Appendix 9

Results: Hydraulic Models



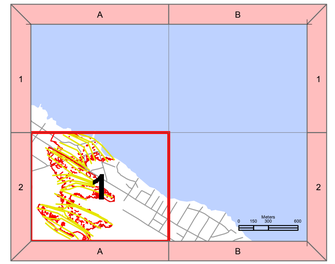
565800

4926740

4925640

Collingwood

Floodlines - Batteaux Creek (Existing Condition)



Legend

- Rivers
- Road
- Contour
- Cross Sections
- Building Footprint
- 100 Year Floodline
- Timmins Floodline
- Property Parcels

193.25 / 191.88 — 600

REGULATORY FLOOD ELEVATION

SECTION NUMBER

100 YEAR FLOOD ELEVATION

N W E S

Sheet: 1

1:2,000

Meters 0 20 40 80 120 160 200

Scale: 1 : 2,000
1 cm on the map represents 20 m on the ground

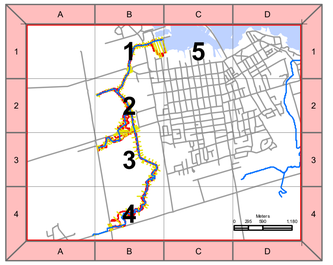
All measurements are in Metric.

Vertical Datum: Mean Sea Level (G.S.C.)
Horizontal Datum: North American Datum 1983 (NAD 83)
Projection: Universal Transverse Mercator
Zone: 17
Central Meridian: 81° West
Grid Spacing: 100 Meters

NOTES:
1. Floodlines were generated using a DEM derived from a LiDAR survey.
2. Where a discrepancy between the contours and the Floodlineis evident, the Floodline shall take precedence.
3. An additional topographic survey and professional expertise may be used to more precisely locate the Floodline on specific properties.

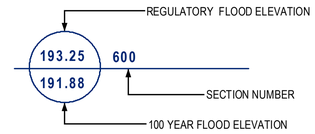
Collingwood

Floodlines - Black Ash Creek (Existing Condition)



Legend

- Rivers
- Road
- Contour
- Cross Sections
- Building Footprint
- 100 Year Floodline
- Timmins Floodline
- Property Parcels



N
W E
S

Sheet: Index

1:8,000

Meters 0 80 160 320 480 640 800

COLLINGWOOD

GREENLAND

Scale: 1 : 2,000
1 cm on the map represents 20 m on the ground

All measurements are in Metric.

Vertical Datum: Mean Sea Level (G.S.C.)
Horizontal Datum: North American Datum 1983 (NAD 83)
Projection: Universal Transverse Mercator
Zone: 17
Central Meridian: 81° West
Grid Spacing: 100 Meters

NOTES:
1. Floodlines were generated using a DEM derived from a LiDAR survey.
2. Where a discrepancy between the contours and the Floodlineis evident, the Floodline shall take precedence.
3. An additional topographic survey and professional expertise may be used to more precisely locate the Floodline on specific properties.

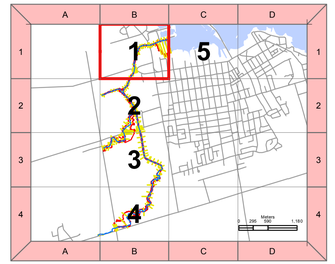
559750

4928800

4927700

Collingwood

Floodlines - Black Ash Creek (Existing Condition)



Legend

- Rivers
- Road
- Contour
- Cross Sections
- Building Footprint
- 100 Year Floodline
- Timmins Floodline
- Property Parcels

REGULATORY FLOOD ELEVATION
193.25 / 191.88 — 600
600 — SECTION NUMBER
191.88 — 100 YEAR FLOOD ELEVATION

N W E S

Sheet: 1

1:2,000

Meters 0 20 40 80 120 160 200

Scale: 1 : 2,000
1 cm on the map represents 20 m on the ground

All measurements are in Metric.

Vertical Datum: Mean Sea Level (G.S.C.)
Horizontal Datum: North American Datum 1983 (NAD 83)
Projection: Universal Transverse Mercator
Zone: 17
Central Meridian: 81° West
Grid Spacing: 100 Meters

NOTES:
1. Floodlines were generated using a DEM derived from a LiDAR survey.
2. Where a discrepancy between the contours and the Floodlineis evident, the Floodline shall take precedence.
3. An additional topographic survey and professional expertise may be used to more precisely locate the Floodline on specific properties.

559750

4927700



559750

4926800

4925500

MARINA CRESCENT

SIXTH STREET

TENTH LINE

CHAMBERLAIN CRESCENT

DAVIS STREET

HOLDEN STREET

BAIRD STREET

PATON STREET

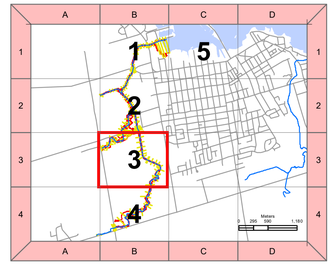
HIGH STREET

FUTURE STREET

Spill (cms)= 4.38 (100 Year), 15.47 (Timmins)

Collingwood

Floodlines - Black Ash Creek (Existing Condition)



Legend

- Rivers
- Road
- Contour
- Cross Sections
- Building Footprint
- 100 Year Floodline
- Timmins Floodline
- Property Parcels

REGULATORY FLOOD ELEVATION

193.25 / 191.88 — 600

SECTION NUMBER

100 YEAR FLOOD ELEVATION

N W E S

Sheet: 3

1:2,000

Meters 0 20 40 80 120 160 200

Scale: 1 : 2,000
1 cm on the map represents 20 m on the ground

All measurements are in Metric.

Vertical Datum: Mean Sea Level (G.S.C.)
Horizontal Datum: North American Datum 1983 (NAD 83)
Projection: Universal Transverse Mercator
Zone: 17
Central Meridian: 81° West
Grid Spacing: 100 Meters

NOTES:
1. Floodlines were generated using a DEM derived from a LiDAR survey.
2. Where a discrepancy between the contours and the Floodlineis evident, the Floodline shall take precedence.
3. An additional topographic survey and professional expertise may be used to more precisely locate the Floodline on specific properties.

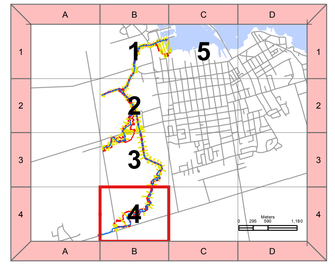
559750

4925500

4924400

Collingwood

Floodlines - Black Ash Creek (Existing Condition)



Legend

- Rivers
- Road
- Contour
- Cross Sections
- Building Footprint
- 100 Year Floodline
- Timmins Floodline
- Property Parcels

REGULATORY FLOOD ELEVATION
193.25 / 191.88 — 600
SECTION NUMBER
100 YEAR FLOOD ELEVATION

N
W E
S

Sheet: 4

1:2,000

Meters 0 20 40 80 120 160 200

COLLINGWOOD

GREENLAND®

Scale: 1 : 2,000
1 cm on the map represents 20 m on the ground

All measurements are in Metric.

Vertical Datum: Mean Sea Level (G.S.C.)
Horizontal Datum: North American Datum 1983 (NAD 83)
Projection: Universal Transverse Mercator
Zone: 17
Central Meridian: 81° West
Grid Spacing: 100 Meters

NOTES:
1. Floodlines were generated using a DEM derived from a LiDAR survey.
2. Where a discrepancy between the contours and the Floodlineis evident, the Floodline shall take precedence.
3. An additional topographic survey and professional expertise may be used to more precisely locate the Floodline on specific properties.

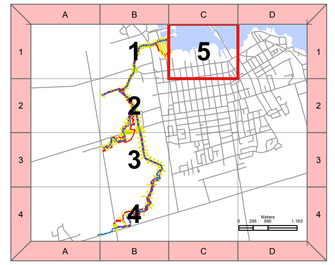
561150

4928800

4927700

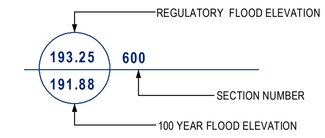
Collingwood

Floodlines - Black Ash Creek (Existing Condition)



Legend

- Rivers
- Road
- Contour
- Cross Sections
- Building Footprint
- 100 Year Floodline
- Timmins Floodline
- Property Parcels



N
W
E
S

Sheet: 5

1:2,000

Meters 0 20 40 80 120 160 200

Scale: 1 : 2,000
1 cm on the map represents 20 m on the ground

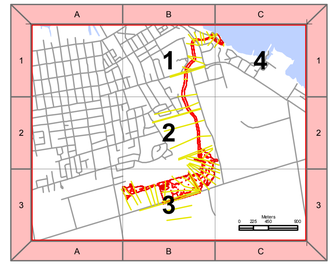
All measurements are in Metric.

Vertical Datum: Mean Sea Level (G.S.C.)
Horizontal Datum: North American Datum 1983 (NAD 83)
Projection: Universal Transverse Mercator
Zone: 17
Central Meridian: 81° West
Grid Spacing: 100 Meters

NOTES:
1. Floodlines were generated using a DEM derived from a LiDAR survey.
2. Where a discrepancy between the contours and the Floodlineis evident, the Floodline shall take precedence.
3. An additional topographic survey and professional expertise may be used to more precisely locate the Floodline on specific properties.

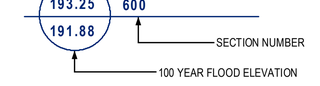
Collingwood

Floodlines - Pretty River (Existing Condition)



Legend

- Rivers
- Road
- Contour
- Cross Sections
- Building Footprint
- 100 Year Floodline
- Timmins Floodline
- Property Parcels



N
W E
S

Sheet: Index

1:6,000

Meters 0 60 120 240 360 480 600

Scale: 1 : 2,000
1 cm on the map represents 20 m on the ground

All measurements are in Metric.

Vertical Datum: Mean Sea Level (G.S.C.)
Horizontal Datum: North American Datum 1983 (NAD 83)
Projection: Universal Transverse Mercator
Zone: 17
Central Meridian: 81° West
Grid Spacing: 100 Meters

NOTES:
1. Floodlines were generated using a DEM derived from a LiDAR survey.
2. Where a discrepancy between the contours and the Floodlineis evident, the Floodline shall take precedence.
3. An additional topographic survey and professional expertise may be used to more precisely locate the Floodline on specific properties.

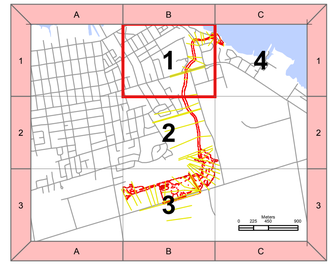
562680

4929300

4927200

Collingwood

Floodlines - Pretty River (Existing Condition)



Legend

- Rivers
- Road
- Contour
- Cross Sections
- Building Footprint
- 100 Year Floodline
- Timmins Floodline
- Property Parcels

REGULATORY FLOOD ELEVATION

193.25 / 191.88 — 600

600 — SECTION NUMBER

191.88 — 100 YEAR FLOOD ELEVATION

N W E S

Sheet: 1

1:2,000

Meters 0 20 40 80 120 160 200

COLLINGWOOD

GREENLAND®

Scale: 1 : 2,000
1 cm on the map represents 20 m on the ground

All measurements are in Metric.

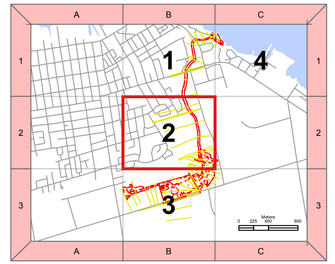
Vertical Datum: Mean Sea Level (G.S.C.)
Horizontal Datum: North American Datum 1983 (NAD 83)
Projection: Universal Transverse Mercator
Zone: 17
Central Meridian: 81° West
Grid Spacing: 100 Meters

NOTES:
1. Floodlines were generated using a DEM derived from a LiDAR survey.
2. Where a discrepancy between the contours and the Floodlineis evident, the Floodline shall take precedence.
3. An additional topographic survey and professional expertise may be used to more precisely locate the Floodline on specific properties.



Collingwood

Floodlines - Pretty River
(Existing Condition)



Legend

- Rivers
- Road
- Contour
- Cross Sections
- Building Footprint
- 100 Year Floodline
- Timmins Floodline
- Property Parcels

REGULATORY FLOOD ELEVATION

193.25 600

191.88

SECTION NUMBER

100 YEAR FLOOD ELEVATION

N W E S

Sheet: 2

1:2,000

Meters 0 20 40 80 120 160 200

COLLINGWOOD

GREENLAND

Scale: 1 : 2,000
1 cm on the map represents 20 m on the ground

All measurements are in Metric.

Vertical Datum: Mean Sea Level (G.S.C.)
Horizontal Datum: North American Datum 1983 (NAD 83)
Projection: Universal Transverse Mercator
Zone: 17
Central Meridian: 81° West
Grid Spacing: 100 Meters

NOTES:
1. Floodlines were generated using a DEM derived from a LiDAR survey.
2. Where a discrepancy between the contours and the Floodlineis evident, the Floodline shall take precedence.
3. An additional topographic survey and professional expertise may be used to more precisely locate the Floodline on specific properties.

562680

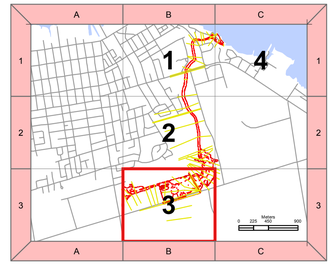
564080

4926100

4925000

Collingwood

Floodlines - Pretty River (Existing Condition)



Legend

- Rivers
- Road
- Contour
- Cross Sections
- Building Footprint
- 100 Year Floodline
- Timmins Floodline
- Property Parcels

REGULATORY FLOOD ELEVATION

193.25 / 191.88 — 600

600 — SECTION NUMBER

191.88 — 100 YEAR FLOOD ELEVATION

N W E S

Sheet: 3

1:2,000

Meters 0 20 40 80 120 160 200

Scale: 1 : 2,000
1 cm on the map represents 20 m on the ground

All measurements are in Metric.

Vertical Datum: Mean Sea Level (G.S.C.)
Horizontal Datum: North American Datum 1983 (NAD 83)
Projection: Universal Transverse Mercator
Zone: 17
Central Meridian: 81° West
Grid Spacing: 100 Meters

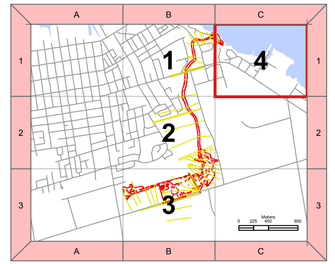
NOTES:
1. Floodlines were generated using a DEM derived from a LiDAR survey.
2. Where a discrepancy between the contours and the Floodlineis evident, the Floodline shall take precedence.
3. An additional topographic survey and professional expertise may be used to more precisely locate the Floodline on specific properties.

564080 565480

4928300 4927200

Collingwood

Floodlines - Pretty River (Existing Condition)



Legend

- Rivers
- Road
- Contour
- Cross Sections
- Building Footprint
- 100 Year Floodline
- Timmins Floodline
- Property Parcels

193.25 / 191.88 — 600

REGULATORY FLOOD ELEVATION

SECTION NUMBER

100 YEAR FLOOD ELEVATION

N W E S

Sheet: 4

1:2,000

Meters 0 20 40 80 120 160 200

Scale: 1 : 2,000
1 cm on the map represents 20 m on the ground

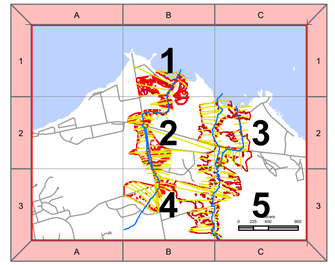
All measurements are in Metric.

Vertical Datum: Mean Sea Level (G.S.C.)
Horizontal Datum: North American Datum 1983 (NAD 83)
Projection: Universal Transverse Mercator
Zone: 17
Central Meridian: 81° West
Grid Spacing: 100 Meters

NOTES:
1. Floodlines were generated using a DEM derived from a LiDAR survey.
2. Where a discrepancy between the contours and the Floodlineis evident, the Floodline shall take precedence.
3. An additional topographic survey and professional expertise may be used to more precisely locate the Floodline on specific properties.

Collingwood

Floodlines - Silver and Townline Creek (Existing Condition)



Legend

- Rivers
- Road
- Contour
- Cross Sections
- Building Footprint
- 100 Year Floodline
- Timmins Floodline
- Property Parcels
- Lake Level

REGULATORY FLOOD ELEVATION
193.25 600
191.88
SECTION NUMBER
100 YEAR FLOOD ELEVATION

N
W E
S

Sheet: Index

1:6,000

Meters 0 62.5 125 250 375 500 625

COLLINGWOOD

GREENLAND®

Scale: 1 : 2,000
1 cm on the map represents 20 m on the ground

All measurements are in Metric.

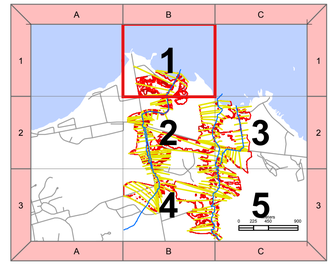
Vertical Datum: Mean Sea Level (G.S.C.)
Horizontal Datum: North American Datum 1983 (NAD 83)
Projection: Universal Transverse Mercator
Zone: 17
Central Meridian: 81° West
Grid Spacing: 100 Meters

NOTES:
1. Floodlines were generated using a DEM derived from a LiDAR survey.
2. Where a discrepancy between the contours and the Floodlineis evident, the Floodline shall take precedence.
3. An additional topographic survey and professional expertise may be used to more precisely locate the Floodline on specific properties.

556000
4931700
4930000

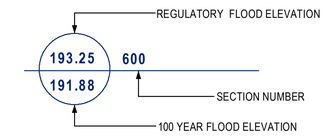
Collingwood

Floodlines - Silver and Townline Creek (Existing Condition)



Legend

- Rivers
- Road
- Contour
- Cross Sections
- Building Footprint
- 100 Year Floodline
- Timmins Floodline
- Property Parcels
- Lake Level



N
W
E
S

Sheet: 1

1:2,000

Meters 0 20 40 80 120 160 200

Scale: 1 : 2,000
1 cm on the map represents 20 m on the ground

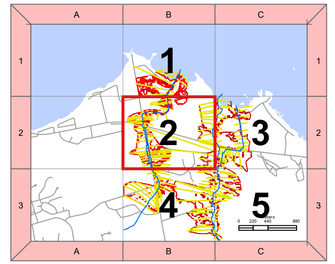
All measurements are in Metric.

Vertical Datum: Mean Sea Level (G.S.C.)
Horizontal Datum: North American Datum 1983 (NAD 83)
Projection: Universal Transverse Mercator
Zone: 17
Central Meridian: 81° West
Grid Spacing: 100 Meters

NOTES:
1. Floodlines were generated using a DEM derived from a LiDAR survey.
2. Where a discrepancy between the contours and the Floodlineis evident, the Floodline shall take precedence.
3. An additional topographic survey and professional expertise may be used to more precisely locate the Floodline on specific properties.

Collingwood

Floodlines - Silver and Townline Creek (Existing Condition)



Legend

- Rivers
- Road
- Contour
- Cross Sections
- Building Footprint
- 100 Year Floodline
- Timmins Floodline
- Property Parcels
- Lake Level

REGULATORY FLOOD ELEVATION
193.25 / 191.88 — 600
SECTION NUMBER
100 YEAR FLOOD ELEVATION

N W E S

Sheet: 2

1:2,000

Meters 0 20 40 80 120 160 200

COLLINGWOOD

GREENLAND®

Scale: 1 : 2,000
1 cm on the map represents 20 m on the ground

All measurements are in Metric.

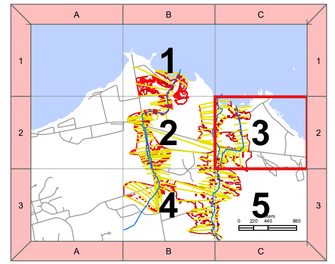
Vertical Datum: Mean Sea Level (G.S.C.)
Horizontal Datum: North American Datum 1983 (NAD 83)
Projection: Universal Transverse Mercator
Zone: 17
Central Meridian: 81° West
Grid Spacing: 100 Meters

NOTES:
1. Floodlines were generated using a DEM derived from a LiDAR survey.
2. Where a discrepancy between the contours and the Floodlineis evident, the Floodline shall take precedence.
3. An additional topographic survey and professional expertise may be used to more precisely locate the Floodline on specific properties.



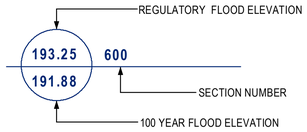
Collingwood

Floodlines - Silver and Townline Creek (Existing Condition)



Legend

- Rivers
- Road
- Contour
- Cross Sections
- Building Footprint
- 100 Year Floodline
- Timmins Floodline
- Property Parcels
- Lake Level





Sheet: 3

1:2,000

Meters 0 20 40 80 120 160 200

Scale: 1 : 2,000
1 cm on the map represents 20 m on the ground

All measurements are in Metric.

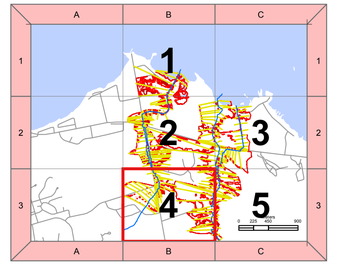
Vertical Datum: Mean Sea Level (G.S.C.)
Horizontal Datum: North American Datum 1983 (NAD 83)
Projection: Universal Transverse Mercator
Zone: 17
Central Meridian: 81° West
Grid Spacing: 100 Meters

NOTES:
1. Floodlines were generated using a DEM derived from a LiDAR survey.
2. Where a discrepancy between the contours and the Floodlineis evident, the Floodline shall take precedence.
3. An additional topographic survey and professional expertise may be used to more precisely locate the Floodline on specific properties.



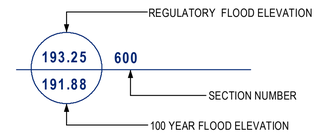
Collingwood

Floodlines - Silver and Townline Creek (Existing Condition)



Legend

- Rivers
- Road
- Contour
- Cross Sections
- Building Footprint
- 100 Year Floodline
- Timmins Floodline
- Property Parcels
- Lake Level



N
W E
S

Sheet: 4

1:2,000

Meters 0 20 40 80 120 160 200

Scale: 1 : 2,000
1 cm on the map represents 20 m on the ground

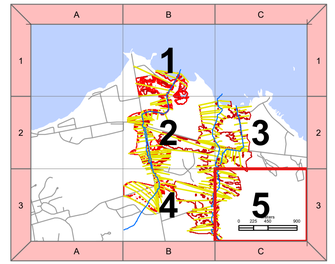
All measurements are in Metric.

Vertical Datum: Mean Sea Level (G.S.C.)
Horizontal Datum: North American Datum 1983 (NAD 83)
Projection: Universal Transverse Mercator
Zone: 17
Central Meridian: 81° West
Grid Spacing: 100 Meters

NOTES:
1. Floodlines were generated using a DEM derived from a LiDAR survey.
2. Where a discrepancy between the contours and the Floodlineis evident, the Floodline shall take precedence.
3. An additional topographic survey and professional expertise may be used to more precisely locate the Floodline on specific properties.

Collingwood

Floodlines - Silver and Townline Creek (Existing Condition)



Legend

- Rivers
- Road
- Contour
- Cross Sections
- Building Footprint
- 100 Year Floodline
- Timmins Floodline
- Property Parcels
- Lake Level

REGULATORY FLOOD ELEVATION
193.25 600
191.88
SECTION NUMBER
100 YEAR FLOOD ELEVATION

N
W E
S

Sheet: 5

1:2,000

Meters 0 20 40 80 120 160 200

Scale: 1 : 2,000
1 cm on the map represents 20 m on the ground

All measurements are in Metric.

Vertical Datum: Mean Sea Level (G.S.C.)
Horizontal Datum: North American Datum 1983 (NAD 83)
Projection: Universal Transverse Mercator
Zone: 17
Central Meridian: 81° West
Grid Spacing: 100 Meters

NOTES:
1. Floodlines were generated using a DEM derived from a LiDAR survey.
2. Where a discrepancy between the contours and the Floodlineis evident, the Floodline shall take precedence.
3. An additional topographic survey and professional expertise may be used to more precisely locate the Floodline on specific properties.