
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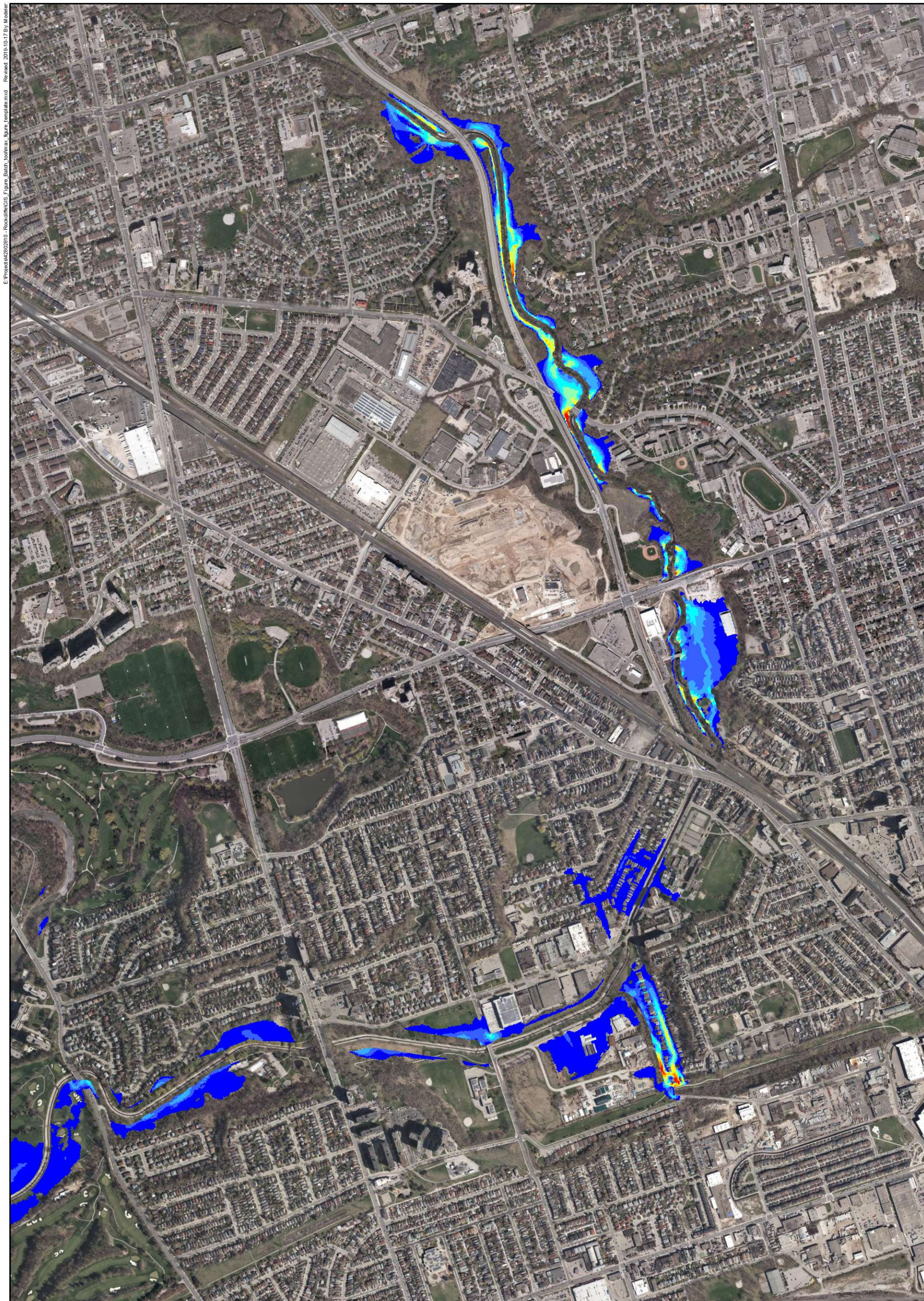
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Rockcliffe SPA 2D Model and Floodplain Mapping Update
Toronto Region Conservation Authority

Figure No
B-11

Title
**DESIGN 100-YEAR STORM
MAXIMUM VELOCITY
EXISTING CONDITIONS**



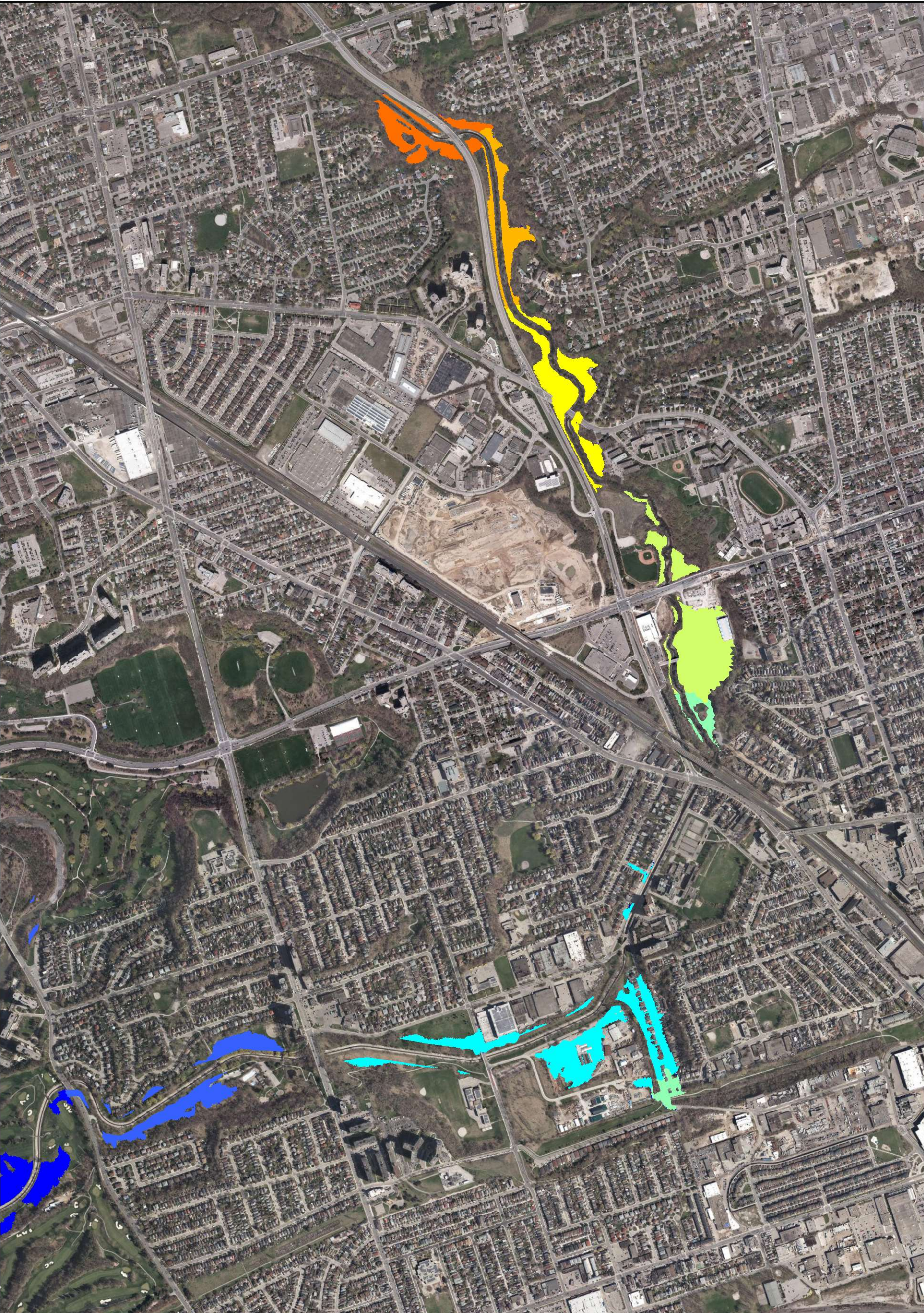
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Max Vel * Depth	
■	< 0.2
■	0.2 - 0.4
■	0.4 - 0.6
■	0.6 - 0.8
■	0.8 - 1.0
■	1.0 - 1.2
■	1.2 - 1.4
■	1.4 - 1.6
■	1.6 - 1.8
■	> 1.8

Notes
 1. Coordinate System: NAD 1983 UTM Zone 17N
 2. Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS,
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 Rockcliffe SPA 2D Model and Floodplain Mapping Update
 Toronto Region Conservation Authority
 Figure No.
B-12
 Title
**DESIGN 100-YEAR STORM
 MAXIMUM VELOCITY AND DEPTH
 PRODUCT
 EXISTING CONDITIONS**



Max WSL [m]	
	< 97.5
	97.5 - 100.0
	100 - 102.5
	102.5 - 105.0
	105 - 107.5
	107.5 - 110.0
	110 - 112.5
	112.5 - 115.0
	115 - 117.5
	117.5 - 120.0

Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
 2. Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS,
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Rockcliffe SPA 2D Model and Floodplain Mapping Update
Toronto Region Conservation Authority

Figure No.
B-13

Title
**DESIGN 50-YEAR STORM
MAXIMUM WATER SURFACE LEVEL
EXISTING CONDITIONS**



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

Rockcliffe SPA 2D Model and Floodplain Mapping Update
Toronto Region Conservation Authority

Figure No.
B-14

Title
**DESIGN 50-YEAR STORM
MAXIMUM FLOOD DEPTH
EXISTING CONDITIONS**



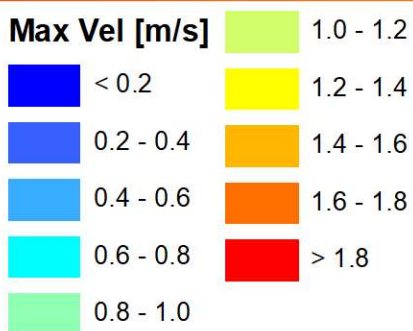
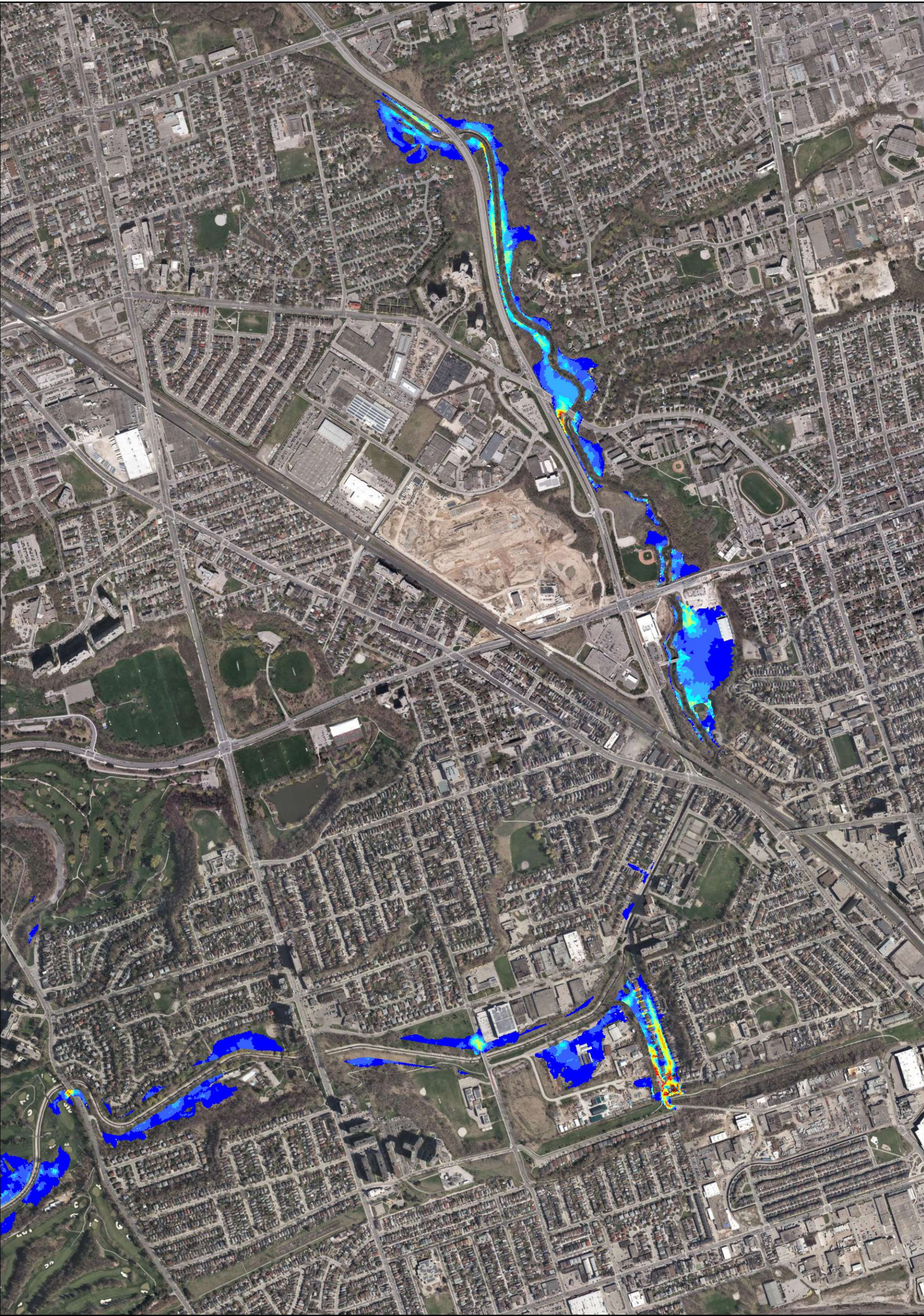
Max Depth [m]

	< 0.1		1.0 - 1.5
	0.1 - 0.2		1.5 - 2.0
	0.2 - 0.5		2.0 - 2.5
	0.5 - 1.0		2.5 - 3.0
			> 3.0

Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS,

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Notes

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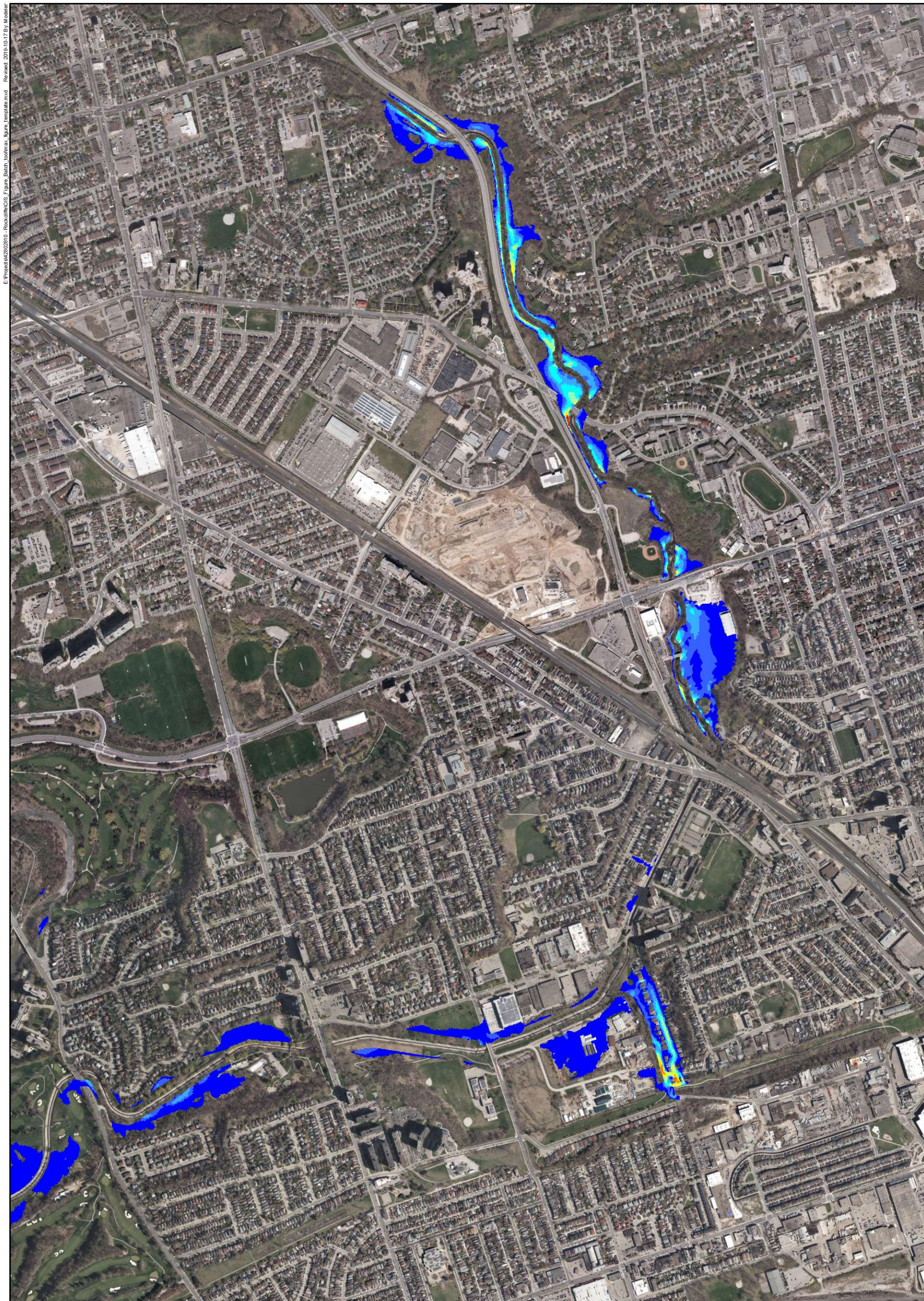
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Rockcliffe SPA 2D Model and Floodplain Mapping Update
Toronto Region Conservation Authority

Figure No.
B-15

Title
**DESIGN 50-YEAR STORM
MAXIMUM VELOCITY
EXISTING CONDITIONS**



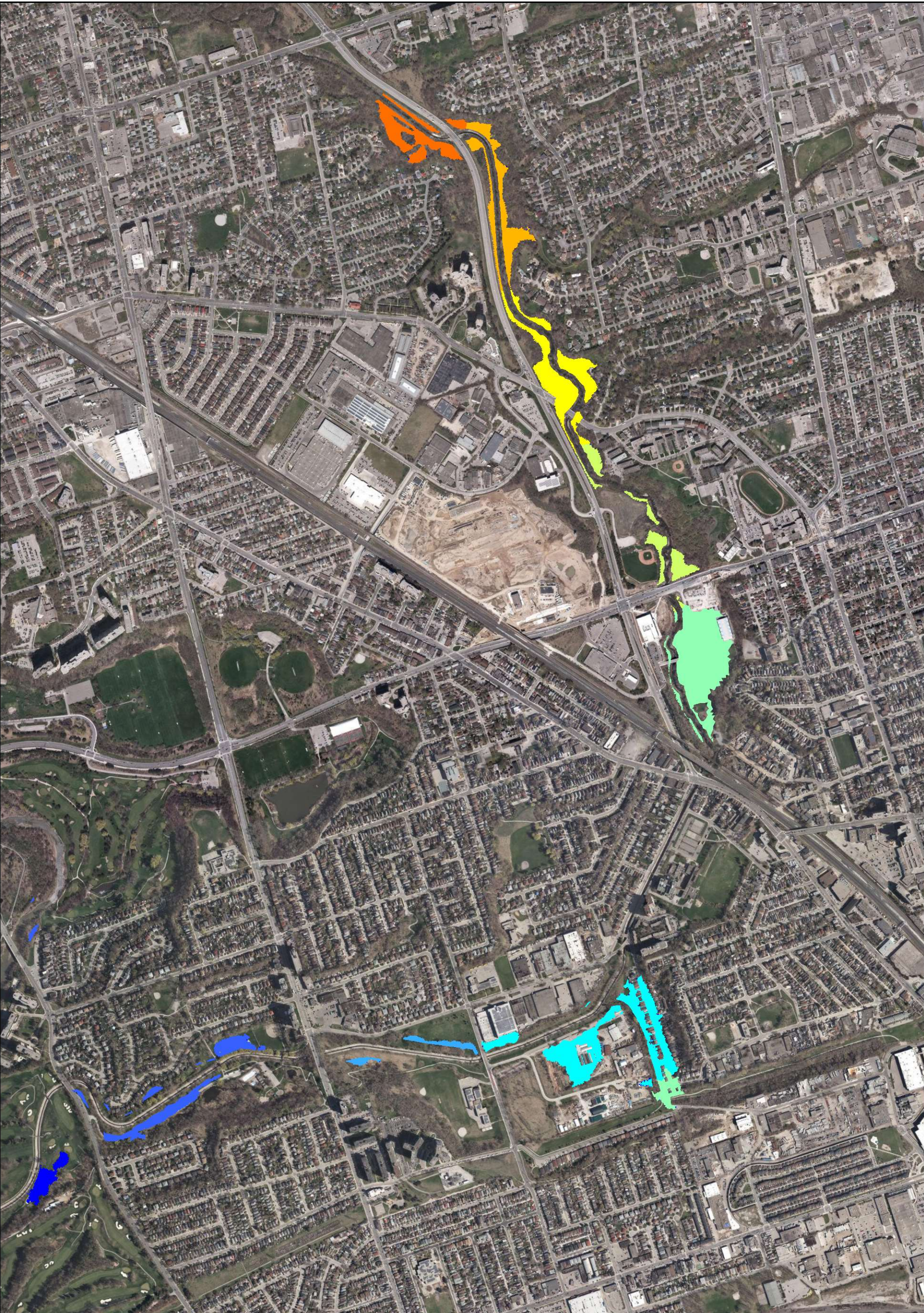
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








Max Vel * Depth	
■	< 0.2
■	0.2 - 0.4
■	0.4 - 0.6
■	0.6 - 0.8
■	0.8 - 1.0
■	1.0 - 1.2
■	1.2 - 1.4
■	1.4 - 1.6
■	1.6 - 1.8
■	> 1.8

Notes
 1. Coordinate System: NAD 1983 UTM Zone 17N
 2. Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS,
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 Rockcliffe SPA 2D Model and Floodplain Mapping Update
 Toronto Region Conservation Authority
 Figure No
B-16
 Title
**DESIGN 50-YEAR STORM
 MAXIMUM VELOCITY AND DEPTH
 PRODUCT
 EXISTING CONDITIONS**



Max WSL [m]

	< 97.5		107.5 - 110.0
	97.5 - 100.0		110 - 112.5
	100 - 102.5		112.5 - 115.0
	102.5 - 105.0		115 - 117.5
	105 - 107.5		117.5 - 120.0

Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
 2. Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS,
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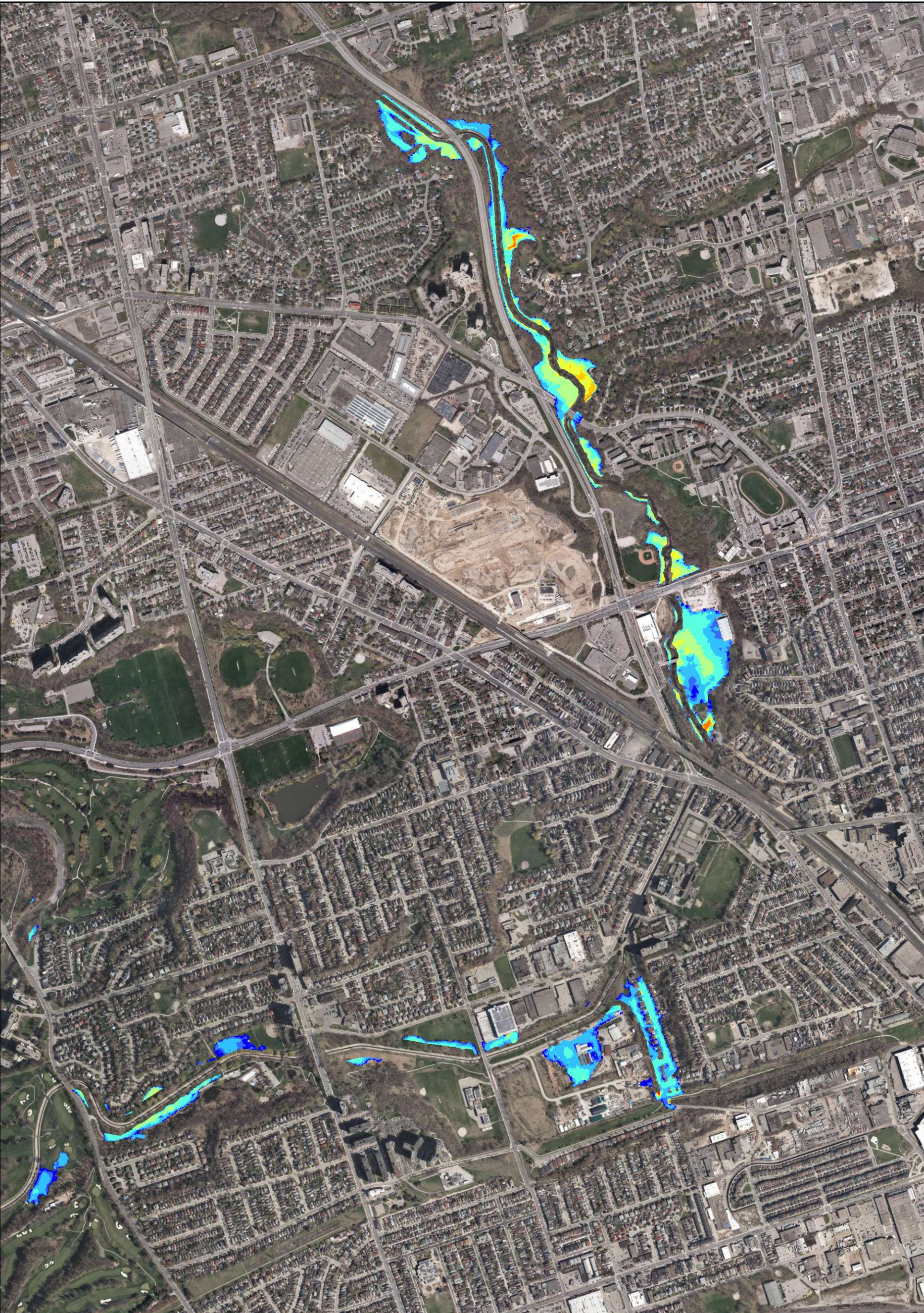
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Rockcliffe SPA 2D Model and Floodplain Mapping Update
 Toronto Region Conservation Authority

Figure No.
B-17

Title
**DESIGN 25-YEAR STORM
 MAXIMUM WATER SURFACE LEVEL
 EXISTING CONDITIONS**



Max Depth [m]	
	< 0.1
	0.1 - 0.2
	0.2 - 0.5
	0.5 - 1.0
	1.0 - 1.5
	1.5 - 2.0
	2.0 - 2.5
	2.5 - 3.0
	> 3.0

Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
 2. Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS,
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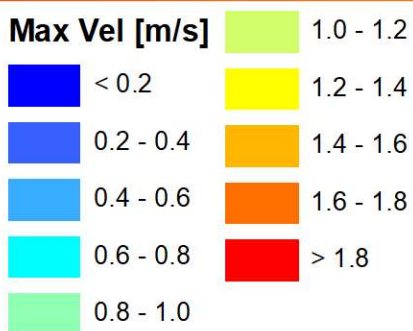
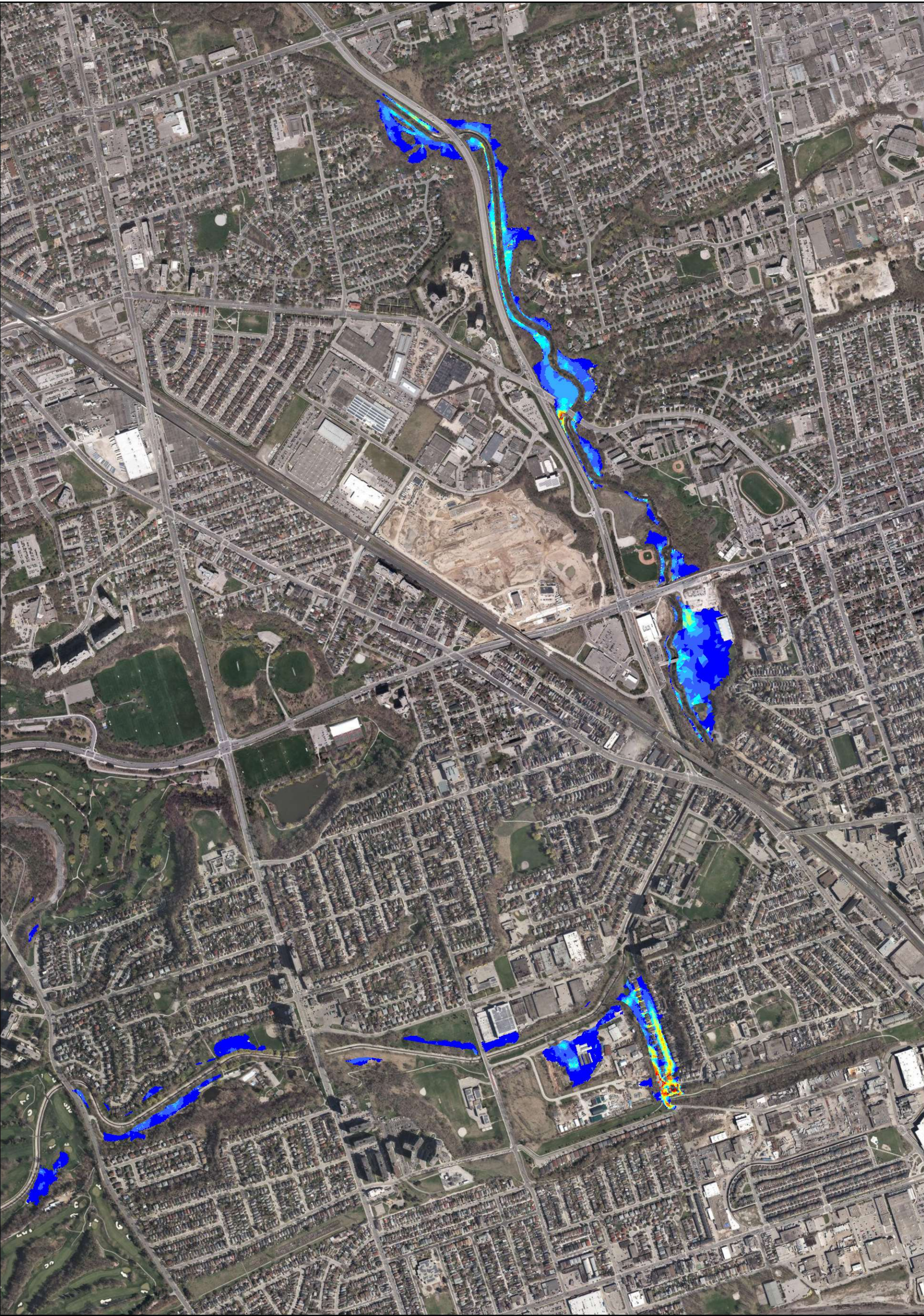
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Rockcliffe SPA 2D Model and Floodplain Mapping Update
Toronto Region Conservation Authority

Figure No
B-18

Title
**DESIGN 25-YEAR STORM
MAXIMUM FLOOD DEPTH
EXISTING CONDITIONS**



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
 2. Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS,
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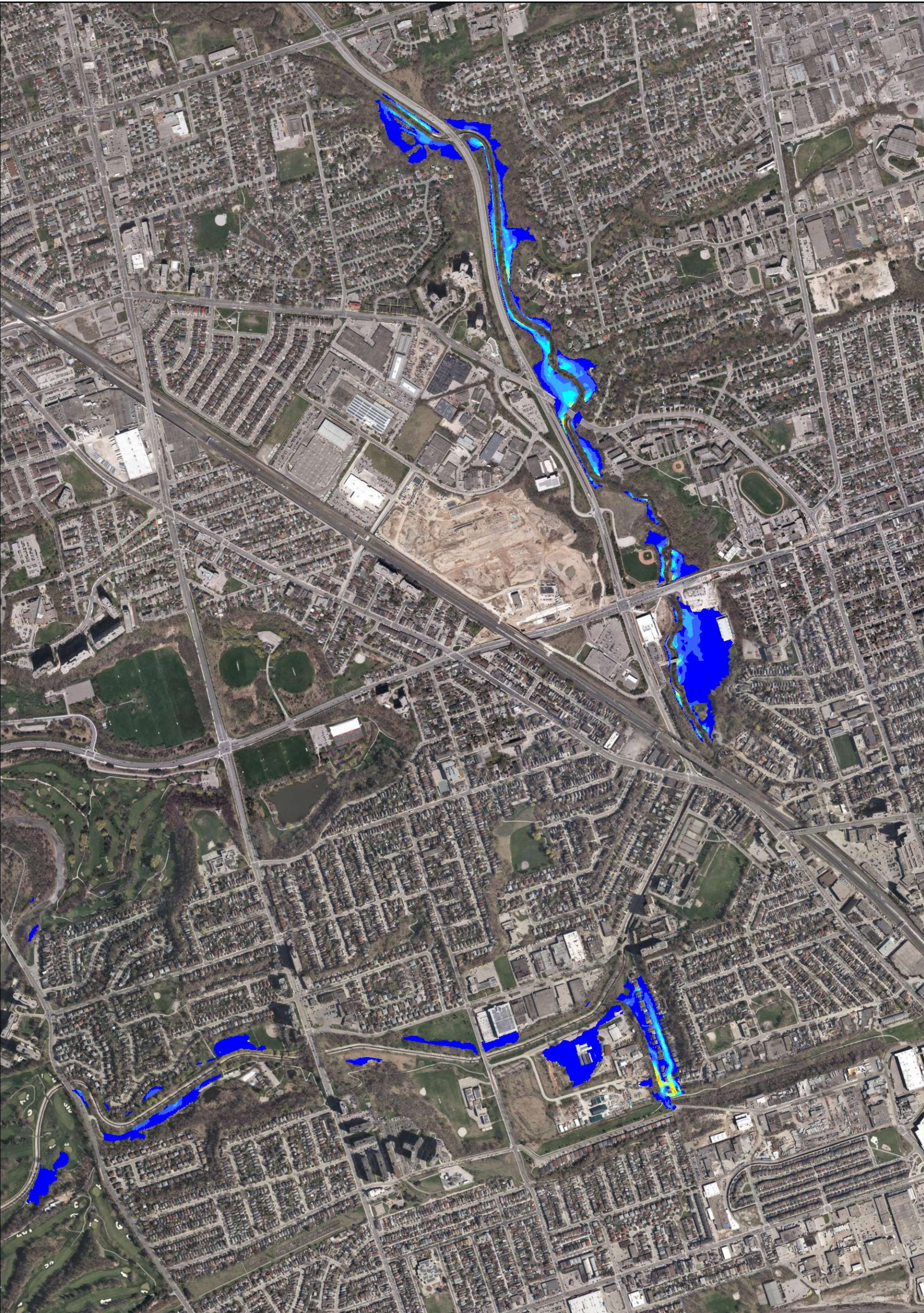
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 Toronto Region Conservation Authority

Figure No.
B-19

Title
**DESIGN 25-YEAR STORM
 MAXIMUM VELOCITY
 EXISTING CONDITIONS**



Max Vel * Depth

	< 0.2		1.0 - 1.2
	0.2 - 0.4		1.2 - 1.4
	0.4 - 0.6		1.4 - 1.6
	0.6 - 0.8		1.6 - 1.8
	0.8 - 1.0		> 1.8

Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
 2. Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS,
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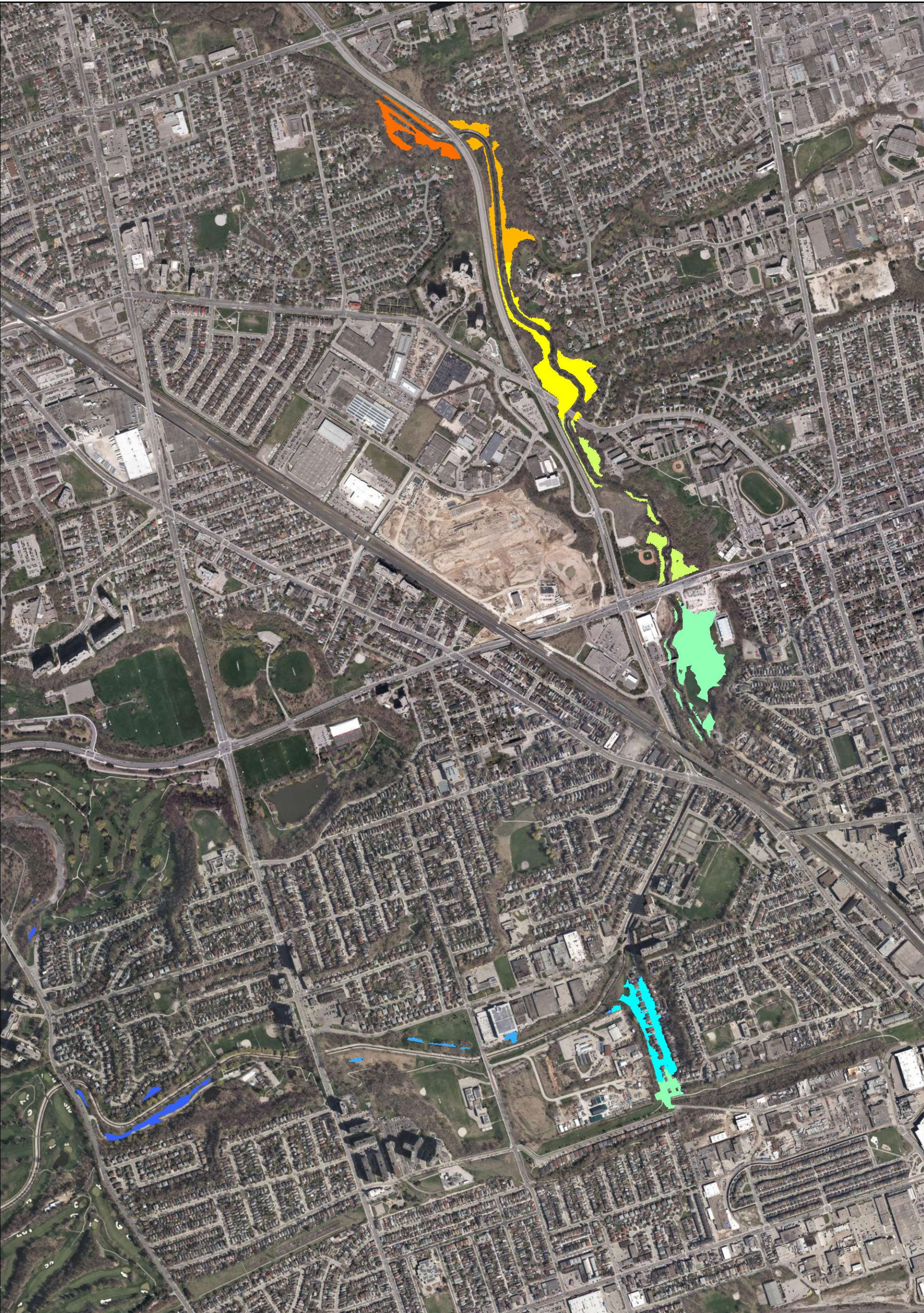
Prepared by Yi Wang on 2019-10-17

Client/Project

Rockcliffe SPA 2D Model and Floodplain Mapping Update
Toronto Region Conservation Authority

Figure No.
B-20

Title
**DESIGN 25-YEAR STORM
MAXIMUM VELOCITY AND DEPTH
PRODUCT
EXISTING CONDITIONS**



Max WSL [m]	Color
< 97.5	Dark Blue
97.5 - 100.0	Blue
100 - 102.5	Light Blue
102.5 - 105.0	Cyan
105 - 107.5	Light Green
107.5 - 110.0	Yellow-Green
110 - 112.5	Yellow
112.5 - 115.0	Orange
115 - 117.5	Red-Orange
117.5 - 120.0	Red

Notes
 1. Coordinate System: NAD 1983 UTM Zone 17N
 2. Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS,
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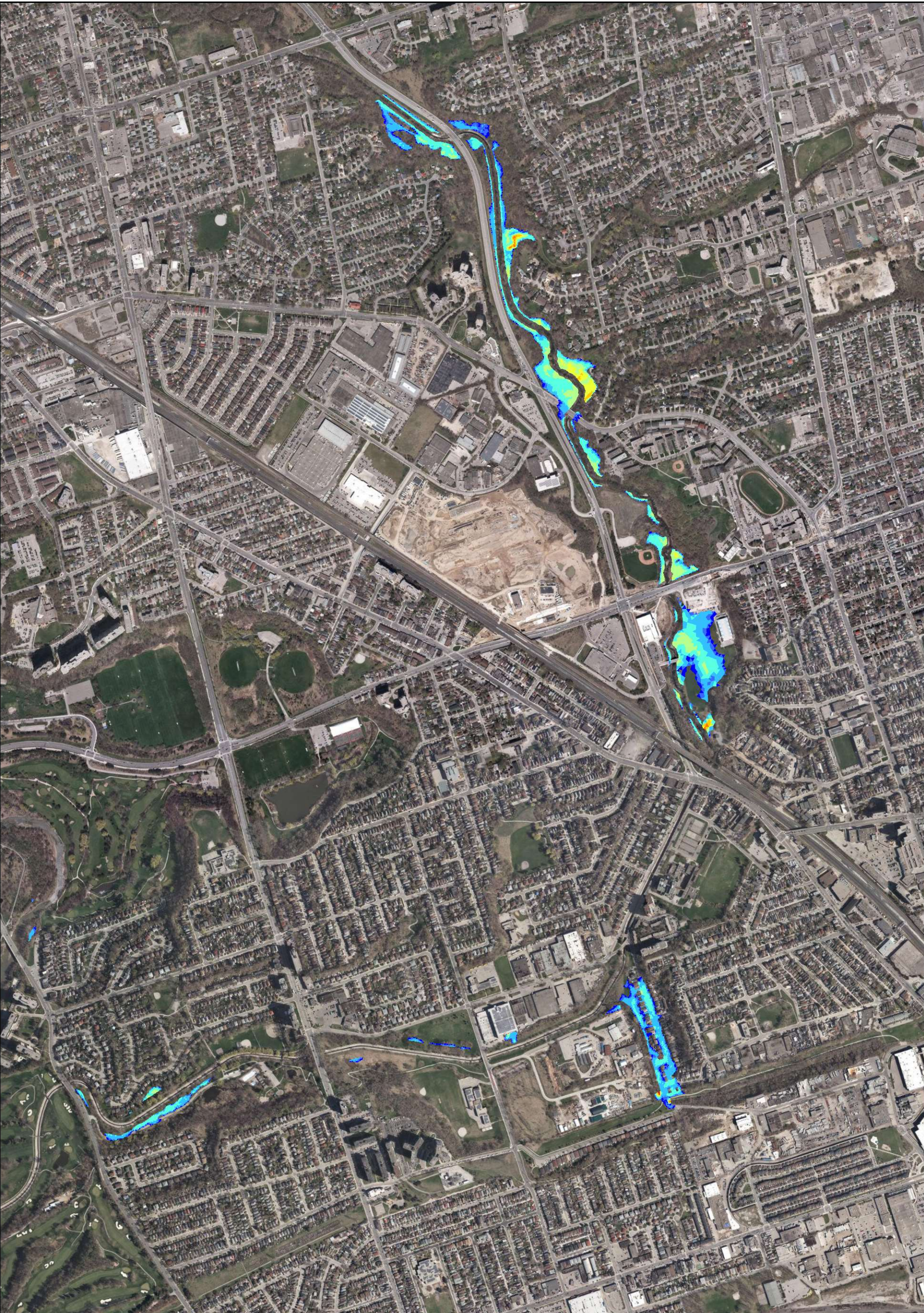
Prepared by Yi Wang on 2019-10-17

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Rockcliffe SPA 2D Model and Floodplain Mapping Update
 Toronto Region Conservation Authority

Figure No.
B-21

Title
**DESIGN 10-YEAR STORM
 MAXIMUM WATER SURFACE LEVEL
 EXISTING CONDITIONS**



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Rockcliffe SPA 2D Model and Floodplain Mapping Update
Toronto Region Conservation Authority

Figure No.
B-22

Title
**DESIGN 10-YEAR STORM
MAXIMUM FLOOD DEPTH
EXISTING CONDITIONS**



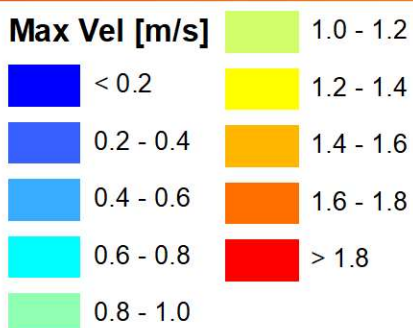
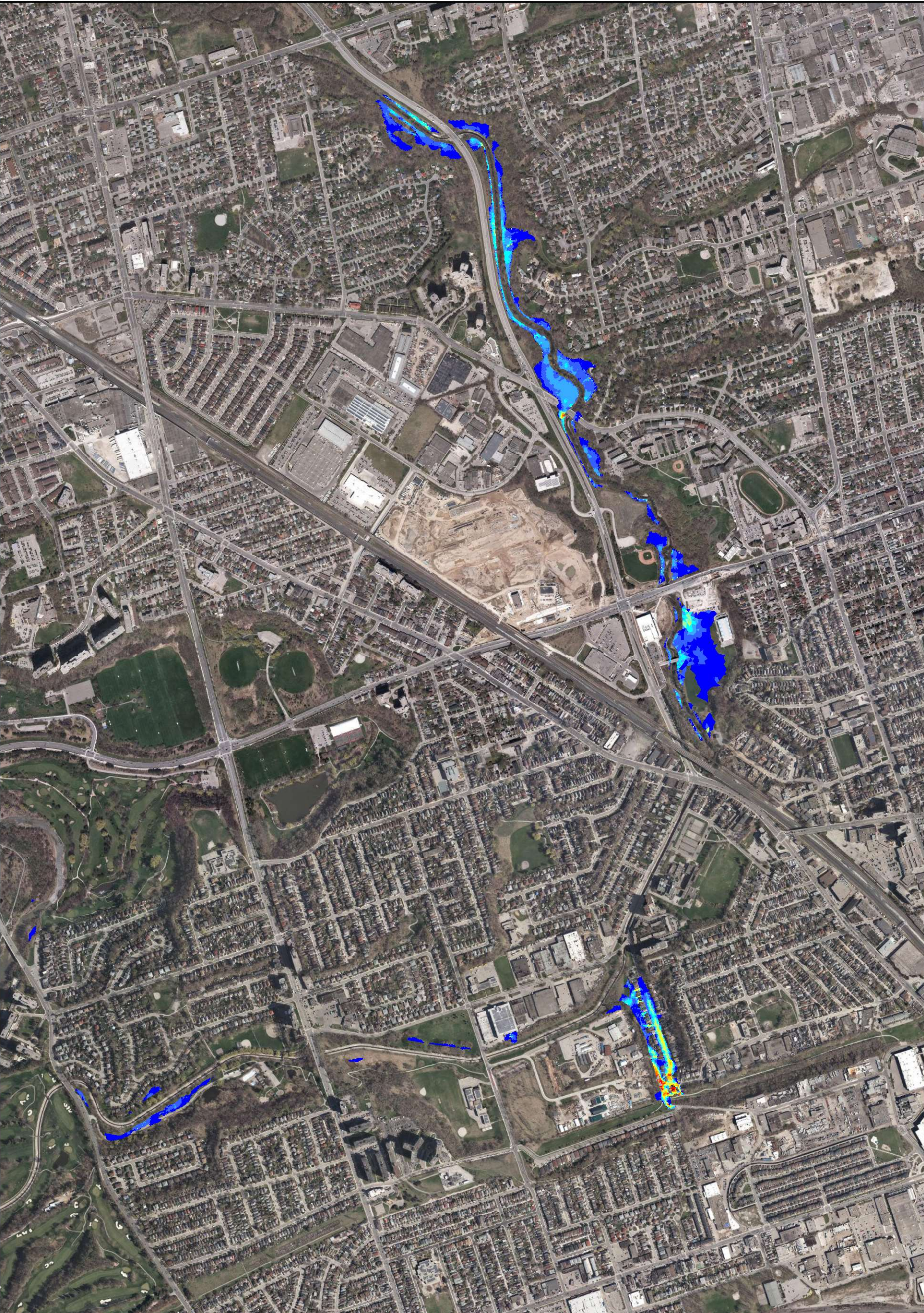
Max Depth [m]

	< 0.1		1.0 - 1.5
	0.1 - 0.2		1.5 - 2.0
	0.2 - 0.5		2.0 - 2.5
	0.5 - 1.0		2.5 - 3.0
			> 3.0

Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS,

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Notes

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 2. Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS,
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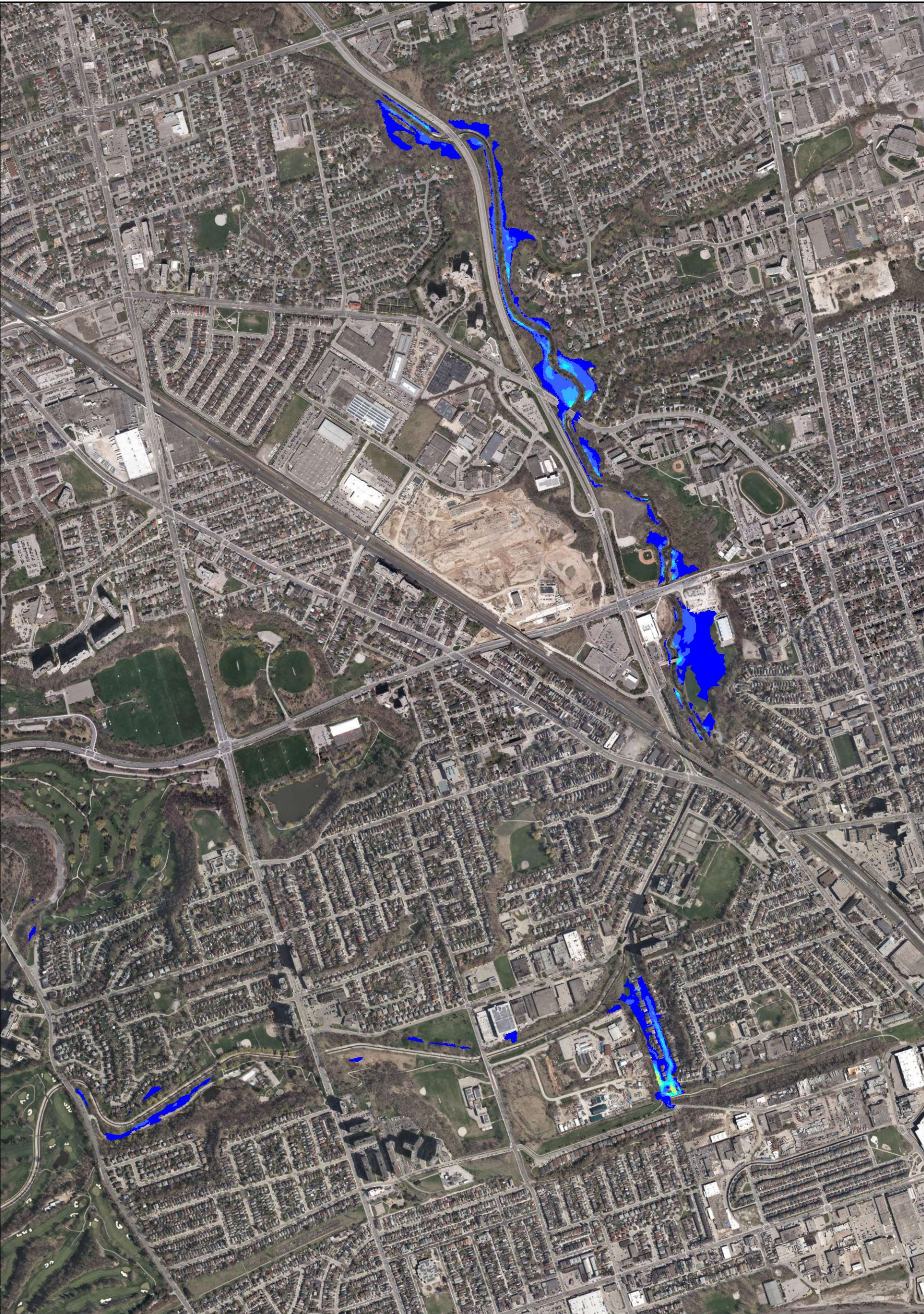
Prepared by Yi Wang on 2019-10-17

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Rockcliffe SPA 2D Model and Floodplain Mapping Update
Toronto Region Conservation Authority

Figure No.
B-23

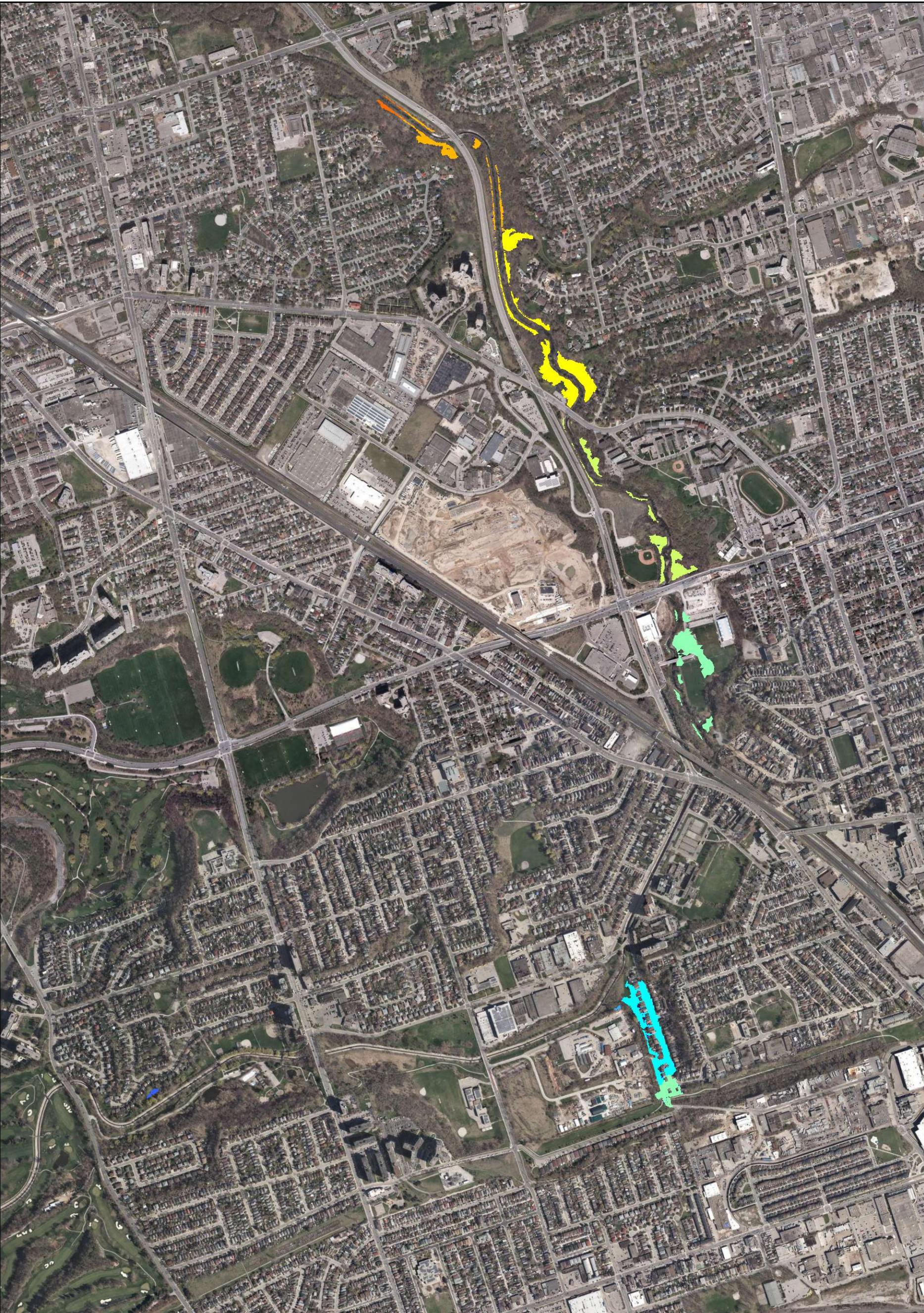
Title
**DESIGN 10-YEAR STORM
MAXIMUM VELOCITY
EXISTING CONDITIONS**



Max Vel * Depth	
	< 0.2
	0.2 - 0.4
	0.4 - 0.6
	0.6 - 0.8
	0.8 - 1.0
	1.0 - 1.2
	1.2 - 1.4
	1.4 - 1.6
	1.6 - 1.8
	> 1.8

Notes
 1. Coordinate System: NAD 1983 UTM Zone 17N
 2. Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS,
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 Rockcliffe SPA 2D Model and Floodplain Mapping Update
 Toronto Region Conservation Authority
 Figure No.
B-24
 Title
**DESIGN 10-YEAR STORM
 MAXIMUM VELOCITY AND DEPTH
 PRODUCT
 EXISTING CONDITIONS**



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








Rockcliffe SPA 2D Model and Floodplain Mapping Update
Toronto Region Conservation Authority

Figure No.
B-25

Title
**DESIGN 5-YEAR STORM
MAXIMUM WATER SURFACE LEVEL
EXISTING CONDITIONS**

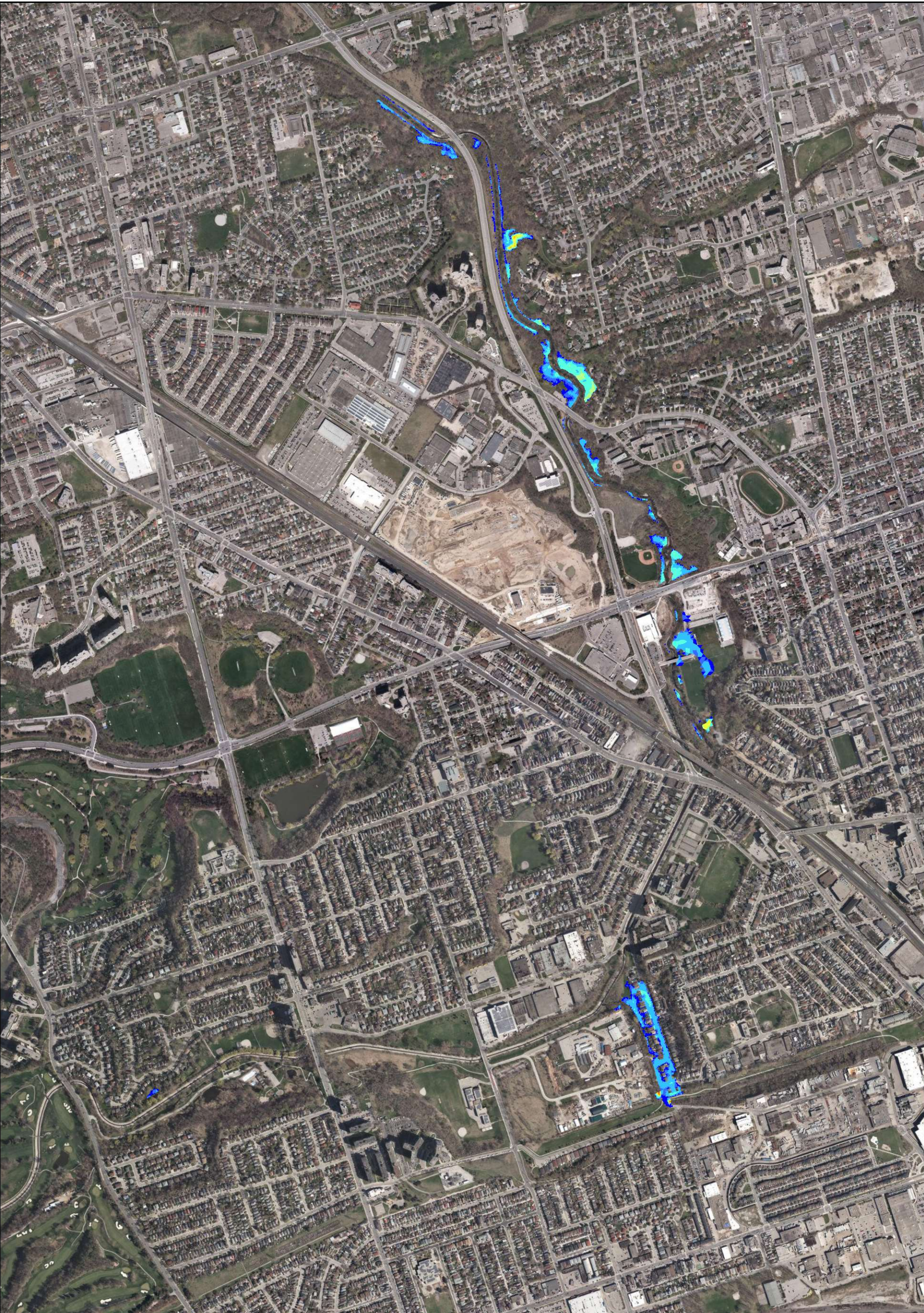


Max WSL [m]

	< 97.5		107.5 - 110.0
	97.5 - 100.0		110 - 112.5
	100 - 102.5		112.5 - 115.0
	102.5 - 105.0		115 - 117.5
	105 - 107.5		117.5 - 120.0

Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS,
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Max Depth [m]	
	< 0.1
	0.1 - 0.2
	0.2 - 0.5
	0.5 - 1.0
	1.0 - 1.5
	1.5 - 2.0
	2.0 - 2.5
	2.5 - 3.0
	> 3.0

Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
 2. Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS,
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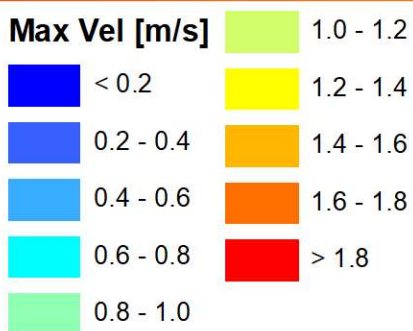
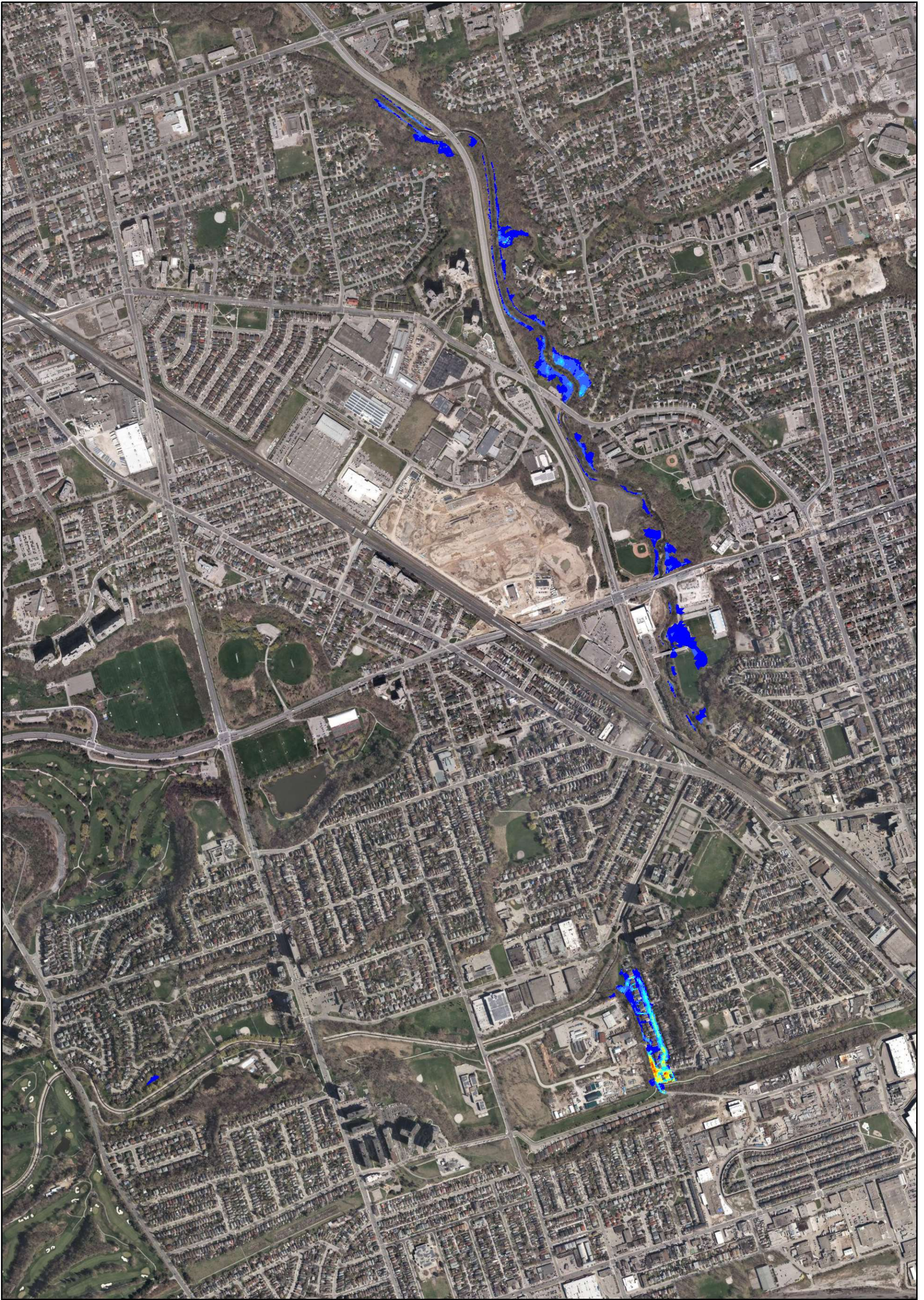
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Rockcliffe SPA 2D Model and Floodplain Mapping Update
Toronto Region Conservation Authority

Figure No
B-26

Title
**DESIGN 5-YEAR STORM
MAXIMUM FLOOD DEPTH
EXISTING CONDITIONS**



Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
 2. Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS,
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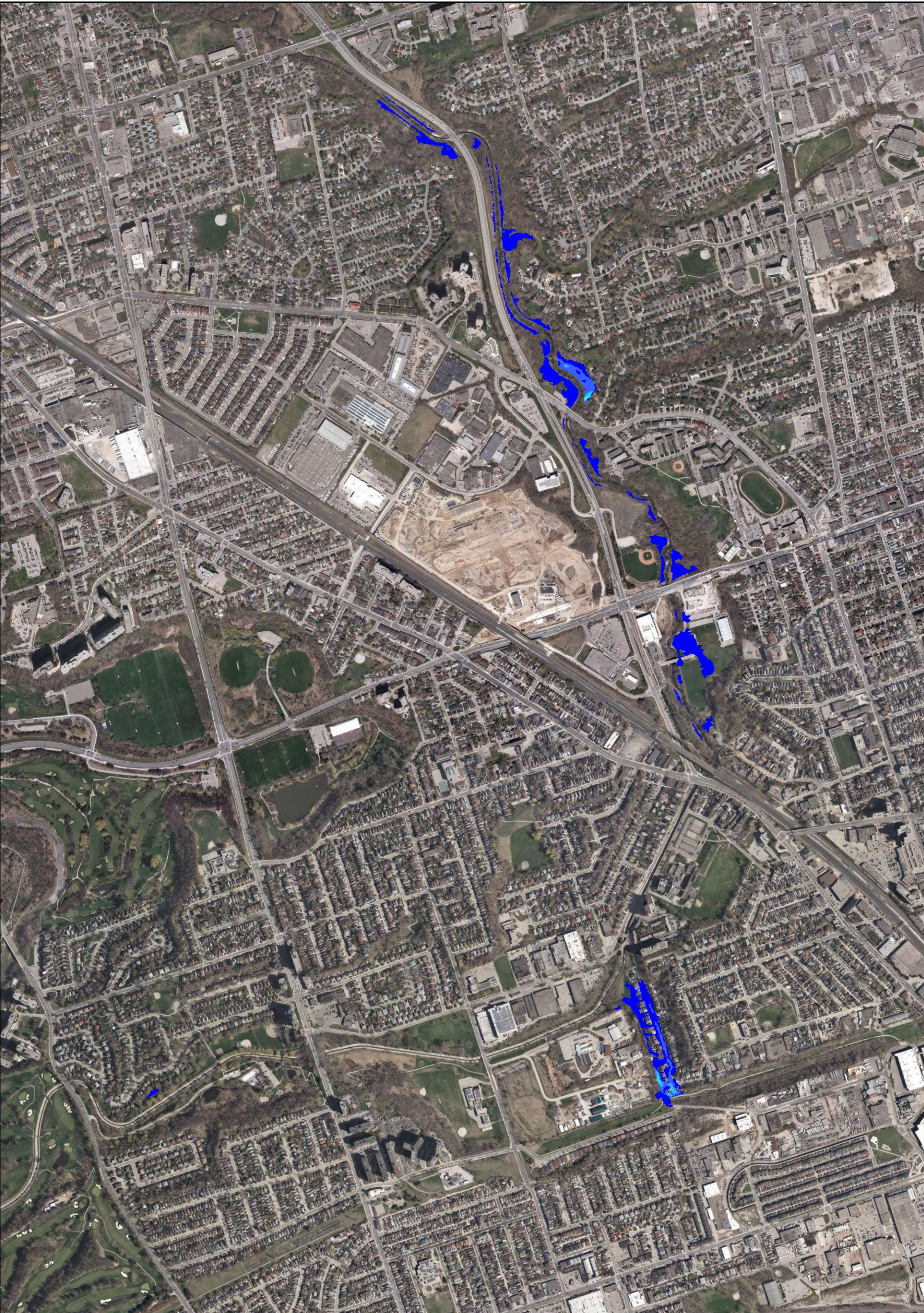
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Rockcliffe SPA 2D Model and Floodplain Mapping Update
Toronto Region Conservation Authority

Figure No.
B-27

Title
**DESIGN 5-YEAR STORM
MAXIMUM VELOCITY
EXISTING CONDITIONS**



Max Vel * Depth

	< 0.2		1.0 - 1.2
	0.2 - 0.4		1.2 - 1.4
	0.4 - 0.6		1.4 - 1.6
	0.6 - 0.8		1.6 - 1.8
	0.8 - 1.0		> 1.8

Notes

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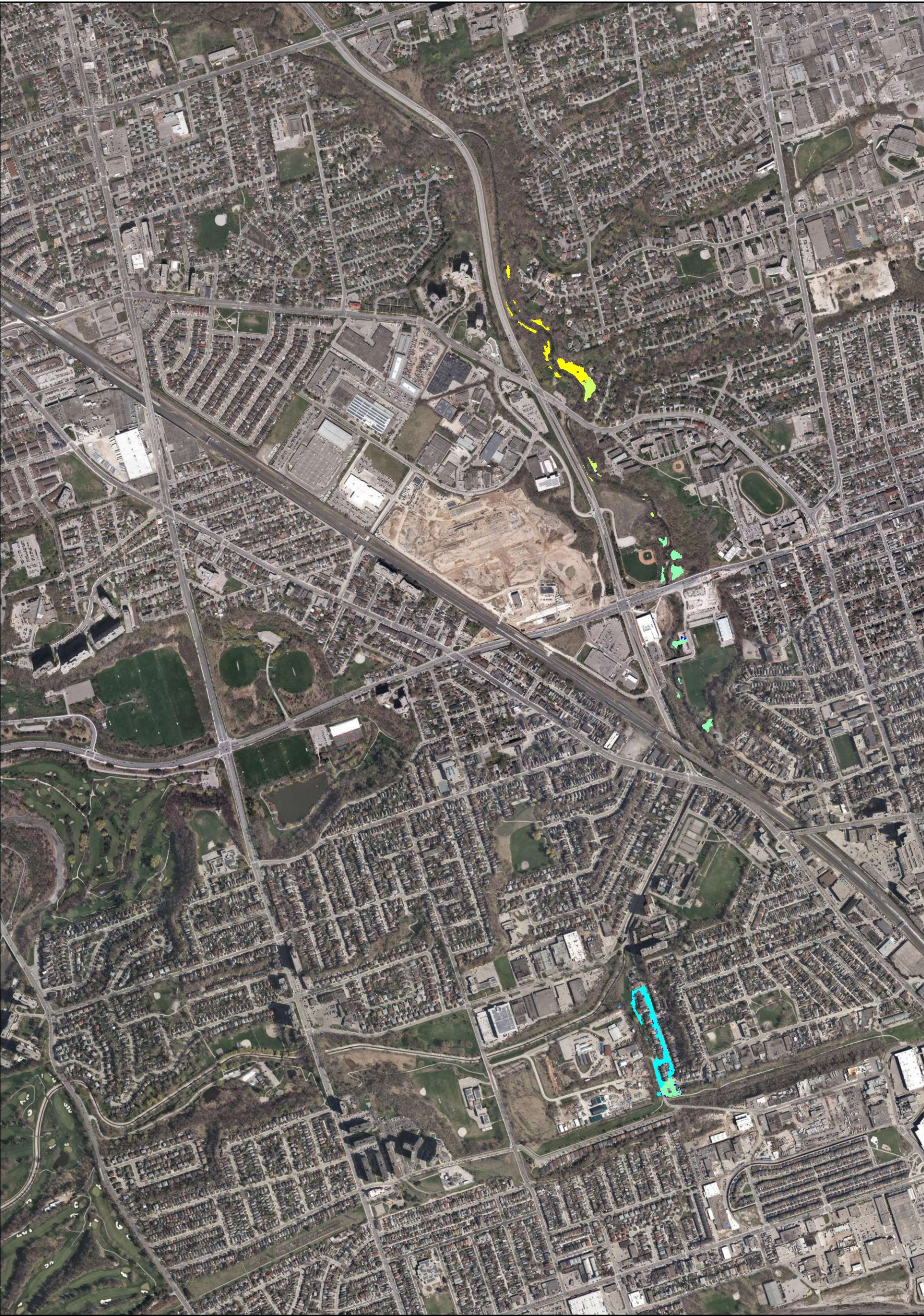
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Rockcliffe SPA 2D Model and Floodplain Mapping Update
Toronto Region Conservation Authority

Figure No
B-28

Title
**DESIGN 5-YEAR STORM
MAXIMUM VELOCITY AND DEPTH
PRODUCT
EXISTING CONDITIONS**



Max WSL [m]	
	< 97.5
	97.5 - 100.0
	100 - 102.5
	102.5 - 105.0
	105 - 107.5
	107.5 - 110.0
	110 - 112.5
	112.5 - 115.0
	115 - 117.5
	117.5 - 120.0

Notes

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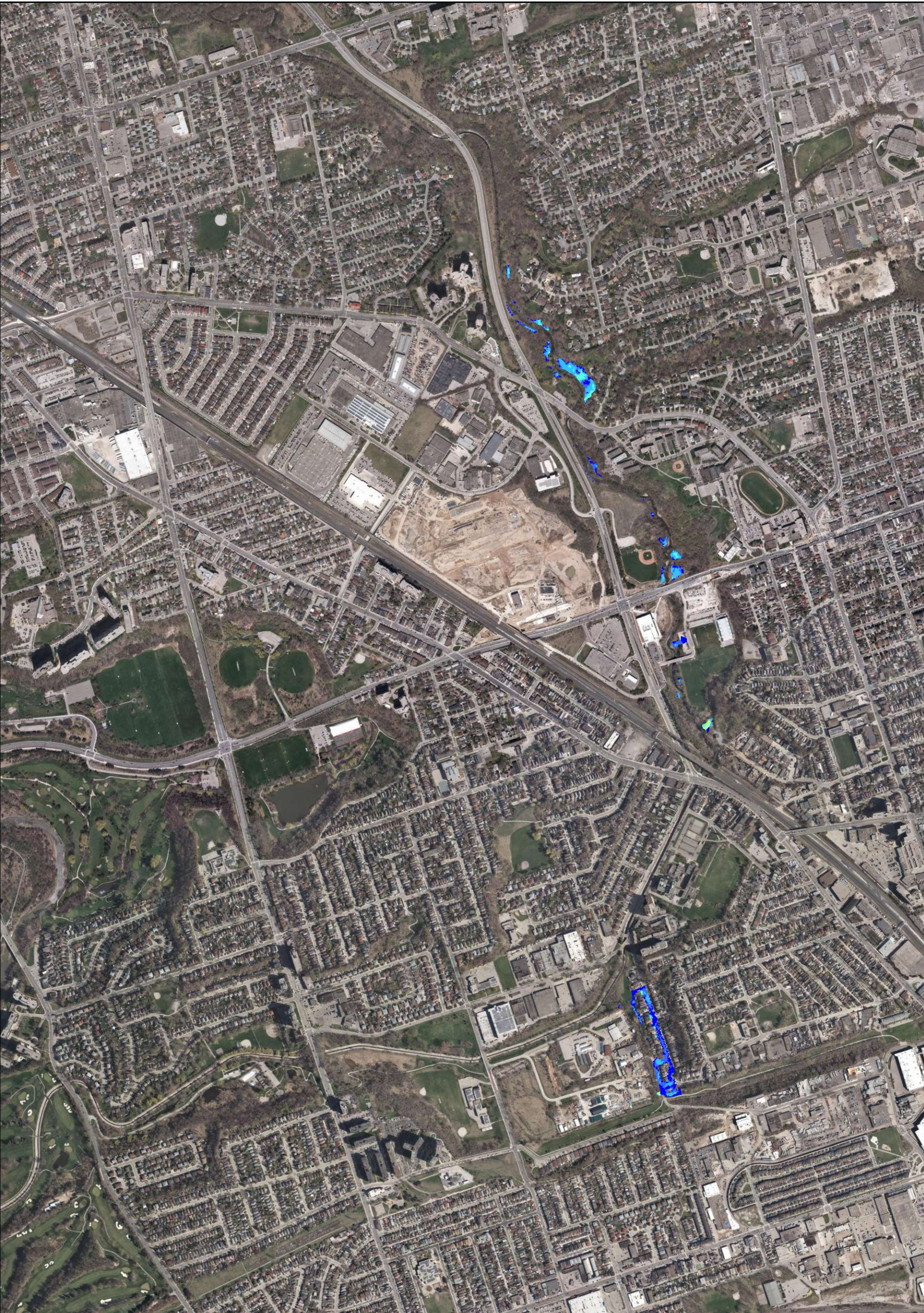
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Rockcliffe SPA 2D Model and Floodplain Mapping Update
Toronto Region Conservation Authority

Figure No.
B-29

Title
**DESIGN 2-YEAR STORM
MAXIMUM WATER SURFACE LEVEL
EXISTING CONDITIONS**



Max Depth [m]	
	< 0.1
	0.1 - 0.2
	0.2 - 0.5
	0.5 - 1.0
	1.0 - 1.5
	1.5 - 2.0
	2.0 - 2.5
	2.5 - 3.0
	> 3.0

Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
 2. Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS,
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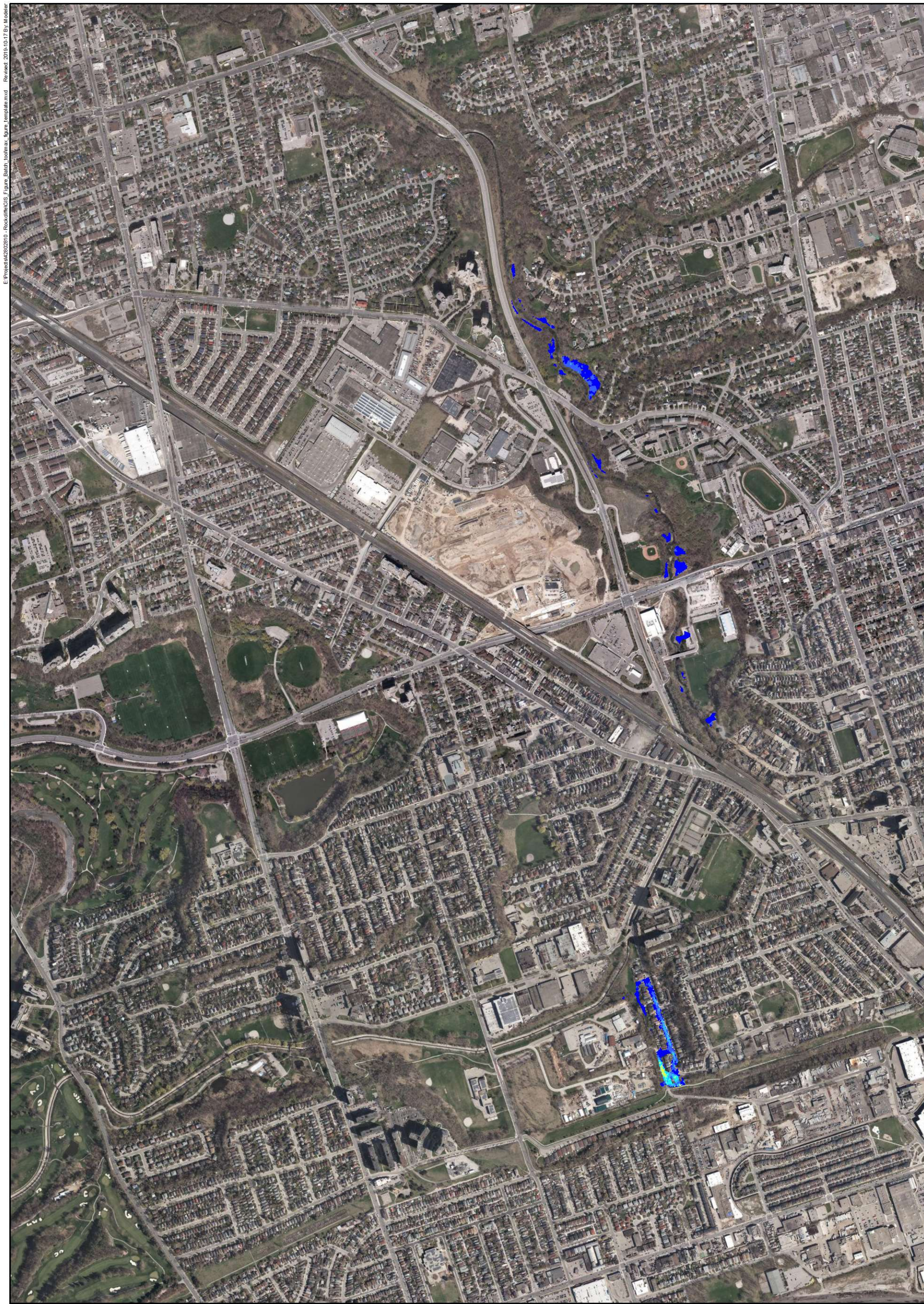
Prepared by Yi Wang on 2019-10-17

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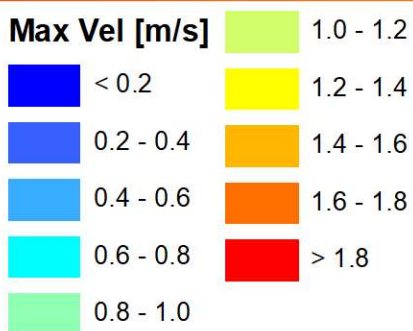
Rockcliffe SPA 2D Model and Floodplain Mapping Update
 Toronto Region Conservation Authority

Figure No.
B-30

Title
**DESIGN 2-YEAR STORM
 MAXIMUM FLOOD DEPTH
 EXISTING CONDITIONS**



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Notes

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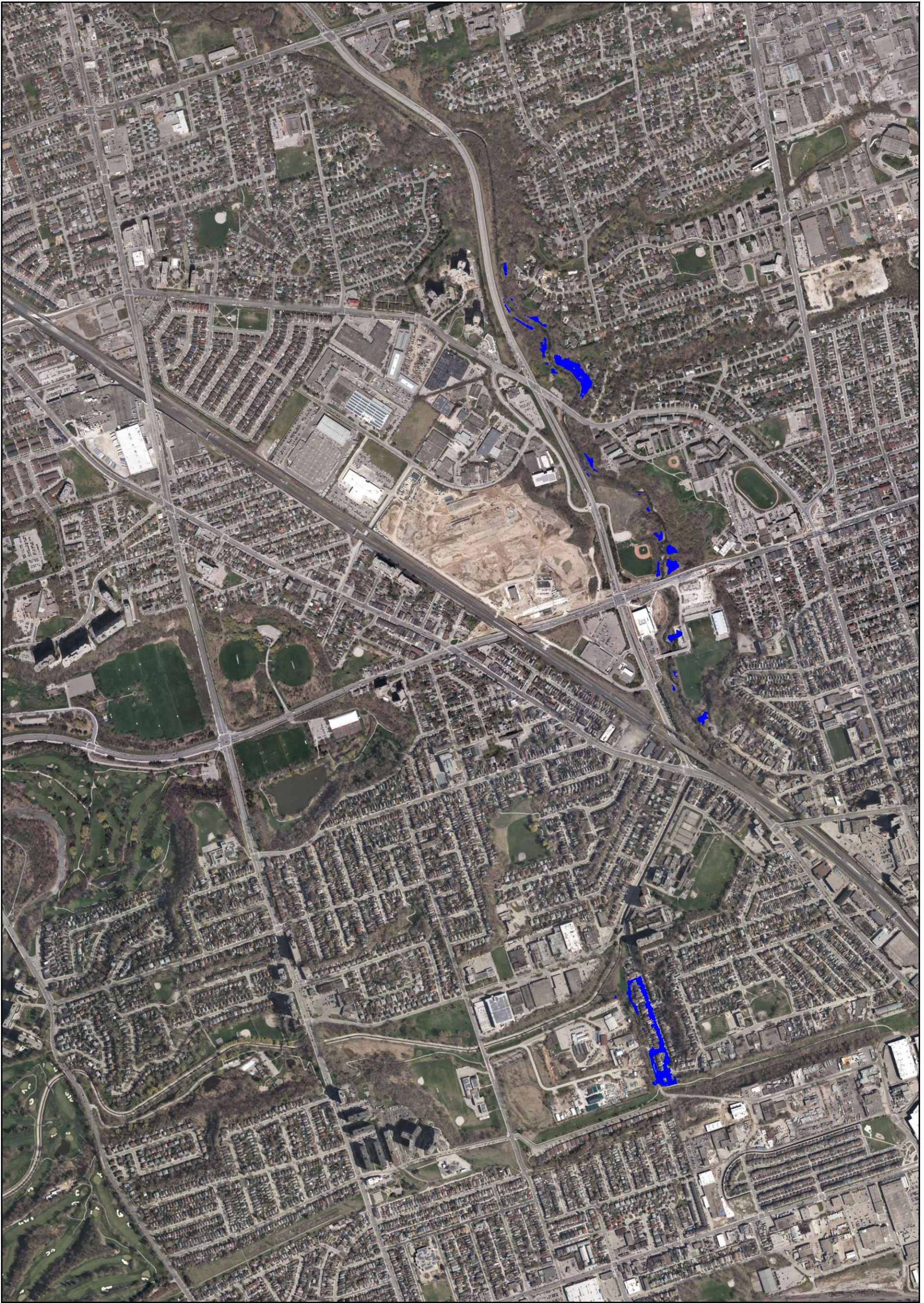
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Rockcliffe SPA 2D Model and Floodplain Mapping Update
 Toronto Region Conservation Authority

Figure No
B-31

Title
**DESIGN 2-YEAR STORM
 MAXIMUM VELOCITY
 EXISTING CONDITIONS**



Max Vel * Depth	
	< 0.2
	0.2 - 0.4
	0.4 - 0.6
	0.6 - 0.8
	0.8 - 1.0
	1.0 - 1.2
	1.2 - 1.4
	1.4 - 1.6
	1.6 - 1.8
	> 1.8

Notes
 1. Coordinate System: NAD 1983 UTM Zone 17N
 2. Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS,
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 Prepared by Yi Wang on 2019-10-17
 Client/Project
 Rockcliffe SPA 2D Model and Floodplain Mapping Update
 Toronto Region Conservation Authority
 Figure No.
B-32
 Title
**DESIGN 2-YEAR STORM
 MAXIMUM VELOCITY AND DEPTH
 PRODUCT
 EXISTING CONDITIONS**