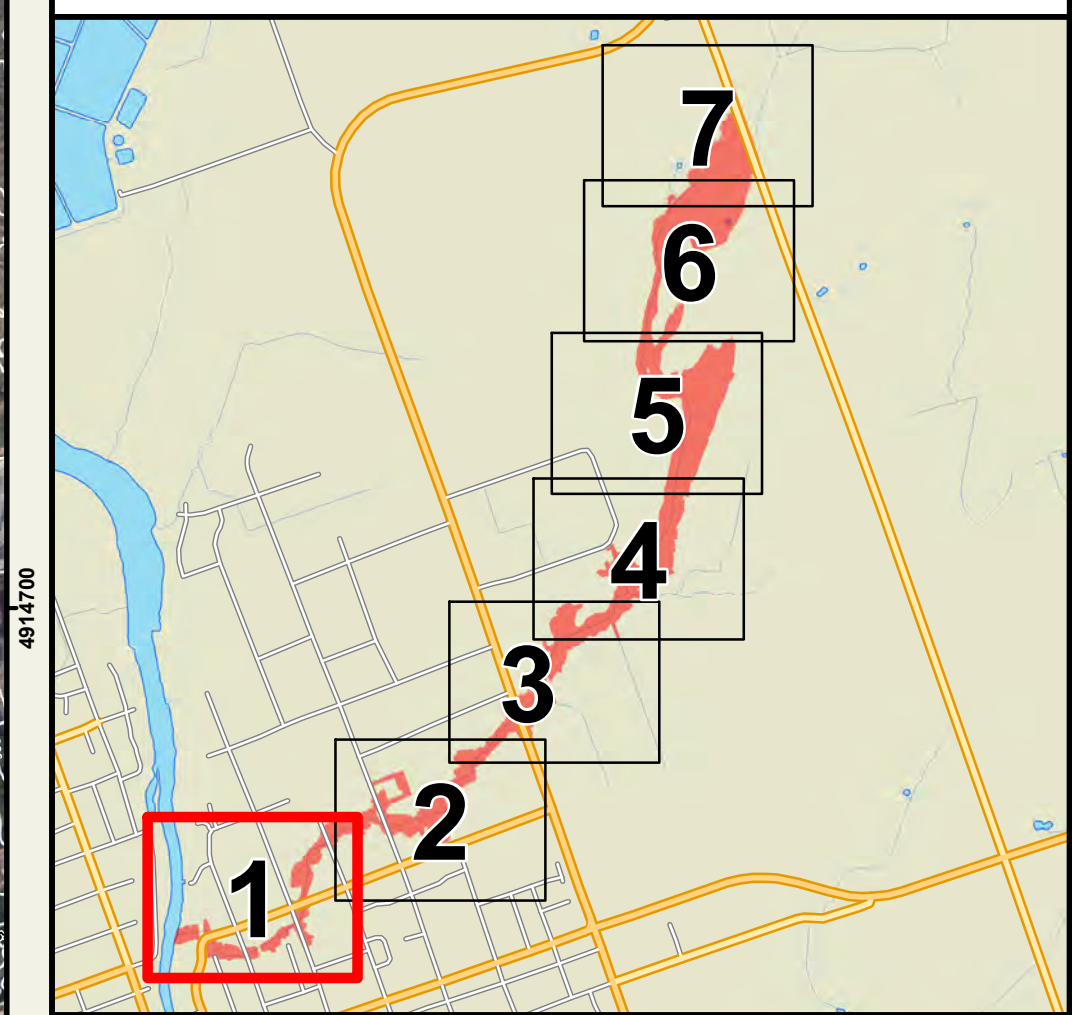


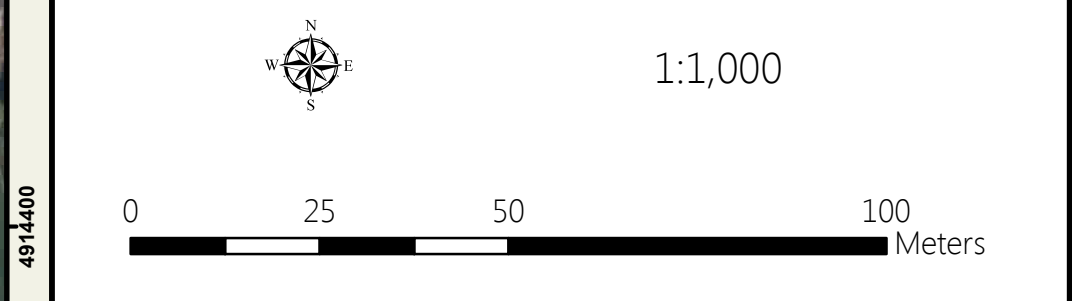
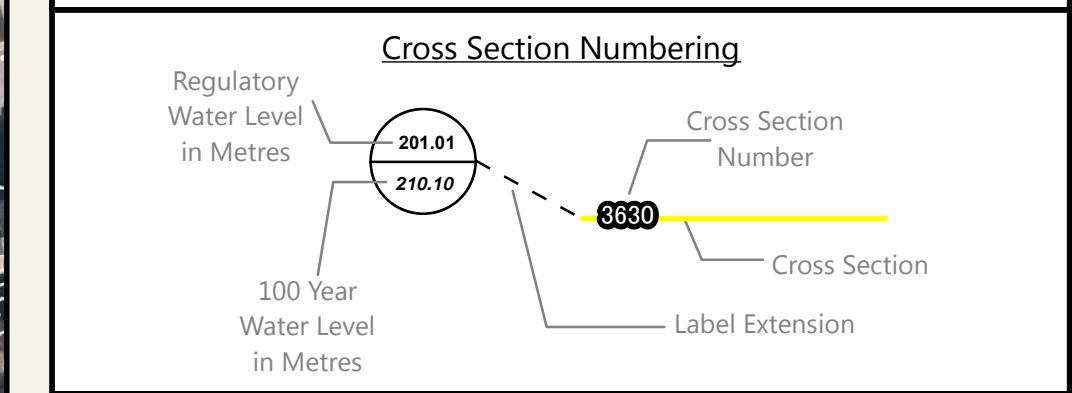
Sinister Creek  
Flood Plain Mapping  
City of Kawartha Lakes  
Printed: February 2016

- Legend**
- Main Channel
  - Cross Section
  - Spills
  - Flood Plain
  - 0.5 Metre Contour



- Notes:**
- 1) LIDAR (Light Detection and Ranging) survey data collected November 4th, 5th, 6th, and 7th, 2012 by Aero-Photo (1961) Inc.
  - 2) Contours produced by Kawartha Conservation GIS staff using LIDAR and GTFABS 2002 data.
  - 3) Field Survey of structures by Kawartha Conservation, using RTK GPS.
  - 4) Orthophotography (16cm) collected November 8th, 2012 Aero-Photo Inc. SCOP 2013 orthophotography was used to supplement 2012 orthophotography. SCOP 2013 Copyright Queen's Printer 2013.
  - 5) The flood inundation areas were delineated using the DEM derived from LIDAR by Kawartha Conservation's GIS department.
  - 6) Flood plain modeling was prepared by Kawartha Conservation's engineering department. Input parameters were extracted from base mapping prepared by Kawartha Conservation's GIS department.
  - 7) This map is prepared for use in conjunction with the Sinister Creek Flood Plain Mapping Study, 2015.

REVISIONS			
No.	Description	By	Date
1	Final Flood Plain Map	JB	FEB 2016




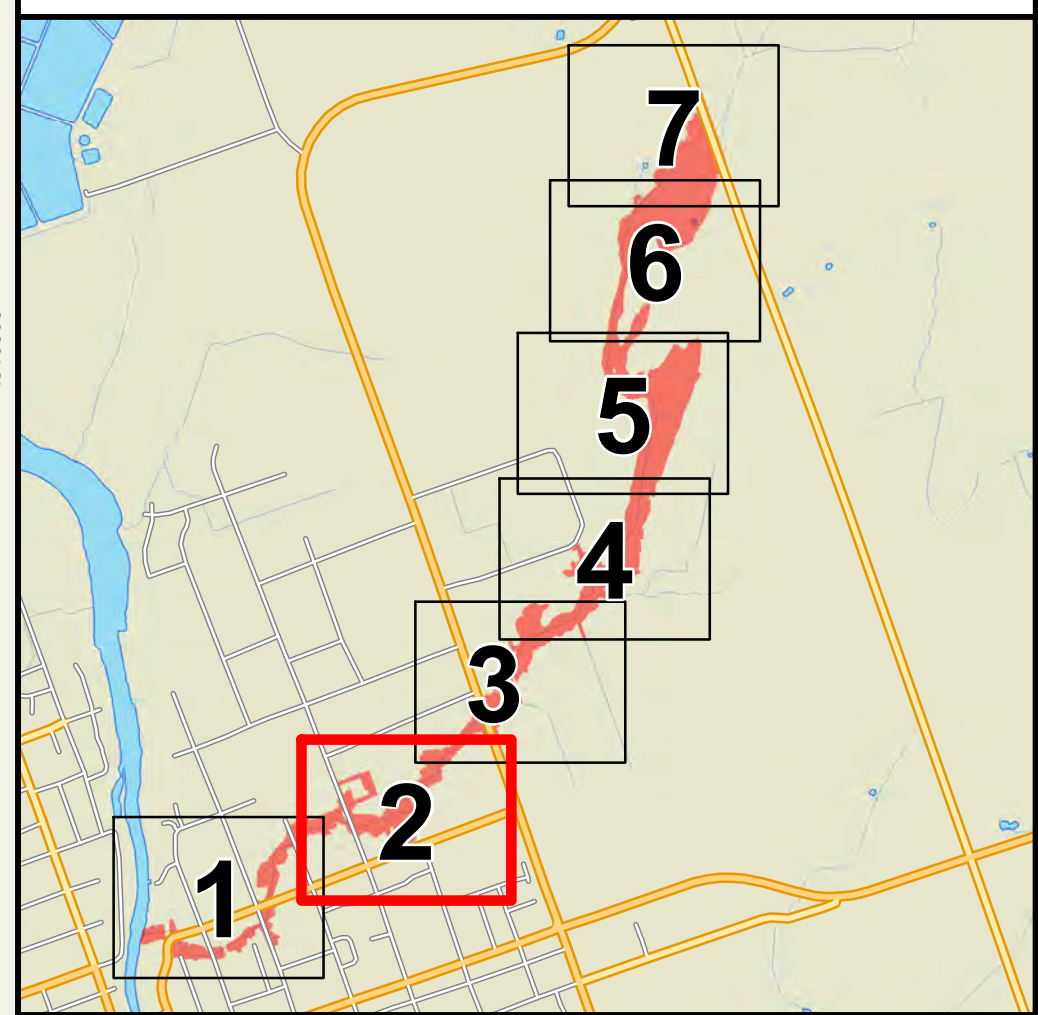
**MAP 1**



Sinister Creek  
Flood Plain Mapping  
City of Kawartha Lakes  
Printed: February 2016

**Legend**

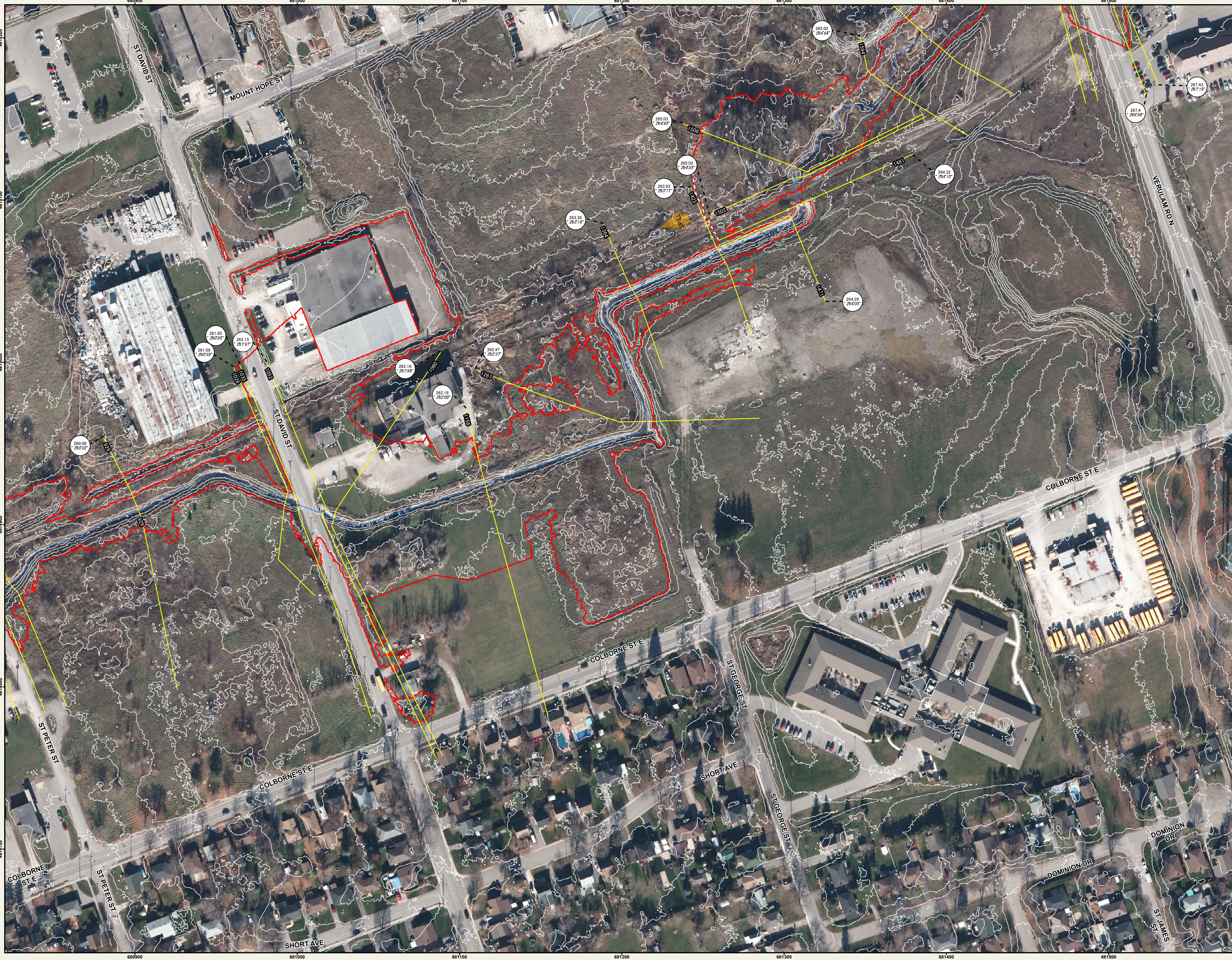
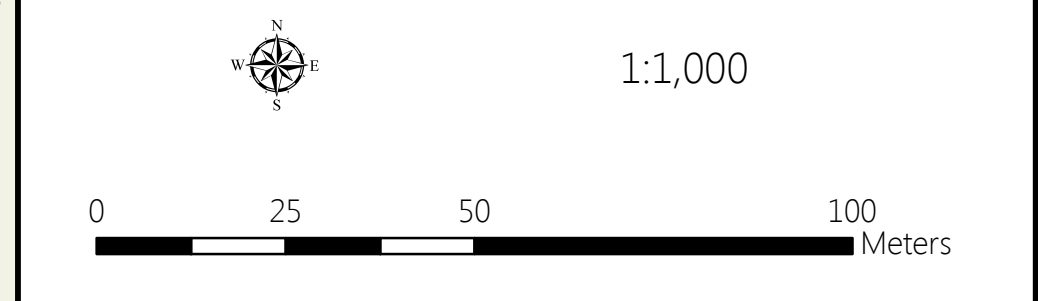
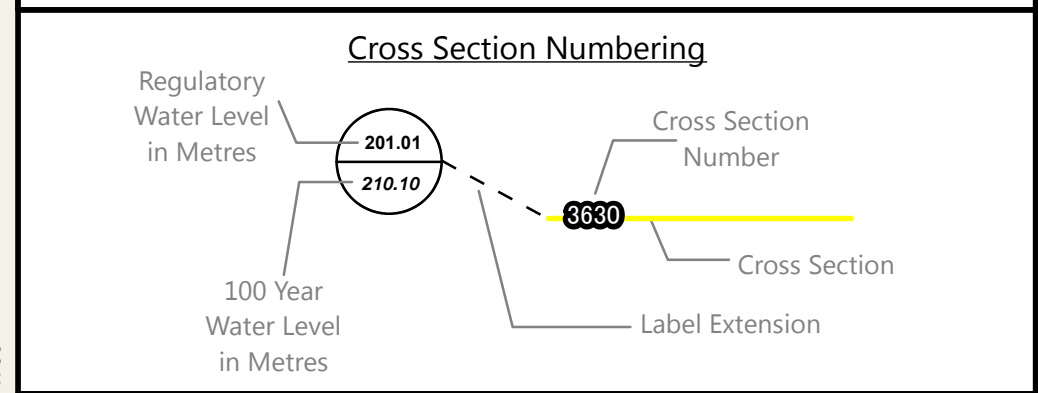
- Main Channel
- Cross Section
- Flood Plain
- 0.5 Metre Contour
-  Spills




**Notes:**

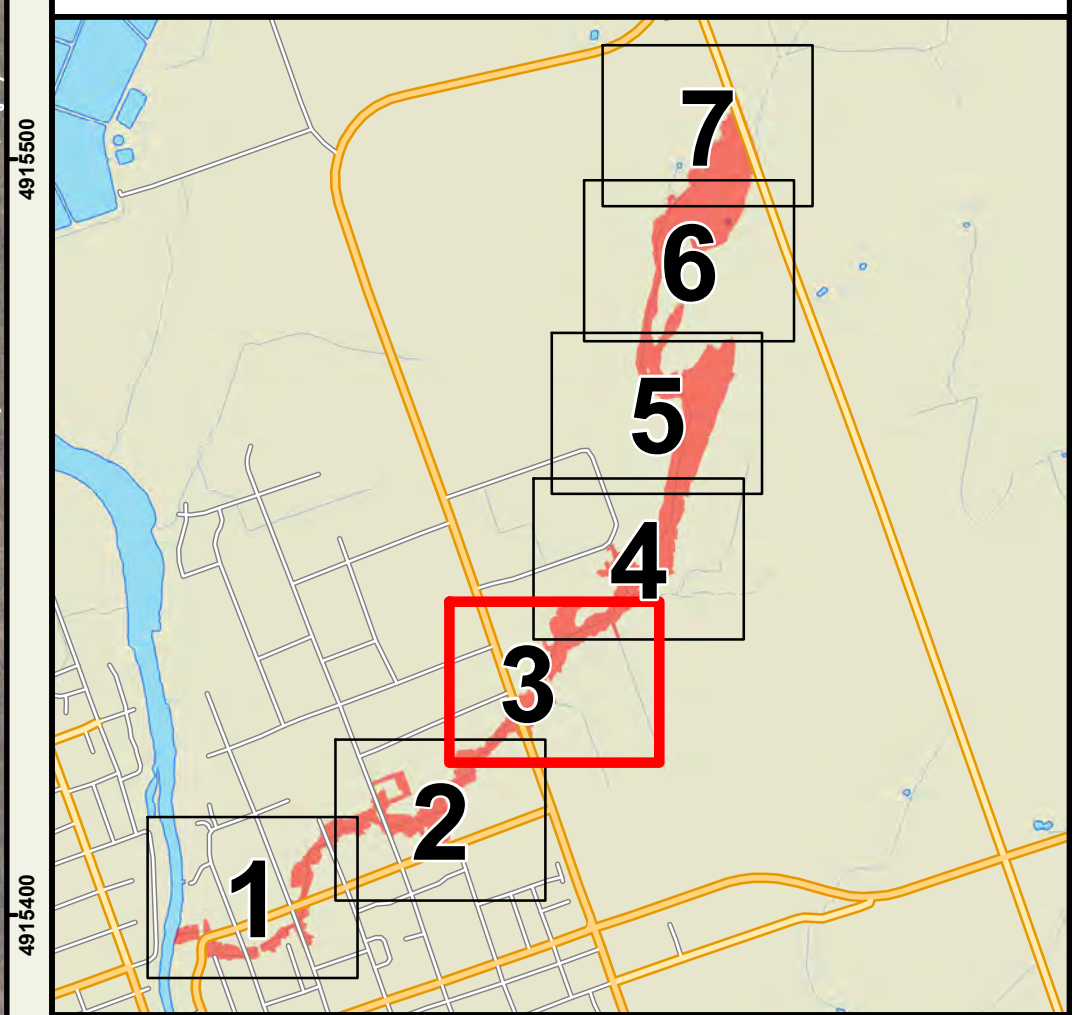
- 1) LIDAR Light Detection and Ranging survey data collected November 4th, 5th, 6th, and 7th, 2012 by Aero-Photo (P) Inc.
- 2) Contours produced by Kawartha Conservation GIS staff using LIDAR and GIBBS 2002 data.
- 3) Field Survey of structures by Kawartha Conservation, using RTK GPS.
- 4) Orthophotography (Aerial) collected November 4th, 2012 Aero-Photo Inc. SCDDP 2013 orthophotography was used to supplement 2012 orthophotography. SCDDP 2013 Copyright Queen's Printer 2013.
- 5) The flood inundation areas were delineated using the DEM derived from LIDAR by Kawartha Conservation's GIS department.
- 6) Flood plain modeling was prepared by Kawartha Conservation's engineering department. Input parameters were extracted from base mapping prepared by Kawartha Conservation's GIS department.
- 7) This map is prepared for use in conjunction with the Sinister Creek Flood Plain Mapping Study, 2015.
- 8) LIDAR data was replaced with site grading information at St. David and Colborne Street as per Cut and Fill Balance & SWM Design Brief for 77 St. David Street Storage Warehouse, prepared by C.C. Tatham & Associates Ltd. February 2013.

REVISIONS			
No.	Description	By	Date
1	Final Flood Plain Map	JB	Feb 2016



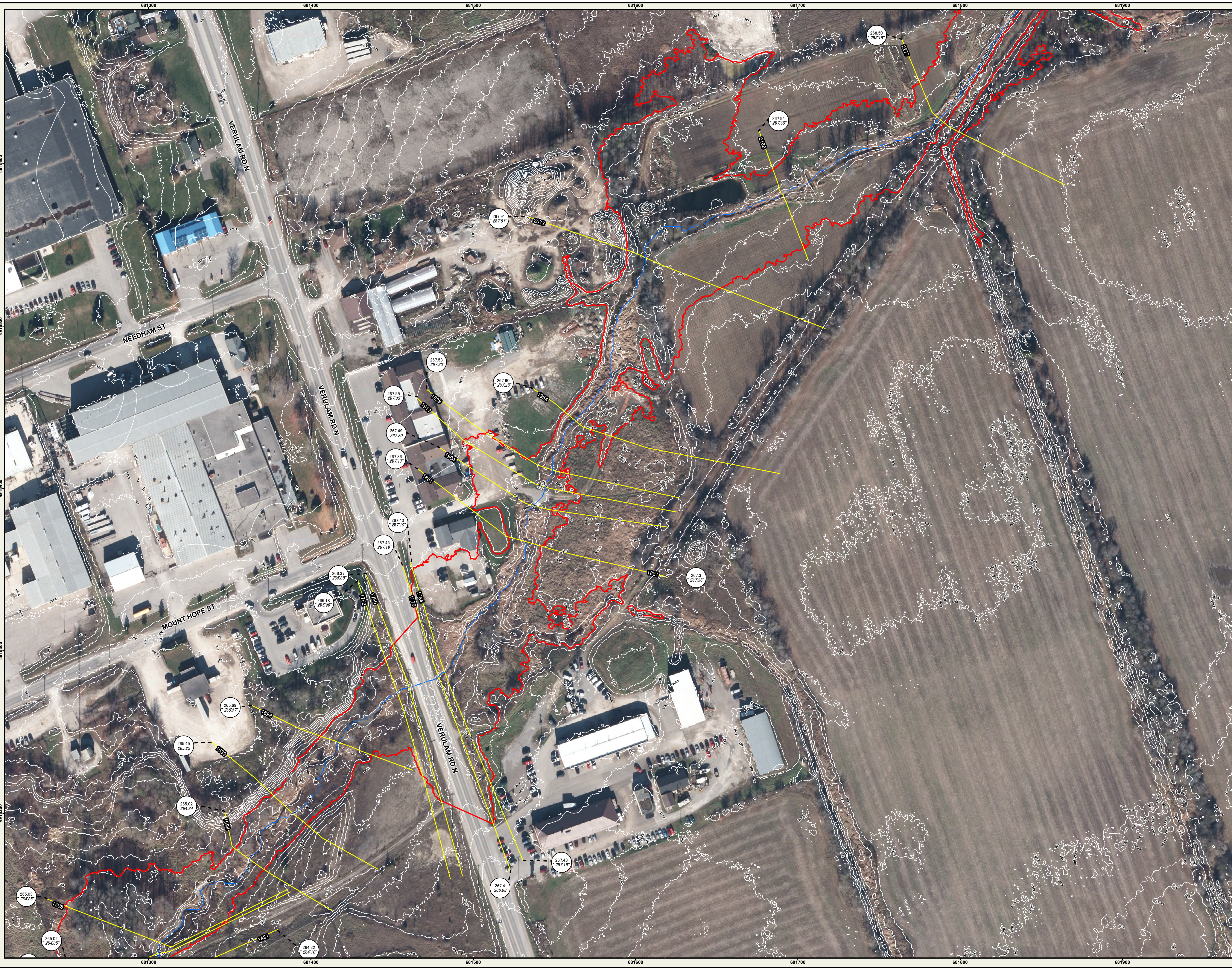
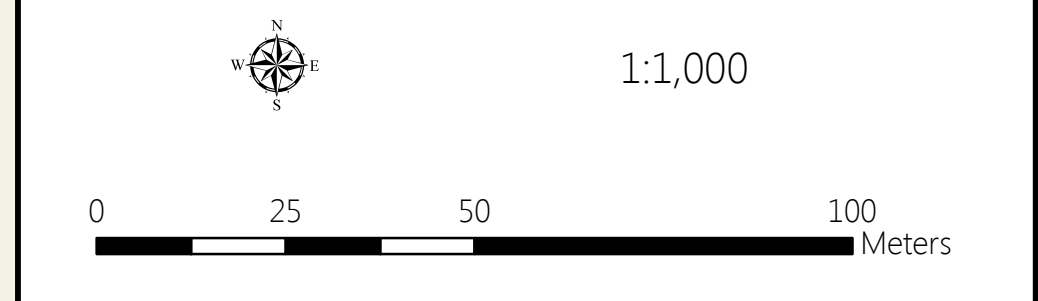
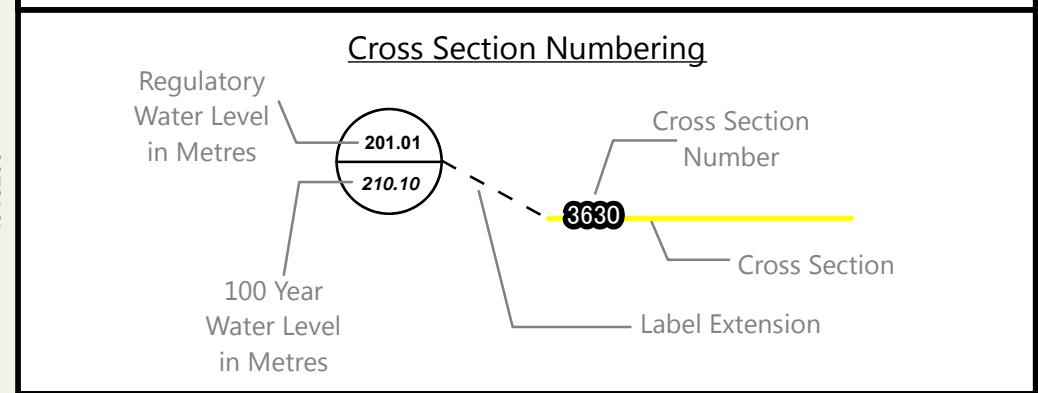
# Sinister Creek Flood Plain Mapping City of Kawartha Lakes Printed: February 2016

- Legend**
- Main Channel
  - Cross Section
  - Flood Plain
  - 0.5 Metre Contour
  -  Spills



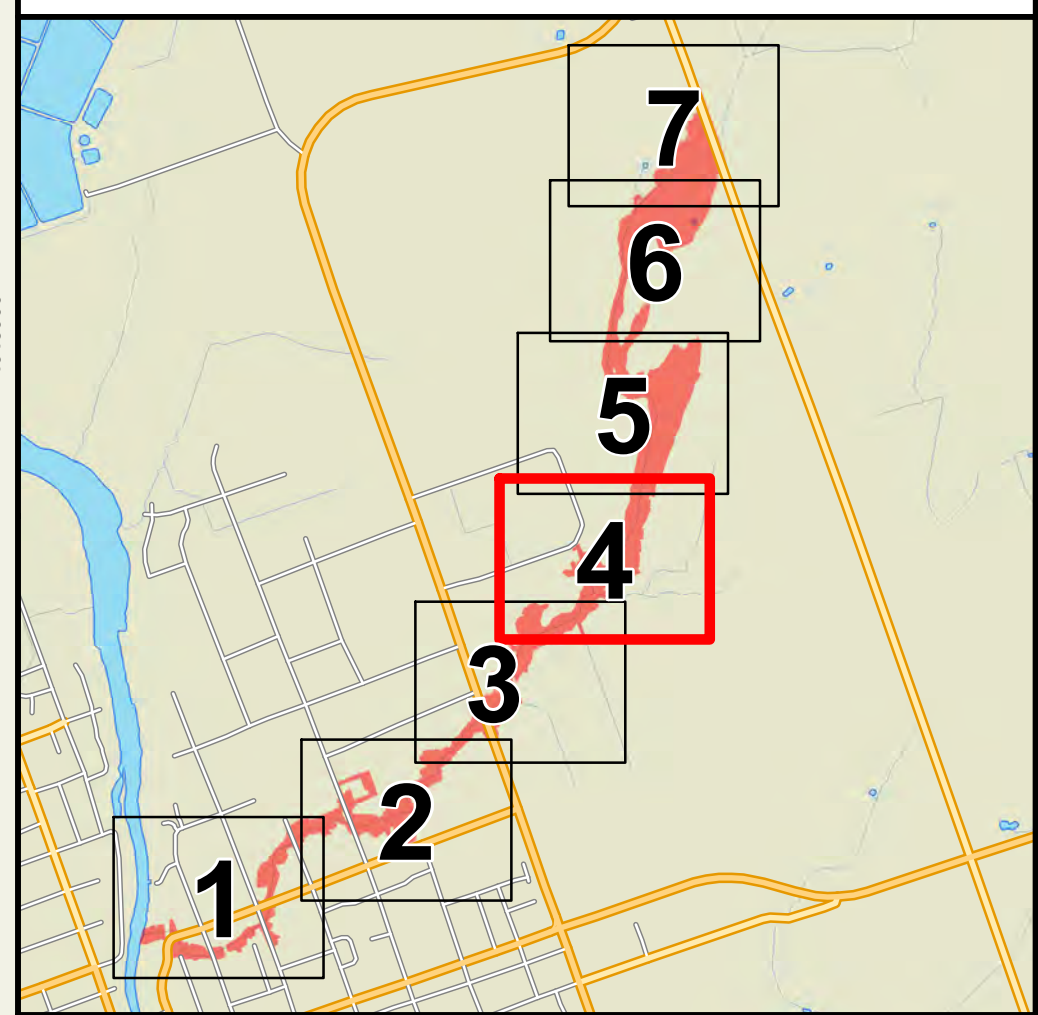
- Notes:**
- 1) LIDAR (Light Detection and Ranging) survey data collected November 4th, 5th, 6th, and 7th, 2012 by Aero-Photo (1961) Inc.
  - 2) Contours produced by Kawartha Conservation GIS staff using LIDAR and GTFBS 2002 data.
  - 3) Field Survey of structures by Kawartha Conservation, using RTK GPS.
  - 4) Orthophotography (15cm) collected November 8th, 2012 Aero-Photo Inc. SCOP 2013 orthophotography was used to supplement 2012 orthophotography. SCOP 2013 Copyright Queen's Printer 2013.
  - 5) The flood inundation areas were delineated using the DEM derived from LIDAR by Kawartha Conservation's GIS department.
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REVISIONS			
No.	Description	By	Date
1	Final Flood Plain Map	JB	Feb 2016



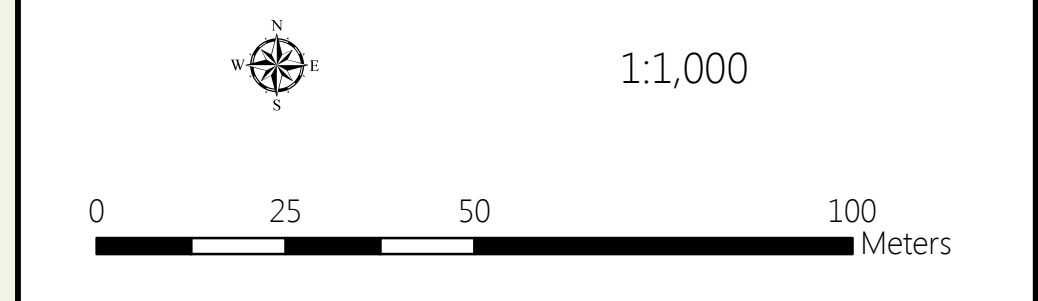
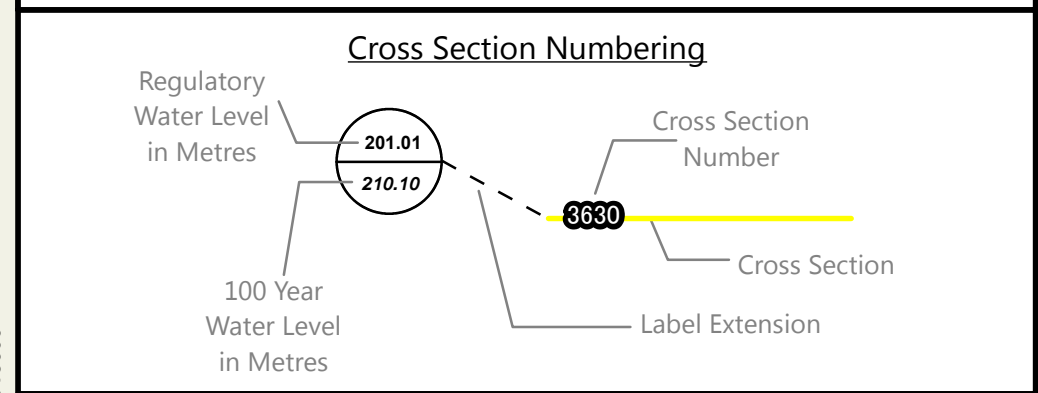
Sinister Creek  
Flood Plain Mapping  
City of Kawartha Lakes  
Printed: February 2016

- Legend**
- Main Channel
  - Cross Section
  - Flood Plain
  - Spills
  - 0.5 Metre Contour



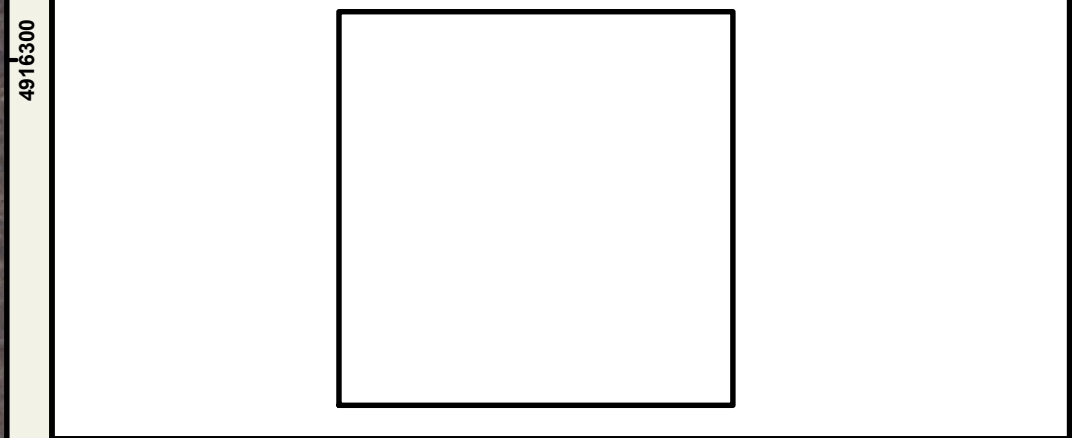
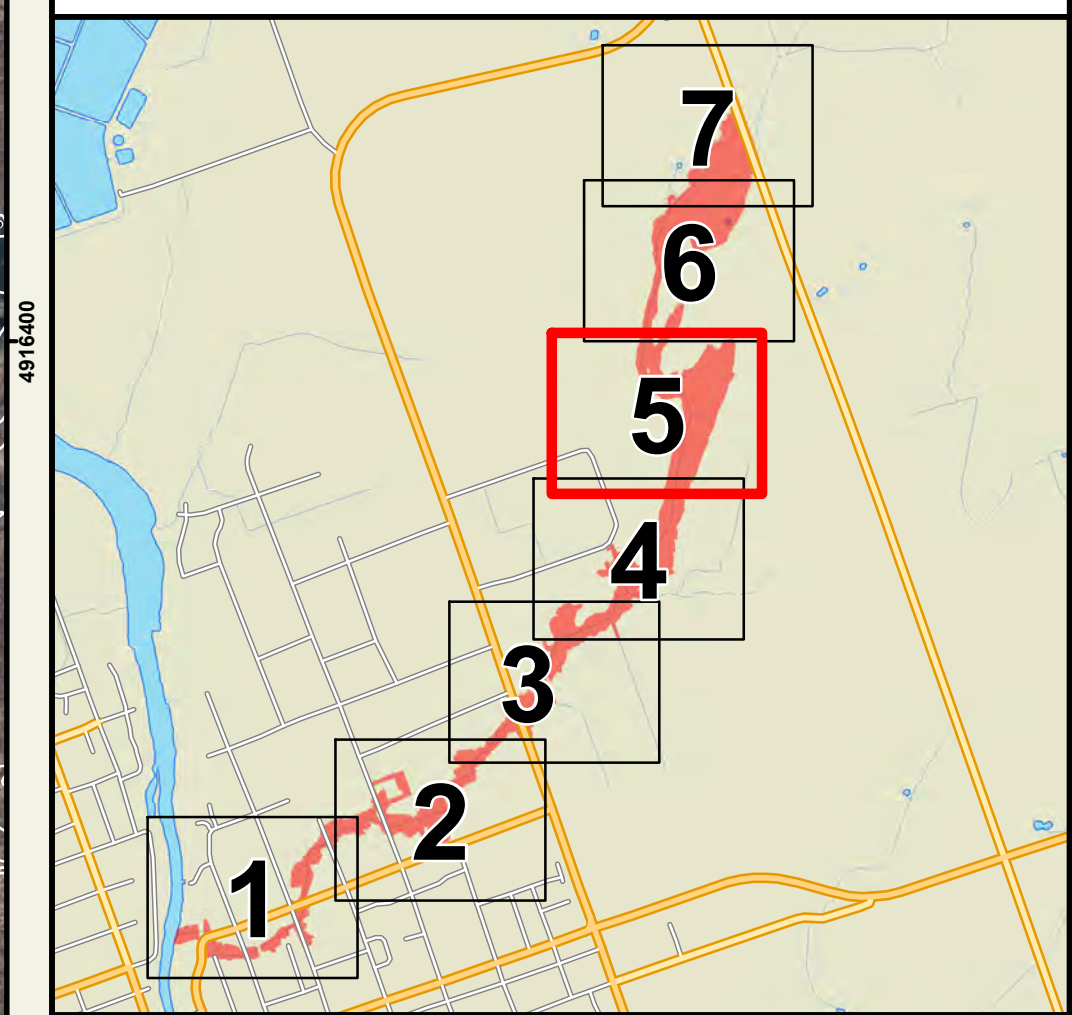
- Notes:**
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No.	Description	By	Date
1	Final Flood Plain Map	JB	Feb 2016



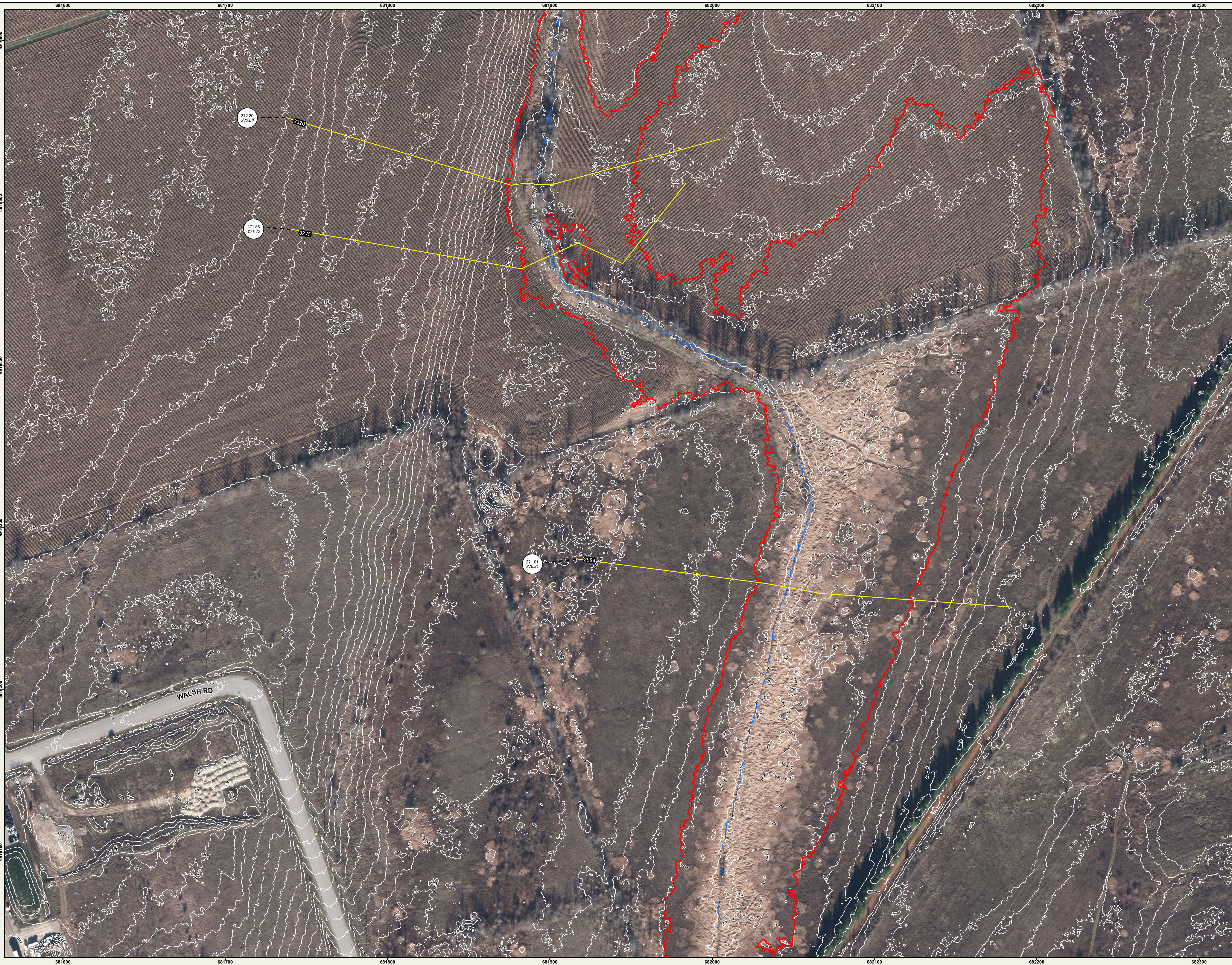
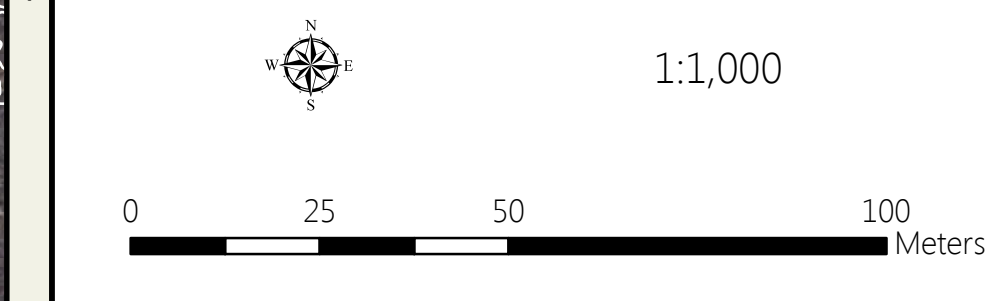
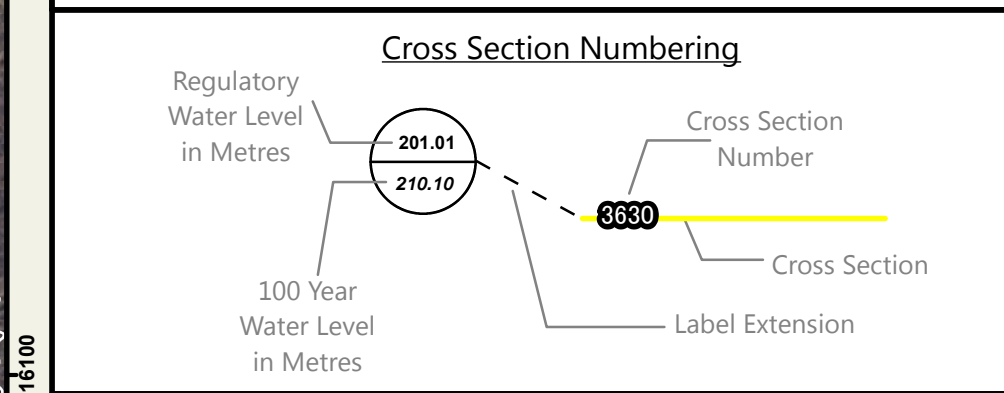
# Sinister Creek Flood Plain Mapping City of Kawartha Lakes Printed: February 2016

- Legend**
- Main Channel
  - Cross Section
  - Spills
  - Flood Plain
  - 0.5 Metre Contour



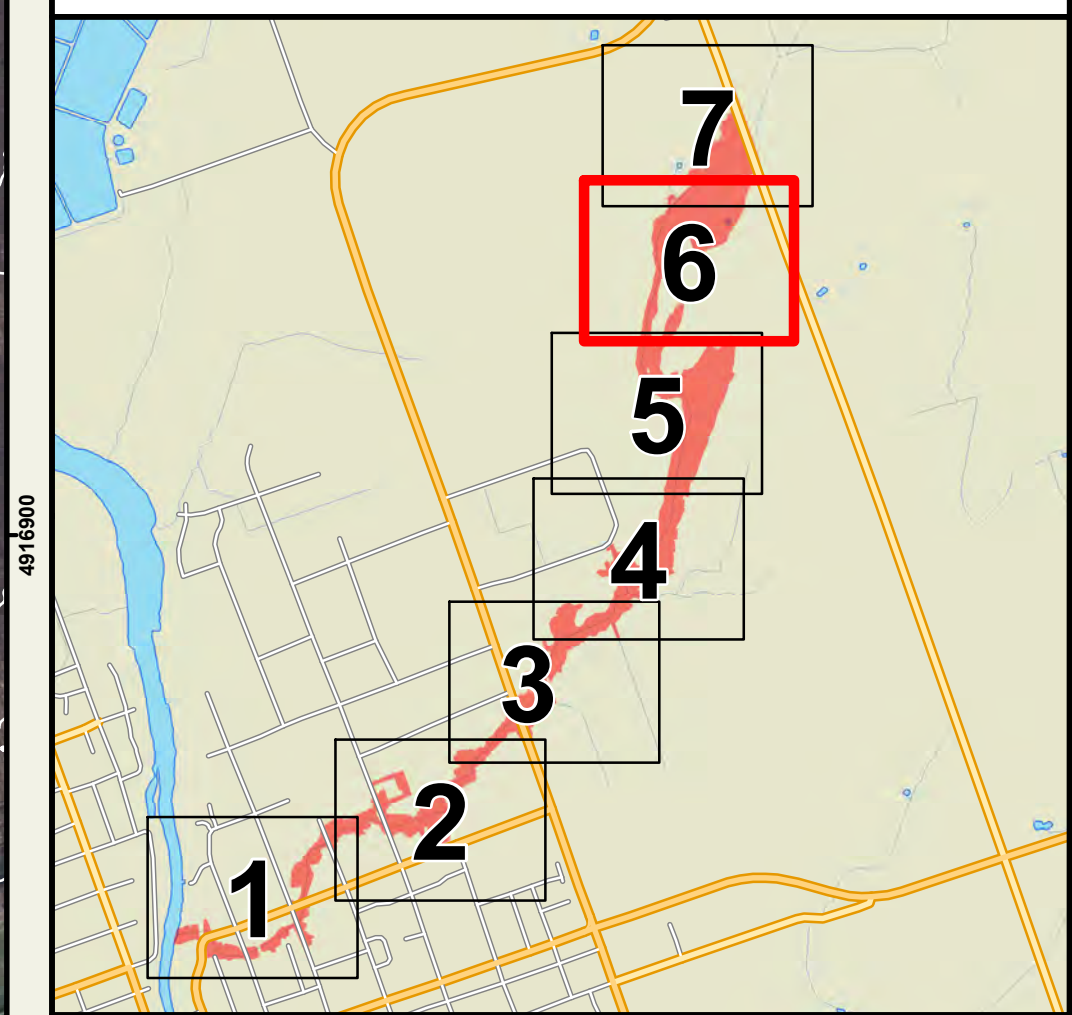
- Notes:**
- 1) LIDAR (Light Detection and Ranging) survey data collected November 4th, 5th, 6th, and 7th, 2012 by Aero-Photo (1961) Inc.
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1	Final Flood Plain Map	JB	Feb 2016



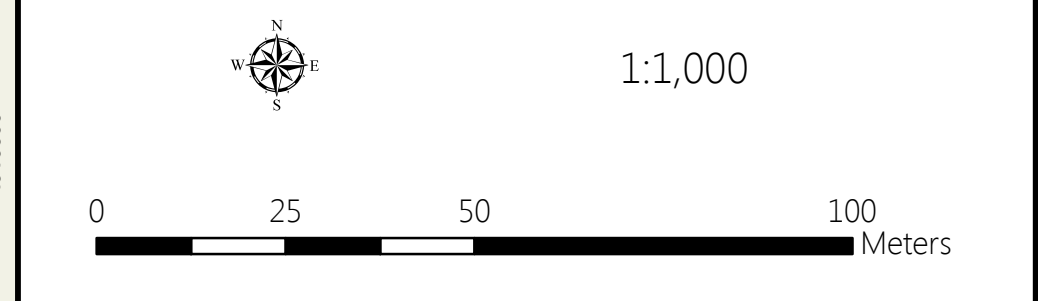
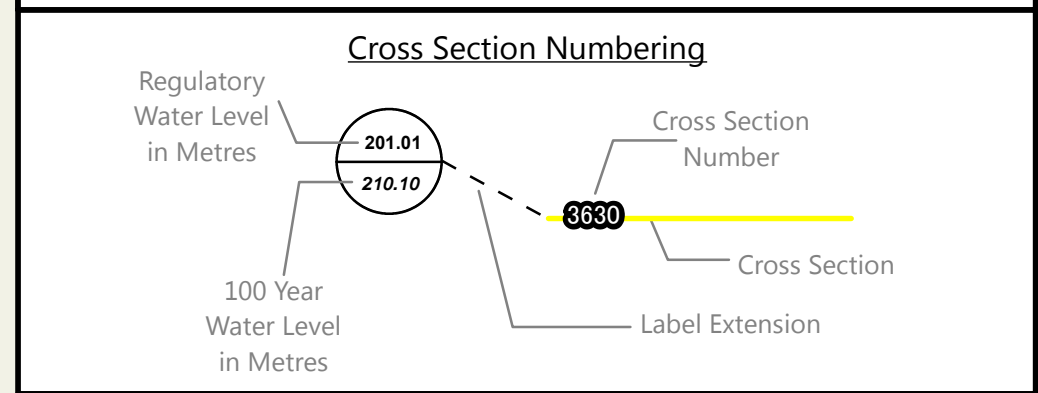
Sinister Creek  
Flood Plain Mapping  
City of Kawartha Lakes  
Printed: February 2016

- Legend**
- Main Channel
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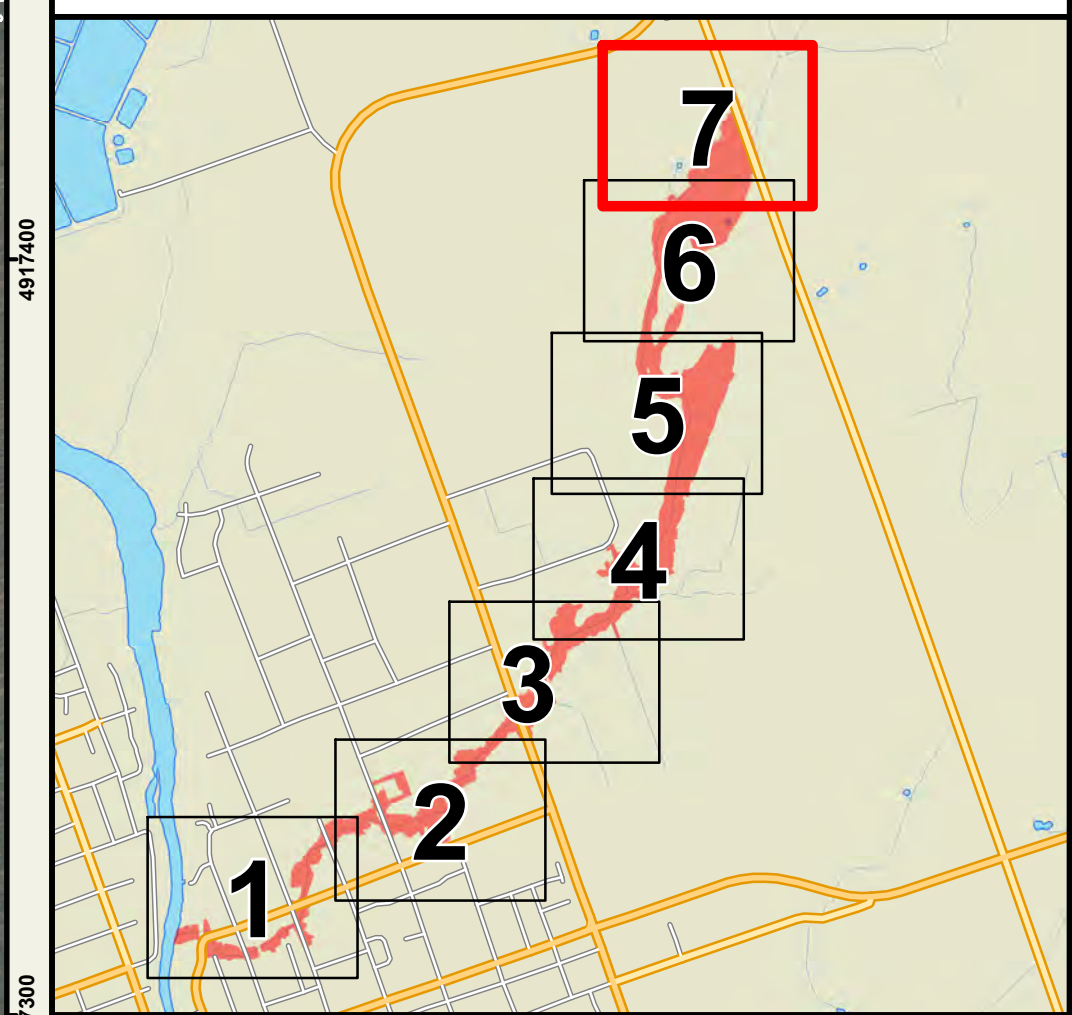
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- 1) LIDAR (Light Detection and Ranging) survey data collected November 4th, 5th, 6th, and 7th, 2012 by Aero-Photo (1961) Inc.
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