

FLOOD WARNING SYSTEM

2021

CROWE RIVER WATERSHED



For further information, please contact:

**Crowe Valley Conservation Authority
P.O. Box 416, 70 Hughes Lane
Marmora, Ontario
K0K 2M0**

Phone: 613-472-3137 Fax: 613-472-5516

**E-Mail: info@crowevalley.com
www.crowevalley.com**

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1.0 INTRODUCTION

Throughout the existence of the Crowe Valley Conservation Authority (CVCA), the Authority has been actively involved in water management and in particular, flood forecasting and warning. The Authority has installed 13 stream and lake level gauges to date, to monitor real time conditions in the watershed. As well, information related to flood forecasting is received from the Ministry of Natural Resources and Forestry in Peterborough, Ontario. The Authority also monitors precipitation, snow pack and advancing weather conditions.

Following severe flooding in 1976, flood plain mapping was produced and many areas that are susceptible to flood damage were identified.

The Authority is responsible for advanced warning and monitoring of flood situations; the individual municipalities are responsible for reacting to flood emergencies.

2.0 OBJECTIVES OF CVCA FLOOD WARNING SYSTEM

- To provide advice to local municipalities, the public and emergency response services regarding potential flooding, and to provide rapid warning if loss of life, injury or property damage may result.
- To provide continuous monitoring of flood conditions should a flood occur.

3.0 MANDATE OF THE CVCA

In the publication, "Planning for Flood Emergencies" prepared by the Ministry of Natural Resources and Forestry, it states that:

"It will be a function of Conservation Authorities to maintain a flood warning system throughout the Authority for alerting municipal representatives, media, local police, the Ontario Provincial Police, and the Ministry of Natural Resources and Forestry."

4.0 DAILY OPERATING PROCEDURES

4.1 Procedures for Recording Daily Water Levels

The CVCA, on a daily basis, downloads water levels and other pertinent information available at each gauge site. In normal conditions, these gauges are contacted a minimum of once per day, seven days a week. The gauges provide the current water levels and flow data as required.

The information obtained is compiled into a log book by the Duty Forecaster (see **Appendix 1**). The Duty Forecaster analyses the data and determines what, if any, further actions are required. These actions may consist of stop log adjustments being made at any or all of the individual dams under the Authority's jurisdiction. Further actions may be the issuance of watershed conditions or flood watch statements in extreme conditions; a flood warning will be issued to all parties listed in the CVCA'S Flood/Emergency Contact List.

The daily schedule for the Duty Forecaster is as follows:

- (1) Collect all the water levels, flow volumes, precipitation and temperatures throughout the watershed.
- (2) The Duty Forecaster will then contact the Ministry of Natural Resources and Forestry for Provincial weather conditions which may impact the CVCA watershed. Additional information may be received from the Provincial Surface Water Monitoring Centre.
- (3) With this data in hand, the Duty Forecaster will make a decision whether there is a need for stop log changes, or the issuance of a flood watch or flood warning statements.
- (4) Should the Duty Forecaster determine a flood watch or flood warning is necessary, he/she will advise both the General Manager and the Chair of the Authority that the agencies listed in the Flood/Emergency Contact List will be notified. Contact will be made by fax, e-mail or telephone, as the situation warrants.
- (5) Should no changes to log settings or bulletins be needed, the Duty Forecaster will continue with his/her regular daily duties; however, he/she will continue to monitor all incoming information and data throughout the remainder of the day.

4.2 Monthly Water Level Reports

For reference purposes, daily records are summarized into a "Monthly Water Level Report" which is distributed to member municipalities and other interested parties on a regular basis. This report indicates regulated winter and summer lake levels, minimum and maximum levels as well as the level on the last day of each month for each controlled lake and gauge site in the Crowe River Watershed. See **Appendix 2**.

5.0 RESPONSE TO FLOOD WARNING

It must be noted and understood that the responsibility to respond to a flood warning is that of the Municipality concerned. The Crowe Valley Conservation Authority will act in an ***advisory capacity*** but will not be responsible for flood fighting.

6.0 FLOODING REPORTED TO A MUNICIPALITY

If an incidence of flooding is reported to a Municipality, by anyone other than the Crowe Valley Conservation Authority (CVCA), the Municipality concerned will immediately contact the CVCA for confirmation and/or additional information. The CVCA will then revise and update its forecast accordingly and continue to monitor the reported flooding.

7.0 OFFICE HOURS DURING AN EMERGENCY

If a flood warning bulletin is about to be issued, the CVCA office will be staffed on a 24-hour basis from that moment. This will continue until the emergency has passed.

8.0 EMERGENCY SITUATIONS

A CVCA staff person will be "on call" during off hours and weekends. ***In an emergency situation only***, this person can be contacted via telephone at 613-968-0724. For a list of key CVCA contacts, refer to Section **12.1 Crowe Valley Conservation Authority** of this plan.

9.0 AMATEUR RADIO EMERGENCY SERVICE

The Quinte Amateur Radio Club, established under the auspices of The Radio Amateurs of Canada, has installed an antenna at the Crowe Valley Conservation Authority Administration Office in Marmora which can be utilized in an emergency situation.

The Radio Club can cover all Hospitals, Conservation Authorities, Town and City Halls, Police Stations, Red Cross offices and other sites as required. They are also able to make direct contact with any Government office in Toronto. Their mobile units are able to go to any site as required.

Please refer to **Appendix 3** for contact information.

10.0 FLOOD WARNING SYSTEM

The flood warning system of the Crowe Valley Conservation Authority will involve four basic areas of activity:

- 1) data collection and assessment;
- 2) issuing of statements;
- 3) assisting in the preparation of municipal flood contingency plans; and
- 4) regular review and updating of the system.

10.1 Data Collection and Assessment

The Crowe Valley Conservation Authority will be responsible for the collection of all data necessary to prepare appropriate messages regarding flooding. The collection of data and issuing of statements will be carried out at the CVCA Administration Office in Marmora.

10.2 Issuing of Watershed Messages

On completing an assessment of pertinent data, the Duty Forecaster will review it with the General Manager and an appropriate statement will be issued. Messages be one of four types, i.e.: (Water Safety or Flood Outlook) 1) normal, 2) watershed conditions (water safety or flood outlook), 3) flood watch or 4) flood warning. The Authority Chair will be advised immediately when a flood watch or flood warning message has been issued.

Communication of messages will normally be made by telephone, email and/or fax. However, information sheets regarding snow pack, lake levels and flows may also be circulated on an "as needed" basis.

All messages must be updated regularly and a final watershed conditions statement indicating that a crisis has ended must be issued.

10.2.1 Flood Watch Messages

Flood watch statements will be issued to Municipal Flood Co-ordinators when conditions are such that it may be necessary to implement a local flood contingency plan. Flood watch messages will not require action by the Municipal Flood Co-ordinator, i.e.: mobilization of manpower and equipment. They may, however, require a state of readiness to act.

10.2.2 Flood Warning Messages

Flood warning messages will be issued to all parties on the distribution list when conditions are such that public safety is at risk and property damage is likely to occur. Please refer to **Appendix 5**. Flood warning messages will require action from the Local Response Co-ordinator, i.e.: implementation of the local flood contingency plan.

10.3 Regular Review and Updating of the CVCA Flood Warning System

The CVCA Flood Warning Plan is reviewed and updated on a yearly or "as needed" basis. Agencies included in the mailing list are asked to notify the CVCA of any changes required. The CVCA will, in the early part of each year, issue current plans.

10.4 Assisting in the Preparation of Municipal Flood Contingency Plans

In order for Municipalities to carry out their responsibility to respond to flood emergencies, each Municipality should have some form of flood contingency plan. Assistance in preparation of contingency plans is available from the Crowe Valley Conservation Authority.

11.0 Flood Warning Telephone List

11.1 Crowe Valley Conservation Authority

Tim Pidduck,
General Manager/
Secretary Treasurer

Office: 613-472-3137
Fax: 613-472-5516
Home: 613-967-1322
Cell: 613-847-1912
Email: tim.pidduck@crowevalley.com

Emergency Only - Cellular Phone: 613-968-0724
(This cell number will contact one of the CVCA staff 24 hours a day 7 days a week during a flood warning)

Alternates

Catherine Redden
Authority Chair

CVCA Office: 613-472-3137
Home: 705-653-2046
Municipal Office: 705-653-1900
Cell: 705-653-2046
Email: catherine.redden@trenthills.ca
credden@reddens.ca

Janice MacKillican
Authority Vice-Chair

CVCA Office: 613-472-3137
Home: 613-966-8885
Municipal Office: 705-474-2863
Cell: 613-922-4940
Email: j.mackillican@township.limerick.on.ca

11.2 Dam Operators and Gauge Readers

Neil McConkey – Water Technician

Office: 613-472-3137
Fax: 613-472-5516
Home: 613-399-5693
Cell: 613-885-1979
Email: watertech@crowevalley.com

Andrew McIntyre – Acting Water Technician

Office: 613-472-3137
Fax: 613-472-5516
Cell: 613-847-0275
Email: andrew.mcintyre@crowevalley.com

Wray Price

Office: 613-472-3137
Fax: 613-472-5516
Email: watertech@crowevalley.com

Responsible for the operation of the following Dam structures:

- Allan Mills Dam
- Belmont Lake Dam
- Cordova Lake Dam
- Kasshabog Lake Dam
- Marmora Dam (Crowe Lake)
- Round Lake Dam
- Wollaston Lake Dam
- Paudash Lake Dam
- St. Ola Dam (Limerick Lake)
- Steenburg Lake Dam

Luke Hillyer (M.N.R.F., Bancroft District)

Responsible for the following Dams: all Dams within the Bancroft Area of Bancroft District

Cell: 613-202-1400
Fax: 613-332-0608
Home: 613-334-5930
Email: luke.hillyer@ontario.ca

Alternate Contact:

Suzy Shalla (M.N.R.F., Bancroft District A/District Manager)

Cell: 613-334-5054
Fax: 613-332-0608
Home: 613-637-1261
Email: suzy.shalla@ontario.ca

11.3 Ministry of Natural Resources and Forestry: Coordinator for Flood Emergencies

11.3.1 Ministry Emergency Operations Centre (MEOC)

- The MNRF Emergency Management Program has implemented a 24/7 Ministry Emergency Operation Centre Hotline. This number ensures contact with the MNRF MEOC through the Provincial Coordination Centre.
- A MNRF Provincial Emergency Response Coordinator (PERC) can be contacted at the number listed below. This telephone number will go to whoever is **PERC** at the time of the emergency.

PERC Hotline:	1-866-898-7372
Clerk Number:	1-705-945-5795
Switchboard Replacement:	1-705-945-5750
Fax Number:	1-705-945-5785

Ministry Emergency Operations Centre

Office: 705-945-5750

Fax: 705-945-5785

Clerk: 705-945-5795

Email: meoc-mail.mnr@ontario.ca

11.3.2 Surface Water Monitoring Centre - Contact Information & Provincial Emergency Response Coordinator

Contact Information for the Surface Water Monitoring Centre:

Mailing Address:

Surface Water Monitoring Centre
Ministry of Natural Resources
P.O. Box 7000
300 Water Street
5th Floor South
Peterborough, Ontario
K9J 8M5

Coordinator – Dave Burritt (705) 755-1215
Cell: (705)-927-2644
Email: daveburritt@ontario.ca

Daytime Phone: 705-755-5201 - SWMC duty officer desk

- Please use this number for flood forecasting/warning purposes

After Hours Duty Officer Cell Phone: 705-761-2044

- Please use this number for flood/warning purposes after regular business hours and weekends/holidays

Fax: 705-755-5038 Alternate Fax 705-755-5039

- Please use this number when issuing flood messages

Email for SWMC Duty Officer:

- surface.water@ontario.ca

11.4 Ministry of Natural Resources & Forestry - Local Response Coordinators

11.4.1 M.N.R.F. - Kingston

Contact: Hal Leadlay Office: 705-755-3363
District Manager Fax: 705-755-3125
Cell: 705-761-7395
Email: hal.leadlay@ontario.ca

Alternate: Andy Margetson Office: 613-531-5720
Fax: 613-531-5730
Cell: 613-583-0264
Email: andy.margetson@ontario.ca

11.4.2 M.N.R.F. - Bancroft

Luke Hillyer (M.N.R.F., Bancroft District)
IRM Technical Specialist
Responsible for all dams within the Bancroft Area of Bancroft District

Office: 613-332-3940 Ext 216
Cell: 613-202-1400
Fax: 613-332-0608
Home: 613-334-5930
Email: luke.hillyer@ontario.ca

Alternate Contacts:

Suzy Shalla (M.N.R.F., Bancroft District)
A/District Manager

Home: 613-637-1261
Fax: 613-332-0608
Cell: 613-334-5054
Email: suzy.shalla@ontario.ca

11.4.3 M.N.R.F. – Peterborough

Contact Hal Leadlay
District Manager

Office: 705-755-3363
Fax: 705-755-3125
Cell: 705-761-7395
Email: hal.leadlay@ontario.ca

Alternate: Deanna Cotter

Cell: 705-872-1924
Email: deanna.cotter@ontario.ca

11.5 Atmospheric Environment & Climate Change Canada Services

Environment and Climate Change Canada (Peterborough)
Climate Consultation Phone: 1-888-292-2222

Environment and Climate Change Canada
Marnie Consultation Phone: 1-844-505-2525
Climate Consultation Phone: 1-844-508-2626

Weather Consultation - Peterborough Phone: 705-743-5852
(Automated answering devise forecast)

Environment Canada - Trenton Phone: 613-392-0020
Canadian Forces Base Trenton
Weather Office Dial-A-Forecast
(Public weather recording)

12.0 Ontario Provincial Police

12.1 Ontario Provincial Police: Emergency Service

Province-wide Emergency Service

Ontario Provincial Police

Communications Centre

888-310-1122

888-310-1133 (TTY)

NOTE:

Some municipalities are now on the 9-1-1 emergency service.

12.2 Ontario Provincial Police: Local Detachments

Bancroft Detachment

Bancroft Detachment Admin. Centre 613-332-2112

Fax 613-332-5618

Northumberland Detachment

General Inquiries (Campbellford) 705-653-3300

Fax 705-653-5171

Peterborough County Detachment

General Inquiries 705-742-0401

Fax 705-742-9247

Haliburton Highlands Detachment

General Inquiries 705-286-1431

Fax 705-286-4532

Central Hastings Detachment

General Inquiries 613-473-4234

Fax 613-473-5029

East Region Headquarters

General Inquiries (Smith Falls) 613-285-2700

Fax 613-285-2796

13.0 Municipal Flood Co-Ordinators and Contacts

13.1 Township of North Kawartha

	<u>Residence</u>	<u>Business</u>	<u>Fax No.</u>	<u>Cellular</u>
Mayor - Carolyn Amyotte mayor@northkawartha.ca		1-800-755-6931 705-656-4445 Ext 258	705-656-4446 705-656-2676 (MOC)	705-931-1342
Chief Administrative Officer - Alana Solman Email: a.solman@northkawartha.ca	705-657-9564	1-800-755-6931 705-656-5192 Ext 236	705-656-4446 705-656-2676 (MOC)	705-931-1531
Road Supervisor- Corey Dunsby Email: c.dunsby@northkawartha.ca		1-800-755-6931 705-656-4445 Ext 243 705-656-4796	705-656-1836 705-656-2676 (MOC)	705-872-6015
Garage Answering/Paging Service 24/7 (Roads)		705-656-4796 (Garage Direct Line) Or 705-656-4445 Ext 243 705-926-0150 (24/7)		
Flood Emergency Contact - Community Emergency Management Co-ordinator Alana Solman, CEMC a.solman@northkawartha.on.ca	705-657-9564	1-800-755-6931 Ext 236 705-656-2676 (MOC) 705-656-5192	705-656-4446	705-931-1531
Fire Chief- Jesse Lambe j.lambe@northkawartha.ca	705-656-1224 (Direct Line)	1-800-755-6931 705-656-4445 Ext 221 705-656-1224	705-656-4446 705-656-4964 (Emergency Headquarters Fax)	705-931-1701

13.2 Municipality of Trent Hills

	<u>Residence</u>	<u>Business</u>	<u>Fax No.</u>	<u>Cellular</u>
Mayor - Bob Crate bob.crate@trenthills.ca	705-761-2278		705-653-5203	705-761-2278
Deputy Mayor - Micheal Metcalf micheal.metcalf@trenthills.ca			705-653-5203	905-269-7816
CAO - Lynn Phillips lynn.phillips@trenthills.ca	705-653-6016	705-653-1900 EXT 241	705-653-5203	705-632-9423
Fire Chief/Flood Coordinator/CEMC Tim Blake tim.blake@trenthills.ca	705-653-2408	705-653-1900 EXT 222	705-653-5203	705-653-6194
Flood Coordinator - Alternate Jim Peters jim.peters@trenthills.ca	613-481-6022	705-653-1900 EXT 234	705-653-5203	705-653-6070
Alternative CEMC Shawn Jamieson shawn.jamieson@trenthills.ca			(pager)705-745-5757 ID#608	705-632-8933
Director of Legislative Services/Clerk Doug Irwin doug.irwin@trenthills.ca		705-653-1900 EXT 240	705-653-5203	705-653-6177
Community Development Officer Kira Mees kira.mees@trenthills.ca		705-653-1900 EXT 239	705-653-5203	705-653-6363

13.3 Municipality of Highlands East

	<u>Residence</u>	<u>Business</u>	<u>Fax No.</u>	<u>Cellular</u>
Mayor - Dave Burton dburton@highlandseast.ca	705-448-9355	705-448-2981	705-448-1027	613-334-9678
CAO/Treasurer- Shannon Hunter Alternate CEMC shunter@highlandseast.ca		705-448-2981 Ext 431	705-448-2532	705-935-8880
Roads Superintendent- Earl Covert, CRSI ecovert@highlandseast.ca	705-448-2254	705-448-2934	705-448-1027	613-334-1300
Flood Emergency Contact - Stewart Hurd shurd@highlandseast.ca	705-879-9893	613-339-2442	613-339-1028	613-334-0994
Fire Chief Chris Baughman Primary CEMC cbaughman@highlandseast.ca	613-334-6236	705-448-2981 Ext 428	705-448-1027	705-455-2747
Clerk Robyn Rogers Alternate CEMC rrogers@highlandseast.ca	613-334-8099	705-448-2981 Ext 422	705-448-1027	

13.4 Township of Faraday

	<u>Residence</u>	<u>Business</u>	<u>Fax No.</u>	<u>Cellular</u>
Mayor - Dennis Purcell djpurcell@faraday.ca	613-332-4197	613-332-3638	613-332-3006	
Clerk – Treasurer & Tax Collector Dawn Switzer d.switzer@faraday.ca	613-332-2620	613-332-3638	613-332-3006	
Road Supervisor - Scott Laundry s.laundry@faraday.ca	613-332-5156	613-332-1935	613-332-3006	
Flood Emergency Contact - Scott Laundry s.laundry@faraday.ca	613-332-5156	613-332-1935	613-332-3006	
Alternate - Dawn Switzer d.switzer@faraday.ca	613-332-2620	613-332-3638	613-332-3006	

13.5 Township of Havelock-Belmont-Methuen

	<u>Residence</u>	<u>Business</u>	<u>Fax No.</u>	<u>Cellular</u>
Mayor - Jim Martin jmartin@hbmtp.ca	705-778-3764	705-778-2308 EXT 225	705-778-5248	705-749-7676
Acting Chief Administrative Officer Bob Angione bangione@hbmtp.ca	705-750-0103	705-778-2308 EXT 226 877-767-2795	705-778-5248	705-313-3900
Manager of Public Works Peter Lauesen plauesen@hbmtp.ca		705-778-2481	705-778-5248	705-761-0780
Flood Emergency Contact - Mayor - Jim Martin jmartin@hbmtp.ca	705-778-3764	705-778-2308 EXT 225	705-778-5248	705-749-7676
Alternate - Acting Chief Administrative Officer Bob Angione bangione@hbmtp.ca	705-750-0103	705-778-2308 EXT 226 877-767-2795	705-778-5248	705-313-3900
Fire Chief - Ray Haines rhaines@hbmtp.ca	705-778-7040	705-778-3183	705-778-3415	705-930-4471
Administrative Assistant Margaret Orendt morendt@hbmtp.ca		705-778-2308 EXT 221	705-778-2308	905-396-6070

13.6 Township of Limerick

	<u>Residence</u>	<u>Business</u>	<u>Fax No.</u>	<u>Cellular</u>
Mayor Carl Stefanski c.stefanski@township.limerick.on.ca	613-474-1284	613-474-2863	905-898-1836	647-268-2620
CAO/Clerk-Treasurer Victoria Tisdale clerk@township.limerick.on.ca		613-474-2863	613-474-0478	613-334-2725
Public Works Supervisor Darren Naulls roads@township.limerick.on.ca		613-474-2863 EXT 204	613-474-0478	613-318-9928
Flood Emergency Contact Darren Naulls roads@township.limerick.on.ca		613-474-2863 EXT 204	613-474-0478	613-318-9928

13.7 Municipality of Marmora & Lake

	<u>Residence</u>	<u>Business</u>	<u>Fax No.</u>	<u>Cellular</u>
Mayor - Jan O'Neill joneill@marmoraandlake.ca		613-472-2629 Ext 2226	613-472-5330	613-847-2430
CAO & Municipal Clerk– Tonia Bennett tbennett@marmoraandlake.ca		613-472-2629 Ext 2221	613-472-5330	613-922-2947
Deputy Clerk- Jennifer Bennett jbennett@marmoraandlake.ca		613-472-2629 Ext 2232	613-472-5330	613-920-0563
Manager of Transportation Services- Dylan Adams dadams@marmoraandlake.ca		613-472-6940	613-472-2232	
Flood Emergency Contact - Tony Brownson tbrownson@marmoraandlake.ca		613-472-2748		613-921-6117
Alternate- CAO Tonia Bennett tbennett@marmoraandlake.ca		613-472-2629 Ext 2221	613-472-5330	613-922-2947

13.8 Corporation of the Township of Stirling-Rawdon

	<u>Residence</u>	<u>Business</u>	<u>Fax No.</u>	<u>Cellular</u>
Mayor Bob Mullins mayor@stirling-rawdon.com	613-395-4695	613-395-3346	613-395-0864	613-438-0402
Alternate Deputy Mayor Grant Hagerman deputy-mayor@stirling-rawdon.com	613-395-3541		613-395-0864	613-922-3541
Clerk Kathy Pearl clerk@stirling-rawdon.com	705-434-7817	613-395-3380 EXT 2234	613-395-0864	613-848-9995
Treasurer/ CAO Roxanne Hearn cao-treasurer@stirling-rawdon.com	613-395-1583 OR 613-921-6936	613-395-3380 EXT 2222	613-395-0864	613-849-4762
Public Works Manager George Burkitt superintendent@stirling-rawdon.com	613-920-2877	613-395-3380 EXT 2227	613-395-0864	613-847-5654
Working Foreman Alternate Dave Ray	613-922-3625	Stirling 613-395-1241 Springbrook 613-395-3223	613-395-0864	613-967-7225
Flood Emergency Contact Fire Chief/CEMC (C/S Stirling Rawdon 1) Derrick Little	613-921-8152	613-395-0214	613-395-0864	613-921-8152
Alternate/CEMC (C/S Stirling Rawdon 2) Gerry Buss	613-395-6082	613-771-9366 EXT229	613-395-0864	613-847-6909

13.9 Townships of Tudor & Cashel

	<u>Residence</u>	<u>Business</u>	<u>Fax No.</u>	<u>Cellular</u>
Mayor - Libby Clarke mayor@tudorandcashel.com	613-334-0620	613-474-2583	613-474-0664	613-318-8201
Chief Administrative Officer - Nancy Carol clerk@tudorandcashel.com	613-474-1212	613-474-2583	613-474-0664	613-334-2583
Road Superintendent- Glenn Hagerman roads@tudorandcashel.com	613-922-0247	613-474-2798	613-474-0664	613-334-5694
Deputy Clerk/Administrative Assistant Flood Contact Sheryl Scott admin@tudorandcashel.com		613-474-2583	613-474-0664	613-318-8234

13.10 Township of Wollaston

	<u>Residence</u>	<u>Business</u>	<u>Fax No.</u>	<u>Cellular</u>
Mayor - Lynn Kruger lkruger@wollaston.ca			613-337-5789	613-334-6126
Administrator/Clerk Bernice Crocker clerk@wollaston.ca		613-337-5731	613-337-5789	
Lead Hand in Roads- Jack Ingram	613-337-5505	613-337-5731	613-337-5789	613-334-0196
Roads Superintendent - Kirk McCaw kmccaw@wollaston.ca	613-337-5759	613-337-5731	613-337-5789	613-334-2684
Alternate – Treasurer Tracy Vader tvader@wollaston.ca		613-337-5731	613-337-5789	
CEMC- Greg Maxwell cemc@wollaston.ca	613-332-2123	613-337-5731	613-337-5789	613-318-8963

14.0 Trent Severn Waterway

14.1 Headquarters: Peterborough, Ontario (705-750-4902)

Primary Contact Anna Ciorap Acting Water Management Engineer	Office: 705-750-4932 Cell: 705-761-7275 Email: anna.ciorap@pc.gc.ca
Secondary Contact Chad Buchner Director of Canal Operations	Office: 705-750-4902 Fax: 705-750-4934 Cell: 705-313-1469 Email: chad.buchner@pc.gc.ca
Secondary Contact Karl Ellis Sector Manager	Office: 705-653-3240 Cell: 613-242-4305 Email: karl.ellis@pc.gc.ca
Secondary Contact Karen Feeley Public Relations and Communications Officer	Office: 705-750-4930 Fax: 705-750-4934 Cell: 705-313-1097 Email: karen.feeley@canada.ca
Flood Warning Email	ont.trentsevern@pc.gc.ca

14.2 Campbellford Sector (Hastings, Dam #15 to Meyers Dam #8) & Trenton Sector (Dam #7 – Glen Ross to Trenton Dam #1)

Primary Contact Karl Ellis Sector Manager	Office: 705-653-3240 Cell: 613-242-4305 Email: karl.ellis@pc.gc.ca
Secondary Contact Anna Ciorap Acting Water Management Engineer	Office: 705-750-4932 Cell: 705-761-7275 Email: anna.ciorap@pc.gc.ca
Secondary Contact Chad Buchner Director of Canal Operations	Office: 705-750-4902 Fax: 705-750-4934 Cell: 705-313-1469 Email: chad.buchner@pc.gc.ca

15.0 Media

15.1 Media - Radio/Television

	<u>Office</u>	<u>Fax No.</u>
CKOL 93.7 FM Campbellford /100.7 FM Madoc Radio/Trent Valley Broad. P.O. Box 551, 15 Reglan St. S. Campbellford, K0L 1L0 David Lockwood ckol-radio@bell.net	705-653-1089	705-653-1089
Corus Entertainment 100.5 Fresh Radio, 743 Monaghan Rd, Peterborough, ON., K9J 5K2 Main Office Newsroom newswatchradio@corusent.com	705-742-0451 705-742-0875	705-742-7274
Corus Entertainment The Wolf 101.5 CKWF-FM Radio, 743 Monaghan Rd, Peterborough, ON., K9J 5K2 Main Office Studio Line Newsroom *1015 from Bell Mobility newswatchradio@corusent.com	705-742-0451 705-740-9653 705-742-0875	705-742-7274
CHEX Television, 743 Monaghan Rd, Peterborough, ON., K9J 5K2 Switchboard TDD No. CHEX Television - "Newsroom" *111 from Bell Mobility newswatch@chextv.com	705-742-0451 705-749-2179 705-742-8712	705-742-7274 705-742-2930
MOVE 99.7 Radio, P.O. Box 177, 59 George St. N., Peterborough, ON., K9J 6Y8 Information In Studio *9970 on Bell Mobility kawarthanews@bellmedia.ca	705-742-8844 705-743-9970	705-742-1417
CKQM-FM Radio, P.O.Box 177, 59 George St. N., Peterborough, ON., K9J 6Y8 Country 105 Information In Studio kawarthanews@bellmedia.ca	705-742-8844 705-876-1051 country105@bellmedia.ca	705-742-1417
CJBQ Radio 800 AM, P.O. Box 488, 10 South Front St., Belleville, ON., K8N 5B2 Information Direct to News Room	613-969-5555 613-968-5803	613-969-8122
Mix 97 Quinte Broadcasting, P.O. Box 488, 10 South Front St., Belleville, ON., K8N 5B2 Information News Room	613-969-5555 613-968-5803	613-969-8122
Classic Hits 95.5 (FM Radio), 497 Dundas St. W., Belleville, ON., K8P 1B6 Main Line Emergency Calls: *955 from Bell Mobility or paulm@cool100.ca	613-966-0955 613-966-3125	613-967-2565
Moose FM 30674 Highway 28E, Bancroft, ON K0L 1C0 Studio Line	613-332-1423	

15.2 Media – Newspaper

Office:

Fax No.

Belleville Intelligencer, 118 - 199 Front St., Belleville, ON., K8N 5H5
Information 613-962-9171 613-962-9652
Toll Free 1-866-511-1963
bmvicar@postmedia.ca

Community Press, 199 Front St., Suite 118, Belleville, ON., K8N 5H5
Information 613-962-9171 613-962-9652
bmvicar@postmedia.ca

The Bancroft Times, 93 Hastings N., Bancroft, ON., K0L 1C0
613-332-2300 or 613-332-4887
613-332-1894
bancroft-times@sympatico.ca
www.thebancrofttimes.ca

Peterborough Examiner, c/o Package Plus Inc. 171A Rink St., Suite 125,
Peterborough, ON., K9H 1G5
Information 705-745-4641 705-745-3361
Kennedy.gordon@peterboroughdaily.com
news@peterboroughdaily.com

APPENDIX 1 - FLOOD FORECAST CENTRE - DAILY REPORT EXAMPLE

FLOOD FORECAST CENTRE – DAILY REPORT

DATE: Jan-26-2021

TIME: 0800

DUTY FORECASTER: A.M.

4 HOUR TREND	GAUGE SITE	PRESENT LEVEL	PRESENT FLOW (m 3/s)	TEMPERATURE °C		PRECIP (mm)	REGULATED LEVELS		100 Year Elevation
				MAX	MIN		SUMMER	WINTER	
	MARMORA FLOW	10.471	21.6						
	BEAVER CREEK	9.355	5.96						
	GLEN ALDA FLOW	12.621	6.41						
	PAUDASH LAKE	342.131				3.0	342.31	342.02	342.80
	BELMONT LAKE	186.802					187.09	186.66	188.80
	CROWE LAKE	182.260					182.42	182.25	183.88
	ST. OLA LAKE						313.57	313.05	313.93
	CHANDOS LAKE	312.803	(3XX.XXX M)						
	CORDOVA LAKE	216.293					216.50	216.20	217.58
	KASSHABOG LAKE	261.915					262.16	261.64	262.70
	ROUND LAKE	199.881					200.10	199.34	200.30
	WOLLASTON LAKE	309.933					310.24	309.88	311.55

COMMENTS:

Cutting 5cms – reducing plant output

APPENDIX 2 - MONTHLY WATER LEVEL REPORT EXAMPLE

CROWE VALLEY CONSERVATION - MONTHLY WATER LEVEL REPORT FOR THE MONTH OFAPRIL 2020					
Gauge Site	Winter Level	Summer Level	Monthly Maximum	Monthly Minimum	Last Day of Month
Marmora (Flow)			115.0 cms	34.1 cms	43.0 cms
Beaver Creek (Flow)			38.6 cms	11.9 cms	11.9 cms
Glen Alda (Flow)			33.2 cms	10.0 cms	10.0 cms
Paudash Lake	342.02m	342.31m	342.39 M	342.24 M	342.39 M
Belmont Lake	186.66m	187.09m	187.43 M	187.16 M	187.16 M
Crowe Lake	182.25m	182.42m	182.54 M	182.32 M	182.49 M
St. Ola Lake	313.06m	313.57m			
Chandos Lake			313.16 M	312.91 M	312.92 M
Cordova Lake	216.20m	216.50m	216.90 M	216.40 M	216.40 M
Kasshabog Lake	261.64m	262.16m	262.23 M	262.13 M	262.23 M
Round Lake	199.34m	200.10m	200.31 M	199.94 M	200.28 M
Wollaston Lake	309.88m	310.30m	310.52 M	310.19 M	310.30 M
Allan Mills	NO LONGER IN SERVICE				
Oak Lake (previous month)	0.10m	0.50m	0.50m	0.36m	0.50m
Conversions: ✓ Metres to feet: multiply by 3.2808 ✓ Cubic metres/second (cms) to cubic feet/second: multiply by 35.315 ✓ Millimetres (mm) to inches: multiply by 0.039		Total amount of precipitation recorded this month: Belmont Lake: 65.8 mm = 2.6 inches Glen Alda: 51.6 mm = 2.1 inches		Total number of dam operations undertaken during month: 174	
Monthly Summary: Most levels and flows peaked during the first week of April.					
For further information, please contact Crowe Valley Conservation Authority P.O. Box 416, Marmora, Ontario K0K 2M0 Phone (613) 472-3137 Fax (613) 472-5516 E-Mail: info@crowevalley.com					

APPENDIX 3 - AMATEUR RADIO EMERGENCY SERVICE

Emergency Co-Ordinator

Peter Hodgson* VE3UR

Home: 613-962-1386

Cell: 613-969-8613

Email: phodgson@kos.net

11 Baldwin Street, Belleville, Ontario, K8P 2V1

Peter Blakely VA3PGB

Cell: 613-921-2346

Email: blackgunpowder5054@gmail.com

452 Kellars Bridge Road, Eldorado, Ontario, K0K 1Y0

Brian Redden VE3HQR

Home: 705-653-2046

Cell: 705-653-7578

Email: redde@reddens.ca

NOTE: * indicates EMO introduction to IMS course

APPENDIX 4 - SAND BAGS

In a flooding emergency situation, the Crowe Valley Conservation Authority will act in an ***advisory manner only***.

Therefore, the CVCA only maintains a small supply of sand bags which, in emergency situations, may be made available to watershed municipalities and/or residents, on an "as needed" basis as a stop gap measure in an emergency situation.

The CVCA does not have sand stockpiled for sandbagging purposes. Sand should be readily available from each municipality.

Municipalities are encouraged to maintain an adequate supply of sandbags on hand at all times and be prepared to supply sand also on an "as needed" basis.

Sand Bag Supplier

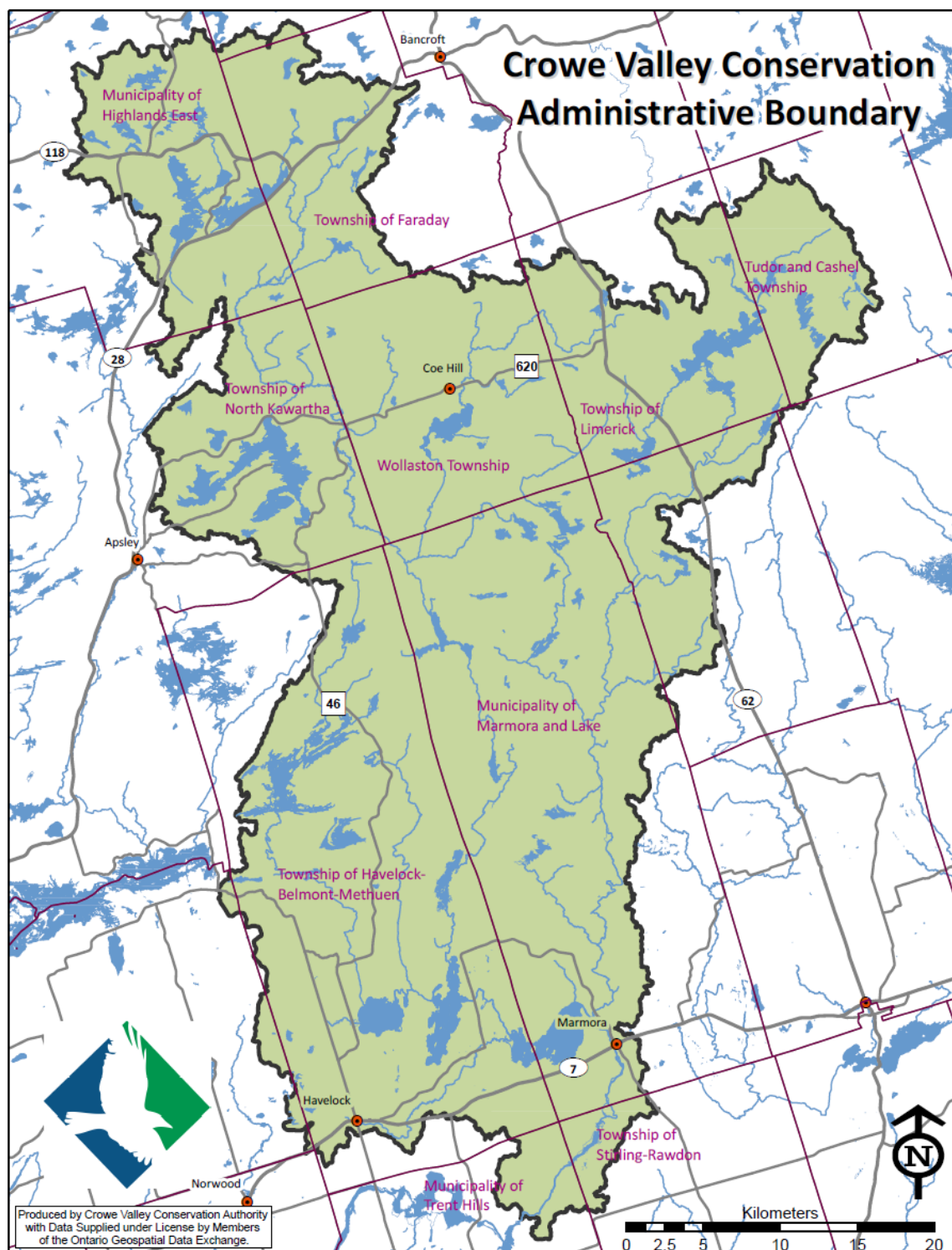
Sand bags may be purchased from the following supplier:

Burtex Industries
66 Bartor Road
Weston, Ontario
M9M 2G5
Telephone: 416-745-2711
After Hours call Art Saunders 416-315-2396
Toll Free: 800-268-0908
Email: farrellenterprises@outlook.com

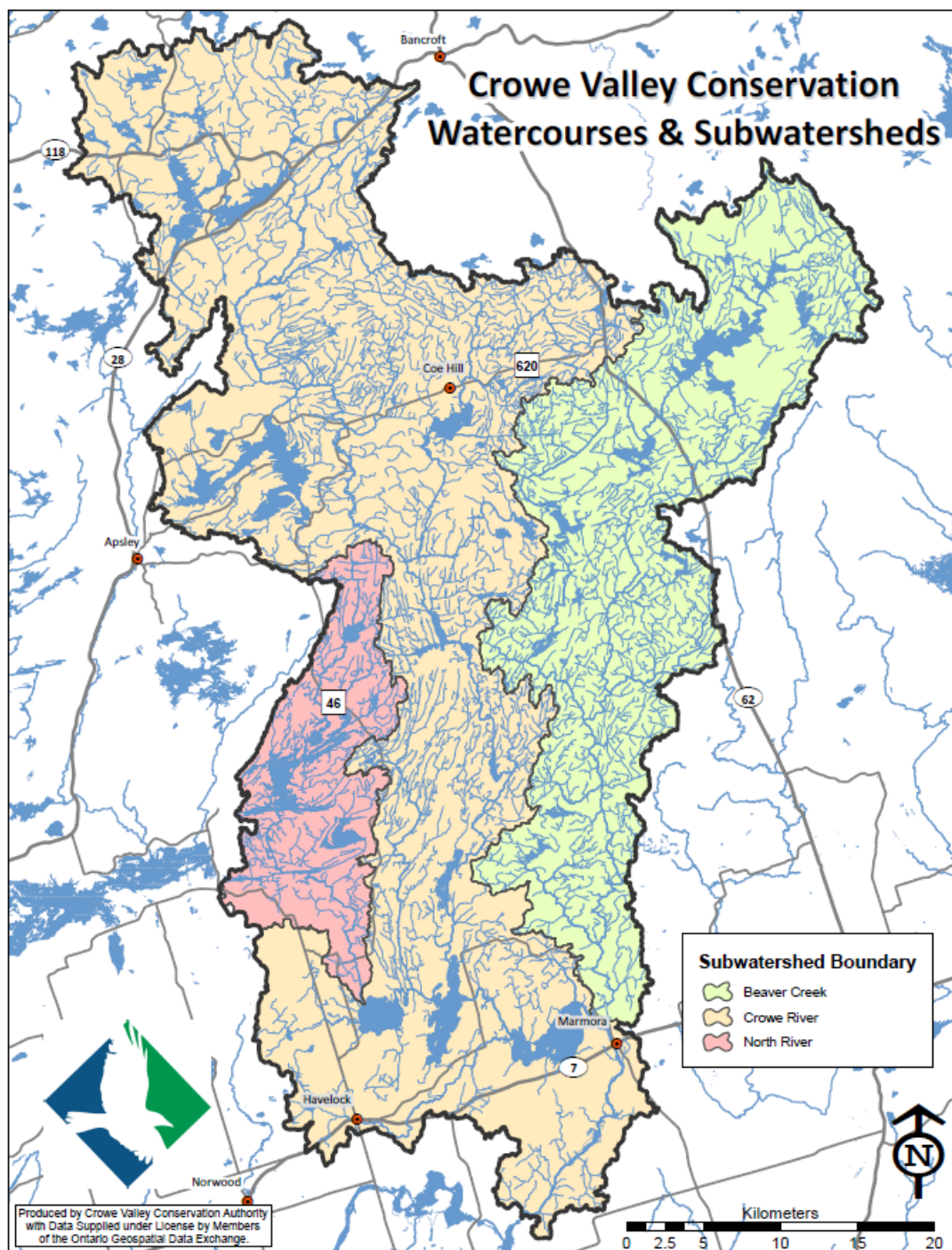
APPENDIX 5 - DISTRIBUTION LIST

- (a) Members of Crowe Valley Conservation Authority Board
- (b) Clerks of all Member Municipalities
- (c) Ministry of Natural Resources & Forestry: Kingston, Bancroft, Peterborough
- (d) Ontario Provincial Police:
Detachments: Bancroft, Northumberland, Kawartha, Central Hastings, Haliburton Highlands
- (e) Trent Severn Waterway: Peterborough, Campbellford, Trenton
- (f) Amateur Radio Emergency Service: Emergency Co-ordinator
- (g) Marmora Fire Department: Attention: Fire Chief
- (h) Staff: Crowe Valley Conservation Authority
- (i) Canadian Red Cross: Attention: Emergency Response Team
Site Manager Teresa Prato 613-920-5252 teresa.prato@redcross.ca
Emergency Management Coordinator Terra Mitchell 289-385-0117
terra.mitchell@redcross.ca Provincial Duty Officer 416-209-0432
ONDutyofficer@redcross.ca Provincial PDA Assistance line is
1-800-850-5090

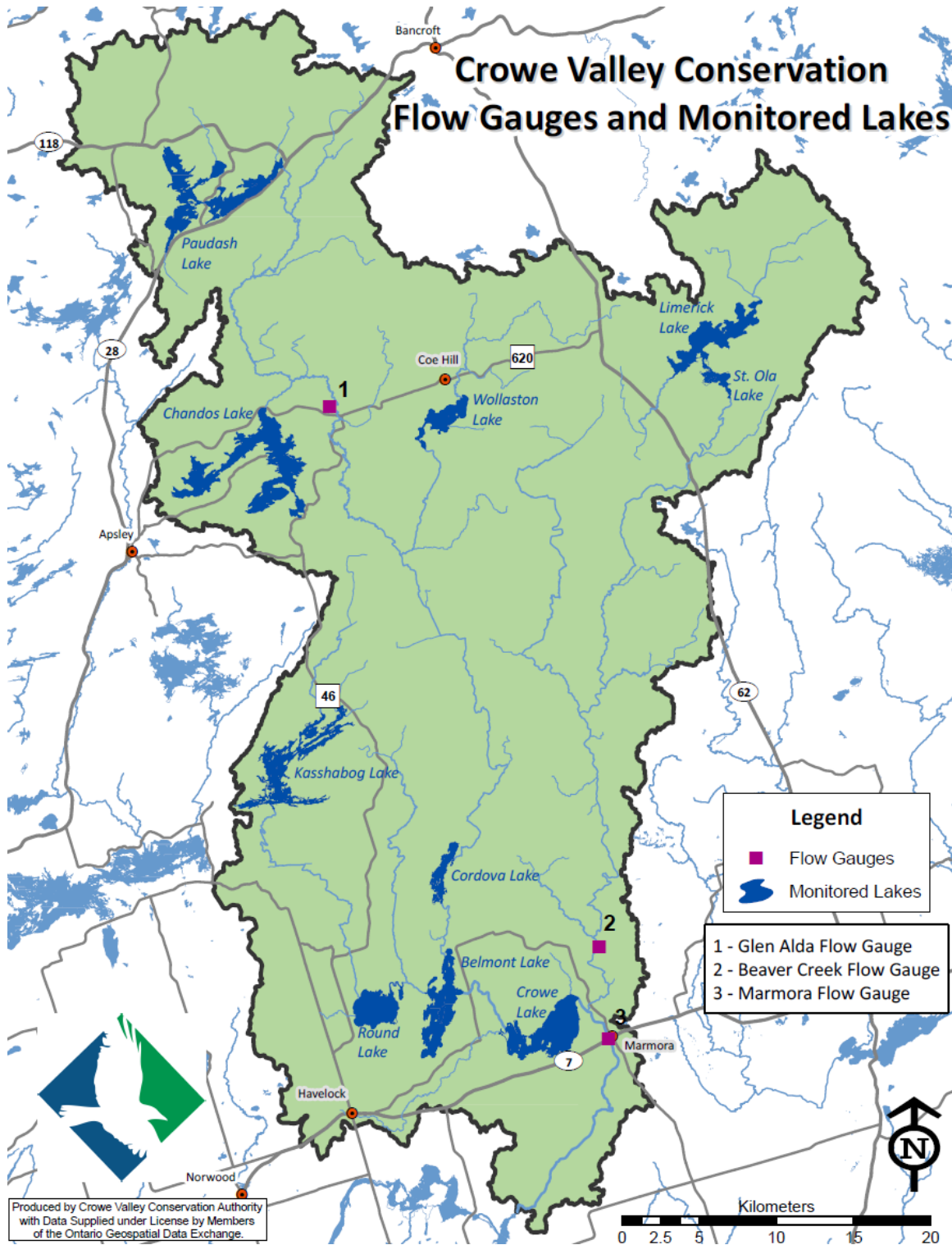
APPENDIX 6 – WATERSHED AND MUNICIPAL BOUNDARIES MAP



APPENDIX 7 – WATERSHED WATERCOURSES AND SUBWATERSHED



APPENDIX 8 – FLOW GAUGE AND MONITORED LAKES



APPENDIX 9 – BACKGROUND AND SITUATION ANALYSIS

1.0

The Allan Mills Dam, which is owned and operated by the Crowe Valley Conservation Authority, is located in Part of Lot 26, Concession 12, Seymour Township. The dam is located approximately 10 kilometers downstream of the Village of Marmora and approximately 6 kilometers above the outlet of the Crowe River into the Trent River system. The dam, with a 64-meter overflow weir and three operating sluice gates, maintains water levels on a wide section of the Crowe River named Rylstone Lake upstream to a small waterfall known as Callaghan's Rapids.

Immediately upstream of the dam is a bridge owned jointly by Hastings County and Northumberland County. The river through this area varies in width and in steepness of the riverbank. A small number of seasonal and permanent residences are located along the banks of the river between the dam and Callaghan's Rapids. In general, the lowest lying residences are located immediately upstream of the bridge.

The Crowe River watershed above Allan Mills Dam drains an area of approximately 2000 Km². The flow of the river in this section varies from under 2 cubic meters per second (cms) in summer to a 1:100 year flow in excess of 225 cms. During the spring of 1998 the river peaked at a flow of 194 cms. Recently, in 2019, the river peaked at a flow of 227 cms.

This appendix has been prepared in response to concerns that the ice jamming may cause flooding due to shifting and jamming in downstream narrows, the bridge or the dam. In the event of flooding resulting from ice jams, this Authority's Flood Contingency Plan will be used as a guideline for flood watch, flood warning and flood response. Given that flooding, resulting from ice jamming, may affect residents in the Municipality of Trent Hills or the Township of Stirling-Rawdon, both municipalities will take a joint leadership role in flood response. Access to some of the property that may be affected will be through Marmora and Lake Township and as a result they are included as participants in this plan in a support role.

This appendix assumes that, if flooding does occur as a result of ice jamming, the response time for action will be extremely short. The first point of this plan will be the safe evacuation of residents at risk of flooding.

2.0 Purpose

This plan has been prepared as an Appendix to the Emergency Plans of the affected Municipalities and the annual Crowe Valley Conservation Authority Flood Contingency Plan. It is intended to form part of the local emergency planning process in the event that a flood emergency occurs as a result of a ice jamming during periods of high water. The plan is intended to prepare for the most efficient deployment of all services and resources in the event that ice jamming blocks the flow of water and causes localized flooding. This plan is intended to ensure:

- 2.1 an efficient flood monitoring system
- 2.2 the earliest possible response to an emergency with the resources available and the establishment of overall control of emergency operations
- 2.3 a response consistent with the prevailing conditions and information provided by the Conservation Authority flood warning system or other sources
- 2.4 crowd control to maintain order so that emergency operations are not impeded and to eliminate sources of potential danger in flood areas
- 2.5 policing to protect property and prevent looting
- 2.6 controlled evacuation and relocation of people considered to be in a hazardous situation
- 2.7 rescue of persons with minimum delay and provision of medical aid
- 2.8 salvage of property
- 2.9 orderly re-occupations of premises

3.0 Revisions

This plan will be revised as long as the threat of flooding from ice jamming remains or as conditions change.

4.0 Responsibilities

In general terms the responsibilities of the primary agencies involved in this plan are given below.

4.1 Crowe Valley Conservation Authority – Duty Forecaster

The responsibilities of the Crowe Valley Conservation Authority – Duty Forecaster will include:

- 4.1.1 daily monitoring of climatic conditions, water conditions and flood forecasting predictions
- 4.1.2 providing Flood Watch and Flood Warning Statements as required by the plan
- 4.1.3 acting as the initial media contact

- 4.1.4 acting as the liaison with the Ministry of Natural Resources and Forestry regarding Provincial Flood Alerts and environmental issues
- 4.1.5 acting as the liaison with the Department of Fisheries and Oceans regarding potential implications of the *Federal Fisheries Act*

4.2 Lead Municipalities & Municipal Flood Coordinators

Municipality of Trent Hills & Township of Stirling-Rawdon

Due to the potential for flooding to cross municipal boundaries it has been agreed that the Municipality of Trent Hills and the Township of Stirling-Rawdon will assume joint responsibility for flood response. As a recommendation, each Municipality will appoint a Flood Coordinator whose responsibilities will include:

- 4.2.1 providing the coordination and deployment of all resources required to respond to flooding
- 4.2.2 acting as the coordinating agency for determining persons and properties at risk (in consultation with the Ontario Provincial Police and the Conservation Authority)
- 4.2.3 acting as the coordinating agency for the orderly and timely evacuation of residents (in consultation with the Ontario Provincial Police)
- 4.2.4 providing temporary shelter for persons evacuated
- 4.2.5 acting as the coordinating agency for securing property (in consultation with the Ontario Provincial Police)
- 4.2.6 providing sandbags, sands and manpower assistance to land owners (Note: opportunities for sand bagging may be limited due to time constraints and/or manpower constraints and will take a secondary role to preventing loss of life) at the Municipalities discretion
- 4.2.7 acting as the coordinating agency for the relocation of evacuated residents
- 4.2.8 providing cleanup of flood debris and damage on municipally owned land and at the discretion of the municipality, provide cleanup assistance for citizens
- 4.2.9 acting as the Chair for regular Flood Coordinating Meetings
- 4.2.10 declaration of municipal emergency (in consultation with the Ontario Provincial Police and the Conservation Authority)
- 4.2.11 determining if local resources are adequate or if additional resources are required

4.4 Ontario Provincial Police

The responsibilities of the Ontario Provincial Police will include:

- 4.4.1 the coordination of all security aspects relating to the flood – such as road closures, vandalism, looting and crowd control
- 4.4.2 acting as a media spokesperson during the flood event (in consultation with the Municipalities and the Conservation Authority)
- 4.4.3 consulting with the Municipalities with respect to the declaration of an emergency

4.5 Support Municipality Township of Marmora and Lake

The responsibility of the Support Municipality – Township of Marmora and Lake, will include:

- 4.5.1 manpower and equipment support to be directed by the Lead Municipalities
- 4.5.2 support to the lead Municipalities with respect to access and control issue for residents that access their property through Marmora and Lake Township
- 4.5.3 shelter support for evacuated residents

5.0 Flood Monitoring Plan

Attached, Schedule 'B', is a copy of the Flood Monitoring Plan. The Crowe Valley Conservation Authority will be responsible for the flood monitoring section of this plan.

For the purpose of this plan, Flood Monitoring has been divided into two distinct stages. The first stage, Routine Daily Monitoring will be used at all times when the flow in the Crowe River is **less** than 150 cms as recorded at the Crowe River – Marmora Flow Gauge and will consist of the following:

- 5.1 minimum once daily contact with Environment Canada (Weather)
- 5.2 minimum once daily reading of Marmora (Crowe River) electronic gauge station (flow) and upstream gauging stations
- 5.3 minimum once daily reading of precipitation gauges in Crowe Valley watershed
- 5.4 weekly back up and archiving of data from gauging network
- 5.5 completion of the Crowe River Flood Forecasting Model as required

- 5.6 completion of snow sampling as required (a minimum of once each winter month and twice per month starting in March)

The second stage, Flood Watch will be implemented when the flow in the Crowe River is **greater** than 150 cms (or as deemed necessary) as recorded at the Crowe River – Marmora Flow Gauge and will be utilized to indicate an increased risk of flooding and a notice to Municipalities that the potential for flooding has increased. **No** immediate action is required. A Flood Watch Statement is merely intended to increase awareness of the potential for flooding. Flood Watch will consist of all of the above plus the following:

- 5.7 fax or email an alert notice to Municipal Flood Coordinators

A sample of Flood Watch has been appended to this document.

A Flood Warning will be issued at the first indications that flooding is imminent. Imminent flooding is defined as “any change in river conditions which reasonably may be considered to be a threat to personal safety or cause extensive property damage”. A sample Flood Warning has been appended to this document.

In the event that a Flood Warning is required the Crowe Valley Conservation Authority will immediately:

- 5.8 contact the Ontario Provincial Police and the Flood Coordinators of the three Municipalities and advise of a Flood Warning
- 5.9 advise the Provincial Emergency Response Coordinator (PERC) and the Media

At this point all agencies will proceed to implementation of the Flood Response Plan.

6.0 Flood Response Plan

Should a flood event occur the **Crowe Valley Conservation Authority** will:

- 6.1 organize a site meeting for municipal flood coordinators and the Ontario Provincial Police
- 6.2 continue to provide up to date reports regarding water level conditions, upstream water conditions, flood predictions and weather
- 6.3 act as a liaison with the Ministry of Natural Resources and Forestry and the Department of Fisheries and Oceans regarding flood and environmental concerns

At the Site Meeting the **Lead Municipalities** will assume joint responsibility for all flood response issues, including:

- 6.4 identifying residences and/or people at risk
- 6.5 issuing evacuation orders – (in consultation with Ontario Provincial Police)
- 6.6 issuing of sand and sandbags to residents
- 6.7 coordinating resources with Municipal agencies – (public utilities, shelter. Etc.)
- 6.8 declaration of an emergency (in consultation with Ontario Provincial Police and the Conservation Authority)

At the Site Meeting the **Ontario Provincial Police** will assume responsibility for all site security measures and media relations:

- 6.9 site security – (road closures, emergency vehicle access, etc.)
- 6.10 information to media (with support from Municipalities and Crowe Valley Conservation Authority)
- 6.11 consult with the Lead Municipalities regarding the need for the declaration of an emergency

7.0 Additional Information

Appended to this plan is a compilation of additional information, contact numbers and background information that may be of assistance during a flood event. The Flood Coordinators for Lead Municipalities will also utilize the Emergency Planning documents of their Municipalities as a resource during a flood event.

TELEPHONE LIST – MUNICIPALITY OF TRENT HILLS

	Residence	Business	Fax	Cellular
Head of Council: Bob Crate bob.crate@trenthills.ca		705-653-3977	705-653-5203	705-761-2278
Deputy Mayor Rosemary Kelleher McLennan		705-653-3456	705-653-5203	705-653-6854
CAO Lynn Phillips lynn.phillips@trenthills.ca	705-653-6016	705-653-1900 Ext. 241	705-653-5203	705-653-9423
Director of Legislative Service/Clerk Doug Irwin doug.irwin@trenthills.ca		705-653-1900 Ext: 240	705-653-5203	705-632-9423
Flood Coordinator Alternate: Jim Peters jim.peters@trenthills.ca	613-481-6022	705-653-1900 Ext: 234	705-653-5203	705-653-6070
CEMC Alternate: Shawn Jamieson shawn.jamieson@trenthills.ca		705-745-5757 (pager) ID#608	705-653-5203	705-632-8933
Ontario Provincial Police: Campbellford Detachment	Emergency: 9-1-1 OR 888-310-1122	General Inquiry: 705-653-3300	705-653-5171	
Police Chief: Insp. Jeff Martin	Emergency: 9-1-1 OR 888-310-1122	General Inquiry: 705-653-3300	Fax: 705-653-5171	N/A
Alternate OPP: Staff Sargent TBA	Emergency: 9-1-1- OR 888-310-1122	705-653-3300	705-653-5171	N/A
Fire Chief/Flood Coordinator/CEMC Tim Blake tim.blake@trenthills.ca	705-653-2408	705-653-1900 Ext. 222	705-653-5203	705-653-6194
Community Development Officer: Kira Mees kira.mees@trenthills.ca		705-653-1900 Ext:239	705-653-5203	705-653-6363

TELEPHONE LIST – TOWNSHIP OF STIRLING-RAWDON

	Residence	Business	Fax	Cellular
Head of Council: Mayor Bob Mullins mayor@stirling-rawdon.com	613-395-4695	613-395-3346	613-395-0864	613-438-0402
Alternate: Deputy Mayor Grant Hagerman deputy-mayor@stirling-rawdon.com	613-395-3541		613-395-0864	613-922-3541
Emergency Flood Coordinator: Derrick Little	613-921-8152 (work cell)	613-395-0214	613-395-0864	613-921-8152
Alternate: Gerry Buss	613-395-6082	613-771-9366 Ext 229	613-395-0864	613-847-6909
Public Works: George Burkitt superintendent@stirling-rawdon.com	613-920-2877	613-395-3380 Ext 227	613-395-0864	613-847-5654
CAO/Treasurer: Roxanne Hearn	613-395-1583 OR 613-921-6936	613-395-3380 Ext 2222	613-395-0864	613-849-4762
Clerk Kathy Pearl clerk@stirling-rawdon.com	705-434-7817	613-395-3380 Ext 2234	613-395-0864	613-848-9995
Opp Madoc Detachment	Emergency: 613-473-4234 (dispatch) 9-1-1	General Inquiry: 613-473-4234 888-310-1122	Fax: 613-473-5029	
Staff Sargent: Scott Underhill		613-473-4234	613-473-5029	
Alternate: N/A				
Building Inspector: Donald Reed	613-395-5325	613-395-5166 866-414-0088	613-395-0864	613-848-6008
Medical Officer of Health (Hastings County) Dr. Piotr Oflaza		613-966-5500 800-267-2803 (After hrs Emergency#) TDD/TTY ph# 711 or 800-267-6511	613-966-9418	
Fire Chief: Derrick Little	613-921-8152 (work cell)	613-395-0214	613-395-0864	613-921-8152
Deputy Fire Chief Stn #1: Bruce Farquhar	613-395-3012	613-395-5044	613-395-0864	613-921-3101
Deputy Fire Chief Stn#2 Stephen Finch	613-395-5969		613-395-0864	613-827-5969
Alternate/CEMC (C/S) Gerry Buss	613-395-6082	613-771-9366 Ext 229	613-395-0864	613-847-6909
Environmental Manager Mathew Richmond wso@stirling-0rawdon.com Water and Wastewater Operator Clare Dracup wsao@stirling-rawdon.com	613-328-5475 613-847-7138	613-395-3380 EXT: 2223 613-395-3380 EXT: 2228	613-395-0864 613-395-0864 613-395-0864	613-848-1439 613-403-2782 613-403-2782

TELEPHONE LIST – MUNICIPALITY OF MARMORA & LAKE

	Residence	Business	Fax	Cellular
Head of Council: Jan O'Neill joneill@marmoraandlake.ca	Not Provided	613-472-2629 Ext 2226	613-472-5330	613-847-2430
Emergency Flood Coordinator: Tony Brownson tbrownson@marmoraandlake.ca	Not Provided	Emergency 911 613-472-2748		613-921-6117
CAO & Municipal Clerk: Tonia Bennett tbennett@marmoraandlake.ca	Not Provided	613-472-2629 Ext 2221	613-472-5330	613-922-2947
<p>Ontario Provincial Police: Emergency: 9-1-1 OR 1-888-310-1122</p> <p>Madoc Detachment General Inquiry: 613-473-4234 Fax: 613-473-5029</p> <p>Contact: Staff Sargent Scott Underhill</p>				
Medical Officer of Health (Hastings County) Dr. Piotr Oglaza		613-966-5500 800-267-2803 (After hrs Emergency#) TDD/TTY ph# 711 or 613-966-3036 800-267-6511	613-966-9418	

TELEPHONE LIST – CROWE VALLEY CONSERVATION

	Residence	Business	Fax	Cellular
Flood Warning Coordinator: Tim Pidduck General Manager tim.pidduck@crowevalley.com	613-967-1322	613-472-3137	613-472-5516	613-847-1912
Alternate: Neil McConkey Water Resources Tech watertech@crowevalley.com	613-399-5693	613-472-3137	613-472-5516	613-885-1979
Acting Water Technician Andrew McIntyre andrew.mcintyre@crowevalley.com		613-472-3137	613-472-5516	613-847-0275
Alternate: Wray Price Lands Resources Tech watertech@crowevalley.com		613-472-3137	613-472-5516	
Duty Forecaster:		613-472-3137	613-472-5516	613-968-0724
<u>Other Personnel:</u> Catherine Redden Authority Chair catherine.redden@trenthills.ca OR credden@reddens.ca	705-653-2046	613-472-3137 or 705-653-1900	613-472-5516 or 705-653-5203	705-653-2046
Janice MacKillican Vice Chair j.mackillican@township.limerick.on.ca	613-966-8885	613-472-3137 or 613-474-2863	613-472-5516 or 613-474-0478	613-922-4940
Jim Martin Havelock-Belmont-Methuen Rep jmartin@hbmtwp.ca	705-778-3764	613-472-3137 or 705-778-2308 Ext 229	613-472-5516 or 705-778-5248	705-749-7676
Jan O'Neill Marmora & Lake Rep j.oneill@marmoraandlake.ca	613-472-2972	613-472-3137 or 613-472-2629 Ext 2226	613-472-5516 or 613-472-5330	613-847-2430

TELEPHONE LIST – TRENT SEVERN WATERWAY

**Campbellford Sector (Hastings, Dam #15 to Meyers, Dam #8) &
Trenton Sector (Dam #7 – Glen Ross to Trenton Dam #1)**

	Residence	Business	Fax	Cellular
Primary Contact Anna Ciorap Acting Water Management Engineer Email: anna.ciorap@pc.gc.ca		705-750-4932		705-761-7275
Secondary Contact Chad Buchner Director of Canal Operations Email: chad.buchner@pc.gc.ca		705-750-4902	705-750-4934	705-313-1469
Secondary Contact Karl Ellis Sector Manager Email: karl.ellis@pc.gc.ca		705-653-3240		613-242-4305
Secondary Contact Karen Feeley Public Relations and Communications Officer Email: karen.feeley@canada.ca		705-750-4930	705-750-4934	705-313-1097

TELEPHONE LIST – ALGONQUIN POWER (CORDOVA)SYSTEMS

	Residence	Business	Fax	Cellular
Head Office Mark de Koning mark.dekoning@apsystems.ca		Cell: 905-829-6360	N/A	Business # forwarded to Mark's cell
Mark de Koning	Use cellular #			604-860-3199
Steve McCrory		289-205-0732		
Site Supervisor Jim Molloy	613-921-3770	705-778-5478		613-921-3770

	Residence	Business	Fax	Cellular
Crowe Bay Generating Station		705-653-0045	705-653-0045	
Local Operator: John Vanberkel	613-392-6632	705-653-0045	Pager 613-540-5406	613-391-8718

TELEPHONE LIST – EMERGENCY RESPONSE

AVIATION, FOREST AND EMERGENCY SERVICES (AFFES) AND MINISTRY EMERGENCY OPERATION CENTRE (MEOC) OF THE MINISTRY OF NATURAL RESOURCES AND FORESTRY

MINISTRY EMERGENCY OPERATION CENTRE (MEOC)

PERC Hotline: 1-866-898-7372

Clerk: 705-945-5795

Fax 705-945-5785

Email: meoc-mail.mnr@ontario.ca

	Work	Home	Fax	Cellular
Scheduled (PERC)	866-898-7372	N/A	705-945-5785	N/A

FLOOD RESPONSE WILL GO TO WHOMEVER IS MEOC AT THE TIME

OTHER RESPONSE CENTRE CONTACT NUMBERS

PERC Hotline	866-898-7372
Clerks	705-945-5795
Switchboard Replacement	705-945-5750
MEOC <i>Fax Number</i>	705-945-5785

PETERBOROUGH DISTRICT, MINISTRY OF NATURAL RESOURCES AND FORESTRY

	Work	Home	Fax	Cellular
Primary Contact District Manager: Hal Leadlay hal.leadlay@ontario.ca	705-755-3363		705-755-3125	705-761-7395
Emergency Response Coordinator Deanna Cotter deanna.cotter@ontario.ca				705-872-1924

**SURFACE WATER MONITORING CENTRE – CONTACT INFORMATION &
AFFMB PROVINCIAL EMERGENCY RESPONSE COORDINATOR (PERC)
CONTACT**

Contact Information for the Surface Water Monitoring Centre:

Mailing Address:

Surface Water Monitoring Centre

Ministry of Natural Resources and Forestry

P.O. Box 7000

300 Water St

5th Floor South

Peterborough, Ontario

K9J 8M5

Coordinator – Dave Burritt 1-705-755-1215

Daytime Phone: 705-755-5201 – SMWC duty officer desk

- Please use this number for flood forecasting/warning purposes

After Hours Duty Officer Cell Phone: 705-761-2044

- Please use this number for flood forecasting/warning purposes after regular business hours and weekends/holidays

Fax: 705-755-5038

Alternate Fax: 705-755-5039

- Please use either of these numbers when issuing flood messages

Email for SWMC Duty Officer:

- surface.water@ontario.ca

**CONTACT FOR AVIATION & FOREST FIRE & EMERGENCY SERVICES
(AFFES),
MINISTRY EMERGENCY OPERATION CENTRE (MEOC)**

PERC Hotline 866-898-7372

TELEPHONE LIST – NEWS MEDIA

	<u>PHONE</u>	<u>FAX</u>
<u>Campbellford:</u>		
CKOL 93.7 FM Campbellford / 100.7 FM Madoc Radio/Trent Valley Broadcasting P.O. Box 551, 15 Reglan St. S. Campbellford, K0L 1L0 David Lockwood ckol-radio@bell.net	705-653-1089	705-653-1089
Eastlink Cable Systems, cable provider		
Residential Service	888-345-1111	
Business Service	877-813-1727	
<u>Belleville:</u>		
CJBQ 800 AM Radio Qunite Broadcasting, P.O. Box 488, 10 Front St., Belleville, ON., K8N 5B2 Information Direct to Newsroom	613-969-5555 613-969-5803	613-969-8122
MIX97 Quinte Broadcasting, P.O. Box 488, 10 South Front St., Belleville, ON., K8N 5B2 Information Direct to Newsroom	613-969-5555 613-968-5803	613-969-8122
Classic hits 95.5 (FM Radio) 497 Dundas St., W. Belleville, ON., K8P 1B6 Main Line Emergency Calls: Bell Mobility *955 paul@cool100.ca	613-966-0955 613-966-3125	613-967-2565
The Community Press 199 Front St., Suite 118, Belleville, ON., K8N 5H5 Information intelligencer.classifieds@sunmedia.ca	613-962-9171	631-962-9652
The Belleville Intelligencer (daily paper), 199 Front St., Suite 535, Belleville, ON., K8N 5H5 Information Toll Free bmvicar@postmedia.ca	613-962-9171 1-866-511-1963	613-962-9652
<u>Peterborough:</u>		
Corus Entertainment 100.5 Fresh Radio, 743 Monaghan Rd, Peterborough, ON., K9J 5K2 Main Office Newsroom newswatchradio@corusent.com	705-742-0451 705-748-6101 Ext 212/213	705-742-7274
Corus Entertainment CKWF The Wolf 101.5 Radio, 743 Monaghan Rd, Peterborough, ON., K9J 5K2 Main Office Studio Line Newsroom *1015 on Bell Mobility newswatchradio@corusent.com	705-742-0451 705-740-9653 705-742-0875	705-742-7274

MOVE 99.7 Radio, P.O. Box 177 59 George St. N., Peterborough, ON., K9J 6Y8		
Information	705-742-8844	705-472-1417
In Studio	705-743-9970	
*9970 on Bell Mobility		
kawarthanews@bellmedia.ca		

PHONE

FAX

CKQM-FM Radio Country 105, P.O. Box 177, 59 George St. N. Peterborough, ON., K9J 6Y8		
Information	705-742-8844	705-742-1417
In Studio	705-876-1051	
kawarthanews@bellmedia.ca or country105@bellmedia.ca		

CHEX "news watch" (TV station), 743 Monaghan Rd, Peterborough, ON., K9J 5K2		
Switchboard	705-742-0451	705-742-7274
TDD No.	705-749-2179	
Newsroom	705-742-8712	705-742-2930
*111 on Bell Mobility		
newswatch@chextv.com		

The Peterborough Examiner (daily newspaper) c/o Package Plus Inc. 171A Rink St., Suite 125., Peterborough, ON., K9J 2J6		
Information	705-745-4641	705-745-3361
kennedy.gordon@peterboroughdaily.com		
news@peterboroughdaily.com		

Bancroft:

The Bancroft Times Newspaper 93 Hastings St. N. Bancroft, ON., K0L 1C0		
	613-332-2300	613-332-4887
	613-332-1894	
bancroft-times@sypmatico.ca		
www.thebancrofttimes.ca		

LOCAL RESOURCE DIRECTORY – AS PROVIDED BY TOWNSHIP OF STIRLING-RAWDON

FOOD SERVICES

Foodland 44 North St, Stirling, K0K 3E0	613-395-2493
Steve Runnals RR # 1, Stirling, K0K 3E0 (Res)	613-395-5296
Circle K 1 Mill St, Stirling, K0K 3E0	613-395-3367
Pro One Stop 280 North St., Stirling, K0K 3E0	613-395-5360
Jenny's Country Lane 38 Mill St., Stirling, K0K 3E0	613-395-5487
Jenny Abraham, Owner RR 4, Stirling, K0K 3E0..... (Res)	613-395-5545
Vito's Pizza 160 North St., Stirling, K0K 3E0.....	613-395-1313
Jimmy's Special Pizza and Fish and Chips 2 West Front St., Stirling, K0K 3E0	613-395-5111
Savory House Chinese Cuisine 24 West Front St., Stirling, K0K3E0	613-395-1288
Subway 127 North St., Stirling, K0K 3E0	613-395-6400
The Black Dog Family Restaurant 227 West Front St., Stirling, K0K 3E0	613-395-9444
Stirling Food Bank Emergency Contact Heather Bailey	613-920-1108

MEDICAL SERVICES

Dr.Ranijith, Dr Mahedeva, Dr. Lionel Noronha.. 613-395-5566 Fax 613-395-3636 9C Tuftsville Rd., Stirling, K0K 3E0 southeasthealthline.ca	
Hastings Quinte Paramedic Services 111 Millennium Pkwy, Belleville., K8N 4Z5	613-771-9366
QHC Belleville General Hospital 265 Dundas St. E. Belleville., K8N 5H9	1-800-483-2811 or 613-969-7400 Fax 613-969-0806 info@qhc.on.ca
Campbellford Memorial Hospital 146 Oliver Rd, Campbellford., K0L 1L0	705-653-1140
QHC Trenton Memorial Hospital 242 King St, Trenton., K8V 5S6.....	613-392-2540
Stirling Manor Nursing Home 218 Edward St., Stirling K0K 3E0	613-395-2596
info@stirlingmanor.com	
Victorian Order of Nurses (VON) 25-360 George St. N. Peterborough., K9H 7E7	705-745-9155 or 1-866-784-5468 Fax 705-745-3262
St. John's Ambulance Loyalist Branch 417 Montose Rd, Belleville. K8R 1B2	613-962-7933
Canadian Red Cross 80 Parks Dr., Belleville., K8N 4Z5	613-966-0730
Hastings & Prince Edward Counties Health Unit 179 N Park St., Belleville., K8P 4P1.....	613-966-5500
Guardian Drugs 9D Tuftsville Rd., Stirling., K0K 3E0.....	613-395-2110
Hastings Veterinary Hospital 234 North St., Stirling., K0K 3E0.....	613-395-3386
Stirling Funeral Chapel 87 James St., Stirling., K0K 3E0	613-395-2424
Stirling Pharmasave 160 North St, Unit 2., Stirling., K0K 3E0	613-395-2353

TOWING COMPANIES

Wilkes Towing & Repair 439 Ashley St., Foxboro K0K 2B0.....613-968-5376
Chas Wilkes 228 Foxboro Stirling Rd, Foxboro K0K 2B0 ... (Res) 613-969-5166
McKeown Motor Sales 2589 Spring Brook Rd, Springbrook, K0K 3C0 613-395-3883
..... or 1-800-465-9297 mckeownmotor.com
Rollins Auto Wreckers 623 Slab St., Madoc K0K 2K0.....613-473-2242

STIRLING TOWNSHIP – EQUIPMENT LIST

1 – John Deere Backhoe 310SK
1 – Komatsu 22ton wheeled excavator
4 – 15 Ton Tandem Axle Dump Trucks
1 – 10 Ton Single Axle Dump Trucks
2 – 2/3 HP Water Pumps
250 - 500 – Sandbags
7,000 Cu. Yards sand & salt mix
2 – Front end loader 1 cu. Yard capacity
2 – Class 7 Motor Grader
3 – ½ ton trucks
1-3/4 ton truck
2 - Generators

STIRLING FIRE DEPARTMENT EQUIPMENT LIST

3 – Triple Combination Pumpers
2 – Rescue Units
3 – Generators
3 – Jaws of Life (two hydraulic and one cordless battery operated)
38 – Volunteers
1 – Tanker
1 – Water Source Van
1 – 4 x 4 1500 half ton

CONSTRUCTION EQUIPMENT AVAILABLE FROM OTHER SOURCES

Danford Construction Ltd. 326 Durham S., Madoc K0K 2K0.....613-473-2468
Pat Hunter RR 3 Frankford K0K 2C0.....613-395-1743
Ronald A Cooney Haulage Ltd 256 Eggleton Rd, Stirling, K0K 3E0613-395-2875
McKeown Motor Sales 2589 Spring Brook Rd, Springbrook, K0K 3C0 613-395-3883
or.....1-800-465-9297
mckeownmotor.com

TRANSPORTATION SERVICES

Franklin Coach & Tours, 305 Bell Blvd, Belleville K8P 5H3.....613-966-7000
Coach Canada705-748-6411 or 1-800-461-7661
Central Taxi, 569 Dundas St.E. Belleville K8N 1G6613-962-5353

UTILITIES

Hydro One 149 Elgin St.E., Cobourg K9A 1A11-800-434-1235 or 905-377-1881
 Trent Hills Water treatment Plant 58 Saskatoon, Campbellford K0L 1L0... 705-653-2382
 Emergency 705-653-2610

EMERGENCY SHELTERS

St. Paul's United Church Minister Cheryl McMurray	104 Church St, Stirling, ON., K0K 3E0	613-395-3379
St. James the Minor RC Church Father Don Oberwarth Heather Bailey	236 Edward St., Stirling, ON., K0K 3E0	613-395-5700 613-920-1108
St. John's Anglican Church Rev. Canon Nancy Beale Kathy Reid	73 North St., Stirling, ON., K0K 3E0 office@stjohnsstirling.ca stjohnsstirling@gmail.com stirlingpriest@gmail.com	613-395-1745 or 613-848-3239 (Res) 613-395-5171 rkreid@sympatico.ca
Community Pentecostal Church Pastor John Spurrell	289 W Front St., Stirling, ON., K0K 2M0	613-403-5381 613-395-5381
St. Andrew's Presbyterian Reb. Dr. Morley Mitchell	P.O. Box 118, 110 Mill St., Stirling, ON., K0K 3E0 standrews@stirling.com	613-395-5006 or 613-966-6834 (cell) 613-847-6894
Jehovah's Witness Temple Coordinator for Elders: Keith Deshane	2486 Hwy 14 N, Stirling, ON., K0K 3E0	613-395-4805 613-395-3251
Hastings and Prince Edward District Board of Education Principal – Susan Carleton-Maines stirling@hpedsb.on.ca	156 Ann St., Belleville, ON., K8N 3L3 107 St. James St., Stirling, ON., K0K 3E0	613-966-1170 or 1-800-267-4350 Fax:613-961-2003 613-395-3389 Fax 613-395-5350
Stirling and District Recreation Centre Arena Manager – Richard Dean richard@stirlingarena.ca	435 West Front St., PO Box 400, Stirling, ON., K0K 3E0	613-395-5000
Stirling Legion, Branch #228 legionbranch228@hotmail.com President Vicki Bateman	2430 Stirling Marmora Rd., PO Box 670, Stirling, ON., K0K 3E0	613-395-2975 613-395-0906

Agencies	Municipality of Trent Hills	Stirling-Rawdon		Marmora & Lake
Ambulance	9-1-1 or Campbellford	9-1-1		9-1-1
Fire Department	9-1-1 or 705-653-1236	9-1-1 or 613-921-8152		9-1-1 or 613-921-6117
Hospital	QHC Belleville General 265 Dundas St. E., Belleville, K8N 5H9613-969-7400 Toll Free 1-800-483-2811 Campbellford Memorial 146 Oliver Rd, Campbellford, K0L 1L0705-653-1140 Peterborough Regional Health Centre 1 Hospital Dr. Peterborough, K9J 7C6705-743-2121 Trenton Memorial Hospital 242 King St., Trenton, K8V 5S6613-392-2540Fax 613-392-3749			
Marine & Air Search & Rescue	1-800-267-7270 or 613-965-3870			
Police	9-1-1 Ontario Provincial Police Emergency Only 888-310-1122 General Inquiry Campbellford Detachment 705-653-3300 Fax: 705-653-5171	9-1-1 Ontario Provincial Police Emergency Only 888-310-1122 General Inquiry Madoc Detachment 613-473-4234 Fax 613-473-5029		9-1-1 Ontario Provincial Police Emergency Only 888-310-1122 General Inquiry Madoc Detachment 613-473-4234 Fax 613-473-5029 <hr/> Alt. Quinte West Detachment 613-392-3561 Fax 613-392-5202
Public Works	Municipal Garage 705-653-1900 EXT 244 Fax 705-653-5203 Emergency 24HR 705-653-7090	Municipal Garage 613-395-3380	Municipal Garage Springbrook 613-395-3223	
Medical Officer	Kira Mees Community Development Officer Bus: 705-653-1900 Ext 239 kira.mees@trenthills.ca Fax:705-653-5203	Director of Health Protection for Hastings and Prince Edward Counties Health Unit: Dr.Piotr Oglaza 613-966-5500 Toll Free 800-267-2803 (after hours emergency no.) TDD/TTY: 711 or 800-267-6511 or 613-966-3036 Fax 613-966-9418		

DISTRIBUTION LIST

As attached to CVCA “Flood Warning System”:

Members and Staff: Crowe Valley Conservation Authority

Clerks of all Member Municipalities

Ministry of Natural Resources & Forestry: Kingston, Bancroft & Peterborough

OPP Detachments: Bancroft, Northumberland, Kawartha, Central Hastings & Haliburton Highlands

Trent Severn Waterway: Peterborough, Campbellford, and Trenton

Canadian Red Cross – Emergency Management Coordinator, Terra Mitchell 289-385-0117 terra.mitchell@redcross.ca (Canadian Red Cross, Hastings Branch, 110 North Front Street – A3, Suite 412, Belleville, Ontario., K8P 0A6; Emergency Dispatch Line 24/7 705-653-7632

hpecbilling@redcross.ca

Emergency Response Team Site Manager Teresa Prato 613-920-5252

teresa.prato@redcross.ca

Provincial Duty Officer 416-209-0432 ONDUTYofficer@redcross.ca
Provincial PDA Assistance 1-800-850-5090

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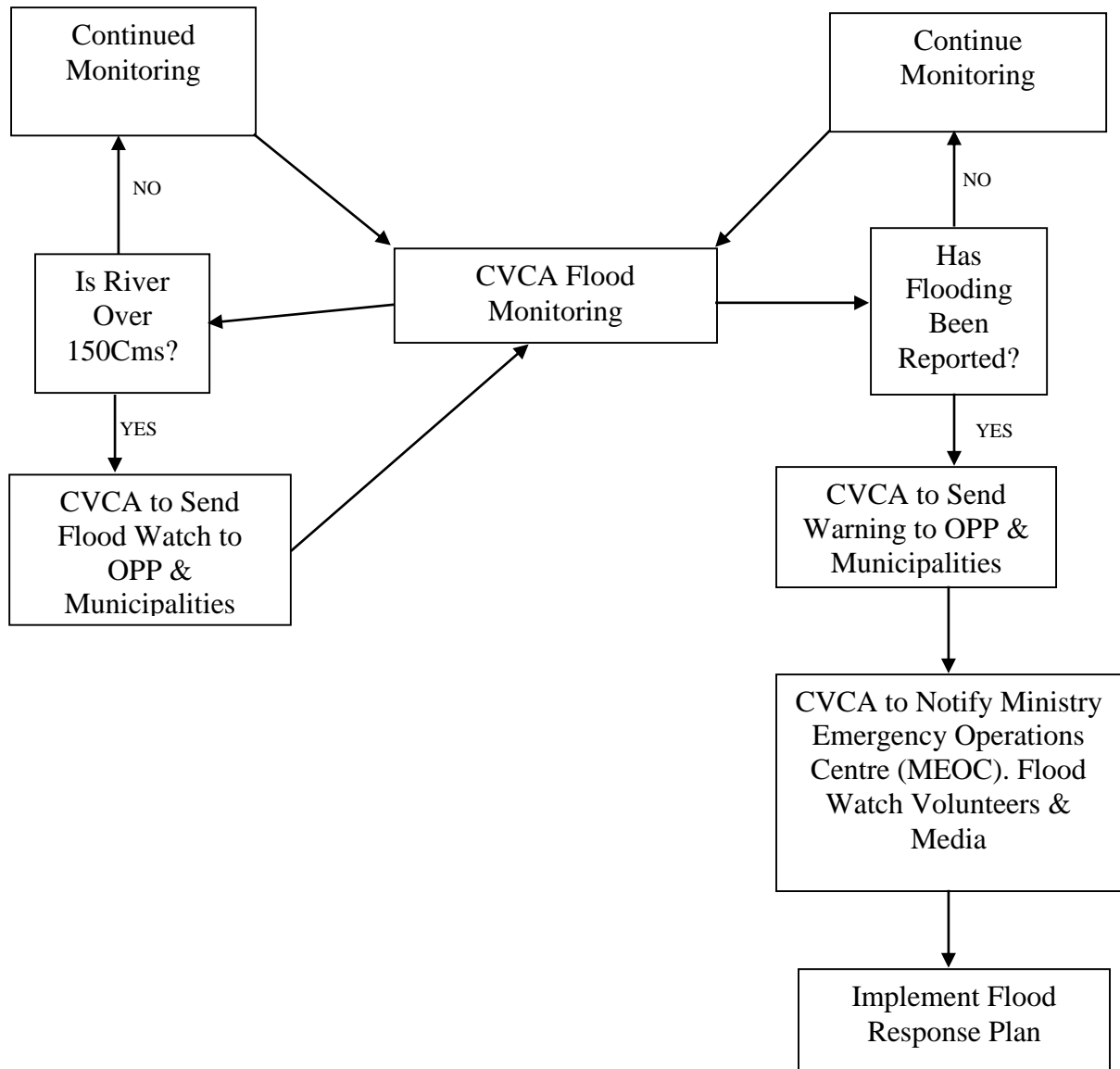
Mr. Todd Smith, MPP, Prince Edward-Hastings (5503 Highway 62 S Unit D, Box 6-2, Belleville, On., K8N 0L5.; 1-877-536-6248; 613-962-1144; Fax 613-969-6381; todd.smithco@pc.ola.org

Mr. David Piccini, MPP Northumberland (117 Peter St. Port Hope, Ontario., L1A 1C5; 905-372-4000 Fax: 905-885-0050 david.piccinico@pc.ola.org

Ms. Kira Mees, Community Development, Trent Hills (P.O. Box 1030, 66 Front Street South, Campbellford, Ontario., K0L 1L0.; 705-653-1900 Ext 248; Fax 705-653-5203; kira.mess@trenthills.ca

Leanne Latter, Emergency Planning Coordinator, Hastings County Emergency Services; 613-966-1319 Ext 2500 or 613-391-8154 (cell); latterl@hastingscounty.com

CVCA FLOOD FORECASTING AND MONITORING FLOW CHART



FLOOD EMERGENCY COORDINATION

