Request for Decision
City Council

Greater | Grand Sudbury
www.city.greatersudbury.on.ca

Type of Decision

Meeting Date	August 12, 2003				Report Date	August 7, 2003			
Decision Requested	x	Yes		No	Priority	x	High		Low
		Direction Only			Type of Meeting	x	Open		Closed

Report Title

Contract 2003-53, Panache Lake Road Emergency Culvert Replacement

Policy Implication + Budget Impact

x	This report and recommendation(s) have been reviewed by the Finance Division and the funding source has been identified.

X	Background Attached

Recommendation

That the supply of the concrete box culvert for Contract 2003-53, Panache Lake Road Emergency Culvert Replacement be awarded to Boucher Precast Concrete Limited in the amount of $71,760.00 this being the lowest tender meeting all contact specifications.

That the installation of the concrete box culvert for Contract 2003-53, Panache Lake Road Emergency Culvert Replacement be awarded to Garson Pipe Contractors Limited in the tendered amount of $166,283.03, this being the lowest tender meeting all contract specifications.

	Recommendation Continued

Recommended by the General Manager

D. Bélisle
General Manager of Public Works

Recommended by the C.A.O.

M. Mieto
Chief Administrative Officer

Report Prepared By	Division Review
Robert M. Falcioni, P. Eng., Operations Engineer.	Maurice Montpellier, C.E.T., Director of Operations.

This spring, we reported to Council that a large steel culvert across MR #10, Panache Lake Road, had failed. We have determined that a concrete box culvert is the best repair option, and have invited two quotations, one for the supply of the concrete culvert, and another for the installation.

Quotations for the supply of the box culvert for Contract 2003-53, Panache Lake Road Emergency Culvert Replacement were opened at Operations Division, Frobisher Depot, Monday, July 21, 2003, as follows:

BIDDER	TOTAL $ TENDERED AMOUNT		
	4200 x 3000 Concrete box	3600 x 3000 concrete box	3000 x 2100 twin concrete box
Boucher Precast Concrete Limited	**$71,760.00**	**$80,040.00**	**$110,400.00**
Rainbow Concrete Industries	$126,546.00	$104,328.00	$179,480.00
Con Cast Pipe	$168,376.06	$160,532.46	$120,507.21
Hanson Pipe & Products Canada Inc.	no bid	no bid	$142,717.12

All quotations have been reviewed and found to be in order.

The lowest quotation meeting all contract specifications was submitted by Boucher Precast Concrete Industries in the amount of $71,760.00 and is recommended for approval.

Tenders for the installation of the box culvert for Contract 2003-53, Panache Lake Road Emergency Culvert Replacement were opened at the Tender Opening Committee meeting at 2:30 p.m., local time, Wednesday, August 6, 2003, as follows:

BIDDER	TOTAL $ TENDERED AMOUNT
Garson Pipe Contractors Limited	166,283.03
R. M. Belanger Limited	171,240.66
Interpaving Limited	194,665.10
Nor Eng Construction & Engineering Inc.	197,736.00
Teranorth Construction & Engineering Limited	228,049.10

All tenders have been reviewed and found to be in order.

The lowest tender meeting all contract specifications was submitted by Garson Pipe Contractors Limited, in the tendered amount of $166,283.03 and is recommended for approval.

The Engineer's estimate for this tender is $145,000.00.

This is an unbudgeted repair, to be funded from the 2003 Roads Maintenance Budget.

Request for Decision
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Type of Decision

Meeting Date	August 12, 2003					Report Date	August 6, 2003			
Decision Requested	X	Yes		No		Priority	X	High		Low
		Direction Only				Type of Meeting	X	Open		Closed

Report Title

Updating the Flat Rate Tipping Fees

Policy Implication + Budget Impact

	This report and recommendation(s) have been reviewed by the Finance Division and the funding source has been identified.
X	Background Attached

Recommendation

That the General Manager of Public Works be authorized to proceed with the necessary requirements to update the flat rate tipping fee system.

	Recommendation Continued

Recommended by the General Manager

D. Bélisle,
General Manager of Public Works

Recommended by the C.A.O.

M. Mieto,
Chief Administrative Officer

Title: Updating the Flat Rate Tipping Fees

Date: August 6, 2003

Report Prepared By	Division Review
C. Mathieu, Manager of Waste Management	

Staff is seeking approval to proceed to review and update the flat rate tipping fee system for landfill site users (i.e. establishing lower fees for vehicles with capacities less than one tonne).

A few new procedures under the Municipal Act, and regulations are required prior to passing a bylaw to impose/amend fees.

Staff would be required to review the fees and to ensure that notices are placed and that a public meeting is held to review the changes.

The public and Council will have an opportunity to review and comment on the changes prior to passing the bylaw.

This process will not include a review of residential landfill tipping fee exemption limits. Exemption limits will be discussed as part of the Waste Optimization Study.

Request for Decision
City Council

Greater | Grand Sudbury
www.city.greatersudbury.on.ca

Type of Decision

Meeting Date	August 12, 2003				Report Date	August 6, 2003			
Decision Requested	X	Yes		No	Priority	X	High		Low
		Direction Only			Type of Meeting	X	Open		Closed

Report Title

Water and Gas Monitoring: Landfill Sites

Policy Implication + Budget Impact

	This report and recommendation(s) have been reviewed by the Finance Division and the funding source has been identified.

X	Background Attached

Recommendation

That the General Manager of Public Works and the Clerk be authorized to execute an engineering agreement with Golder Associates to conduct work at the City's landfill sites in accordance with the recommendations of the 2002 Annual Monitoring Reports.

	Recommendation Continued

Recommended by the General Manager

D. Bélisle,
General Manager of Public Works

Recommended by the C.A.O.

M. Mieto,
Chief Administrative Officer

171

Revised: January 8, 2003

Title: Water and Gas Monitoring: Landfill Sites

Date: August 6, 2003

Report Prepared By	Division Review
C. Mathieu, Manager of Waste Management	

In the 2002 Annual Monitoring reports for the City's waste disposal sites, Golder Associates identified a series of works and studies which the City should undertake to ensure that the sites continue to be in compliance with applicable regulations and requirements.

SITE	WORK/STUDY
Sudbury Landfill Site	• Install staff gauge at every surface water sampling location and survey these locations • Vegetative study
Nickel Centre Landfill Site	• Installation of two (2) additional monitoring well nests and borehole geophysic work
Onaping Falls Landfill Site	• no work required
Rayside-Balfour Landfill Site	• no work required
Valley East Landfill Site	• Installation of two (2) additional monitoring well nests and borehole geophysic work
Walden Landfill Site	• Installation of two (2) gas probes • Monitor gas levels at the passive gas vent locations

The estimated costs of these works/studies is $69,000 plus GST. Funding for this work is available from the 2003 Solid Waste Capital & Current Budget.

Staff is recommending that Golder Associates, the City's current monitoring contractor be appointed to complete the work.

Request for Decision
City Council

Greater | Grand Sudbury
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Type of Decision

Meeting Date	August 12, 2003				Report Date	August 5, 2003			
Decision Requested	x	Yes		No	Priority	x	High		Low
		Direction Only			Type of Meeting	x	Open		Closed

Report Title

Small Municipal Water Systems

Policy Implication + Budget Impact

x	This report and recommendation(s) have been reviewed by the Finance Division and the funding source has been identified.

X	Background Attached

Recommendation

That City staff proceed with the necessary upgrading of municipally operated private water systems, with funding to be provided from the 2003 and 2004 Capital allocation for water.

	Recommendation Continued

Recommended by the General Manager

D. Bélisle
General Manager of Public Works

Recommended by the C.A.O.

M. Mieto
Chief Administrative Officer

Title: Small Municipal Water Systems
Date: August 5, 2003

Report Prepared By	Division Review
D. Bélisle General Manager of Public Works	

The City of Greater Sudbury owns and operates twenty-one (21) small water systems in areas where municipal water is not available. These systems provide water from lakes or wells to facilities such as playgrounds, parks, welcome centres, and cemeteries. Some systems disinfect and filter the water, while others provide no treatment whatsoever. A list of all systems and descriptions of the various treatments provided can be found at the end of the enclosed attachment.

The Province of Ontario has introduced numerous water quality Regulations since Walkerton, many of which apply to small private or publicly owned water systems. The City retained the firm of Dennis Consultants to examine each individual water system, determine what upgrades are required at each location to satisfy the Regulations, and develop cost estimates to bring the systems into compliance. In addition, they were asked to decipher what the sampling and analysis protocols and frequencies would be at all facilities, as well as the requirements for records retention and reporting to the Ministry of the Environment and the public.

Their findings can be found in the attached report, which is comprised of excerpts from the full report. The total cost of upgrades is estimated at $318,000, plus any additional costs that may emanate from the required hydrogeological studies.

I suspect the ultimate costs will be in the order of $500,000, plus about $80,000 per year in operating costs for inspection, sampling, lab analysis, and repairs. Both the capital and operating costs are to be funded from the City's Water Budget, even though the City does not charge for water at any of these facilities.

The upgrades are required by July 2004, so we will begin work this year. For Council's information, City staff have been sampling all locations since the Regulations were announced, even though this was not legally required until July 2004. It so happens that two locations, Kalmo Beach and Meatbird Lake Park yielded bad results this summer, and we have immediately installed disinfection and filtration equipment which cleared up the problems. While these quick fixes eliminated the bacteria contamination, these two systems still require substantial upgrading to comply with the Regulations.

The 2003 Capital Budget for water provided an allocation of $1,400,000 for upgrading municipal water systems to comply with the new Safe Drinking Water Act. A similar allocation will be proposed in 2004.

Attachment.

Greater Grand Sudbury

Small Water Systems Compliance Review

FOR

City of Greater Sudbury

Final Report Revised
July 2003

DENNIS CONSULTANTS
CIVIL ENGINEERS
a division of R.V. Anderson Associates Limited

SMALL WATER SYSTEMS COMPLIANCE

FINAL REPORT
(Revised)

Prepared for:

City of Greater Sudbury
Box 5000, Station A,
Sudbury, Ontario
P3A 5P3

"This report was prepared by Dennis Consultants a division of R. V. Anderson Associates Limited for the account of the City of Greater Sudbury. The material in it reflects our best judgment in light of the information available to it at the time of preparation. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. We accept no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report."

DENNIS CONSULTANTS
CIVIL ENGINEERS
a division of R.V. Anderson Associates Limited

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DC 5911
July 18, 2003

TABLE OF CONTENTS

1.0 INTRODUCTION

1.1 General

The City of Greater Sudbury has recently adopted a number of private water systems serving a variety of community facilities. These facilities are owned and/or operated by the Municipality and may be subject to current Provincial Regulations. The City wishes to inventory the noted facilities, so as to obtain a better understanding of their obligations under the regulations, understand the condition of the current systems and upgrading requirements, if any, to achieve compliance.

A proposal, prepared by Dennis Consultants, was provided to the City of Greater Sudbury on November 19, 2002 to provide for a review and reporting on the various systems.

The phase 1, scope of work outlined in the proposal included the following:

- A field review and inventory of the water systems to determine which regulation the systems falls under;
- Provide recommendations and cost estimates on future upgrades that may be required to achieve compliance;
- Provide a full description of the facility, well location, site plan and wellhead description;
- Provide a description of the existing treatment facility (if any); and
- Provide recommendations for initial compliance and ongoing compliance.

Phase 1 of above proposal was accepted by the City and direction to proceed with the described work was issued on November 21, 2002.

As identified in our Final Report, dated March 28, 2003, the Provincial Government was in the process of revising O.Reg. 505/01 and O.Reg 459/00 governing drinking water in Ontario.

The proposed "Drinking Water Protection Regulation" was introduced to combine the requirements of existing regulations. The Final Report was written to include comments based on these proposed regulations with the intention of providing the City with some idea of the future requirements that may affect the facilities reviewed.

As of May 2, 2003, Ontario Regulation 170/03, "Drinking Water Systems" was released, replacing the proposed "Drinking Water Protection Regulation". O.Reg 170/03 became effective June 1, 2003. This Final Report has been updated at the request of the City, to reflect the requirements of the recently released regulations, in accordance with the described work program for Phase 1, and is intended to replace the Final Report dated March 28, 2003.

1.2 Applicable Regulations

The twenty-two (22) facilities and their water systems were reviewed for compliance with Ontario Regulations 170/03, "Drinking Water Systems", amendments and parallel regulations such as O.Reg 171/03, O.Reg 172/03 and O.Reg 173/03 governing drinking water.

In addition to the above, the facilities were reviewed for compliance with Section 34 and 52 of the Ontario Water Resources Act (OWRA), which requires a system capable of providing water at a rate greater than 50,000 litres per day to obtain Approval to operate the facility and a Permit To Take Water (PTTW).

2.0 COMPLIANCE WITH THE REGULATIONS

2.1 Ontario Regulation 170/03

Ontario Regulation 170/03 "Drinking Water Systems" and subsequent amendments governing the supply of drinking water in Ontario became effective on June 1, 2003. This regulation made under the Safe Drinking Water Act combines the requirements of O.Reg 459/00 and O.Reg 505/01 while making numerous changes to how water supply and treatment is governed in Ontario.

The regulation has established eight (8) classifications for water systems under which the water works and facilities are to be categorized, and includes various schedules for treatment, operating, testing, reporting and engineering evaluations, that pertain to the classifications.

The twenty-two (22) City facilities reviewed were found to have a number of applications. Twelve (12) of the facilities are used to provide services to the public and consist of ski hills, community centres, playgrounds and tourist information centers. Five (5) are municipal buildings such as maintenance departments and fire stations, two (2) are used for irrigation at cemeteries, and one (1), Old Skead Road Storage Building, has been abandoned.

The remaining two (2) facilities, Camp Sudacca and Camp Wassakwa are operated, in our opinion, as children's day camps during the summer months and are reported to remain in use in the off-season.

From our interpretation of the Regulation, numerous discussions with the MOE regarding clarification of the requirements of the Regulation and our review of each facility we have classified fourteen (14) of the facilities as one of the following:

i) *"Small Municipal Non-Residential Systems"* has been defined as: a "municipal drinking-water system that does not serve a major residential development, is not capable of supplying drinking water at a rare of more than 2.9 litres per second (250,000 L/d) and serves a designated facility or public facility"; or

ii) *"Small Non-Municipal Non-Residential System"* has been defined as: a "non-municipal drinking-water system that is not capable of supplying drinking water at a rate of more than 2.9 litres per second (250,000 L/d) serves a designated facility or public facility and does not serve";

a) a major residential development,
b) a campground or trailer park that has more than five service connections.

The Safe Drinking Water Act defines a "municipal drinking water system" as a drinking water system or part of a drinking water system, that is:

a) owned by a municipality or by a municipal service board established under Section 195 of the Municipal Act, 2001;
b) owned by a corporation established under Section 203 of the Municipal Act, 2001;
c) from which a municipality obtains or will obtain water under the terms of a contract between the municipality and the owner of the system; or
d) or that is in a prescribed class (reseau municipal d'eau potable).

Based on our interpretation of this definition we have assumed the facilities would be classified as ***" Small Municipal – Non Residential (SMNR) Systems".***

It is worth noting that *"Small Non-Municipal Non-Residential Systems"* are considered regulated facilities under the regulation and the minimum level of treatment and compliance requirements are similar to those for *"Small Municipal Non-Residential Systems".*

Under the *"Small Municipal – Non Residential Systems"* classification, the facilities can be categorized as either ***"Designated Facilities"*** or ***"Public Facilities"***.

Designated Facilities have been defined under O.Reg. 170/03 to include such facilities as children's day camps, delivery agent care facility, a health care facility, a school, social care facility or university.

Furthermore, Children's Day Camp has been defined as: "a recreational camp, which only admits children under the age of 18 as campers which is a Class "A" camp or a Class "B" camp with in the meaning of the Regulation 568".

Regulation 568, specifies clear uses for the class of camp and considers the type of structure that is established as living quarters at the facility, the duration of occupancy and number of persons.

Based on our conversations with the City regarding Camp Sudacca and Camp Wasakawa, we understand that these facilities have multiple uses. The camps are used for day programs and also rented out to social groups. We also understand that the facilities may in the future endeavor to facilitate recreational programs that may include stay-over durations of 5 or more consecutive days for 10 or more people. On this basis we suggest that the City classify these facilities as ***"Designated Facilities"*** at this time.

Public Facilities are defined under O.Reg. 170/03 as follows:

a) food premises, as defined in the *Health Protection and Promotion Act;*
b) a place that provides overnight accommodation to the traveling public;
c) a trailer park or campground – 249/03;
d) a marina;
e) a church, mosque, synagogue, temple or other place of worship;
f) a recreational camp;
g) a recreational or athletic facility;
h) a place, other than a private residence, where a service club or fraternal organization meets on a regular basis; or
i) ***any place where the general public has access to a washroom, drinking water fountain or shower***,

Public facilities constitute twelve (12) of the City's facilities classified as "*Small Municipal Non-Residential Systems".*

Facilities such as fire stations, maintenance depots and cemeteries are not included or regulated under the current O.Reg. 170/03, however, they remain under the jurisdiction of the Ontario Water Resources Act and will be discussed in Section 2.2 of this report.

2.2 Ontario Water Resources Act

The Ontario Water Resources Act (OWRA) 1990, prior to the development of the Safe Drinking Water Act, provided the vehicle for which government issued Approvals and Permits to Take Water for water systems in Ontario.

Section 34 of the OWRA, refers to the "Taking of Water" and stipulates that water works drawing more than 50,000 L/d, by means of well, or wells, inlet or inlets from surface water or a structure or any combination of the above be required to obtain a permit issued by the Director.

Section 52 of the OWRA, stipulated that "no person shall establish, alter, extend, or replace new or existing water works except under and in accordance with an Approval governed by the Director".

Section 52 applies to systems / water works providing water for human consumption, in excess of 50,000 L/d rated capacity, used for facilities other than private residences. Specifically the exemptions for Section 52 are as follows:

a) a water works to be used only for supplying of water, for agricultural, commercial or industrial purposes, that is not required under any Act or regulation to be fit for human consumption;
b) a water works not capable of supplying water at a rate greater than 50,000 litres per day;
c) a privately-owned water works to be used to supply water only for five or fewer private residences; and

d) such water works as may be exempted therefrom by regulations made under this Act. R.S.O. 1990, c. O.40,s.52.

It is our understanding, based on discussion with MOE, that facilities not addressed in O.Reg. 170/03 may still be governed by the requirements of the OWRA, depending on the type of use.

Based on these requirements, the maintenance depot and fire stations would be required to obtain a Permit To Take Water (PTTW) and Approval under Section 52. Cemeteries using water for irrigation only, would require a PTTW if the rated capacity is equal to or exceeds 50,000 L/d

Furthermore facilities governed by O.Reg. 170/03, are still required to obtain a PTTW under the OWRA where the rated capacity is in excess of 50,000 L/d.

At this time we are uncertain as to the requirements to provide treatment, operate and sample facilities requiring Approval under the OWRA. From our discussion with MOE, it is believed that the Approvals will revert back to the old C of A format, and list only the equipment and treatment system, if any, at the facility. However, there is some uncertainty regarding how Approval, for both OWRA and O.Reg. 170/03 systems will develop.

2.3 Requirements of O.Reg. 170/03

O.Reg. 170/03 contains twenty-four (24) schedules, which are applicable to the various classifications. The schedules contain specific information as to how the facility is to be operated, monitored, minimum treatment requirements, operational checks, reporting, sampling etc. Part 4 of the Regulation summarizes the applicable schedules for each class of system. The following excerpt from the Table of Schedules summarizes the Schedule Applicable to "Small Municipal – Non Residential Systems".

Item	Drinking Water Systems	Applicable Schedules				
		Treatment	Operational Checks, Sampling and Testing	Adverse Test Results and other Problems	Reports	Chemical Testing Parameters
4.	Small Municipal - Non Residential Systems	2,3,5	6,9,12,14	16,18,19	21	23,24

Generally speaking, the schedules can be categorized into General Requirements, and Operating and Treatment Requirements. Typically these will include:

General Requirements

- Inspections be done (and recorded) by a trained person;
- Regular sampling for water quality;
- Use an accredited laboratory for water analysis;
- Notification procedures in the event of adverse water quality (MOE,MOH, Medical Officer of Health);
- In the event of adverse water quality take corrective action to protect the users of the water. Post warning notices if required;
- Make information available to water users (i.e. lab results and annual reports);
- Annual reporting on the water works and water quality and document retention;
- Notify the interested Authority (Ministry of Health) of adverse water quality events and of non-compliance.

Operating and Minimum Level of Treatment

- Provide the required level of treatment for the class of system (i.e. disinfection for a groundwater source, disinfection and filtration for a surface water source);

- Wells are to be constructed and maintained to prevent entry of surface water and foreign material;
- Ensure that water treatment equipment is operated in compliance with Regulations, specifically Schedule 2;
- Ensure that water treatment equipment is operated in compliance with Schedule 6, 8, and 9;
- Water treatment equipment be properly maintained;
- Flush all systems after periods of non-use, such as weekends or extended shutdowns;
- Adequate supply of chemicals and other supplies be available and be properly labeled, kept near equipment but separate from other supplies that are not for the water system;
- Replacement parts be kept nearby; and
- Facilities shall be operated and tested by a trained person. A ***trained person*** is defined as a certified operator or, a person who in the preceding months successfully completed a course approved by the Director that relates to the operation and routine maintenance of drinking water systems. For a SMNR classification, adjustments to the water treatment system including operational checks and sampling are to be carried out only by a "trained person". A transition period has been provided in the regulations that deem a trained person to be any person until equipment required for compliance with the treatment requirements is in operation.

For specific details regarding the above requirements, reference to the Regulation should be made.

2.3.1 Treatment Requirements

Schedules 2, 3 and 5 deal specifically with the requirements to provide a minimum level of treatment based on the class of facility and are summarized as follows:

- Systems using ground water not under the influence of surface water require primary disinfection consisting of chlorination or UV disinfection.

- Facilities with a distribution system must provide a chlorine residual throughout the distribution system or point of entry treatment.

- Systems using surface water or ground water under the influence of surface water require filtration plus primary disinfection.

The minimum treatment requirements for each facility are listed in Section 3.0 and summarized in Table 3.0.

2.3.2 Operating and Monitoring Requirements

Operational Checks, Monitoring Requirements and Sampling and Testing Requirements listed in O.Reg 170/03 Schedule 6, 9, 12, and 14, and applicable to the SMNR classification are summarized as follows:

➢ **Schedule 6 – Operational Checks, Sampling and Testing-General**

Schedule 6 stipulates the general requirements for the SMNR classifications. Requirements such as form of sampling, location, specifics regarding continuous monitoring and frequencies are listed as well as sample handling and units of measurement for testing and laboratory testing.

Of interest in this Schedule are the requirements for recording sample information, for both grab samples and continuous monitoring system.

Continuous monitoring is required for turbidity on surface water systems, chlorine residual for systems using chlorine, and UV performance. Water works using continuous monitoring must have the capability or it is "strongly recommended", that the capability be provided, to record monitoring data and alarm continuous analyzers.

Parameters such as; chlorine residual are to be tested and recorded every 5 minutes, turbidity tested and recorded every 15 minutes, and UV monitored and alarmed in the event of a power failure, equipment malfunction or inappropriate level of disinfection.

It is our understanding that this data along with sampling results, records, or reporting related to a test required under the Schedules 6 to 12 is required are be kept for fifteen (15) years in accordance with Schedule 13 of O.Reg. 170/03.

- **Schedule 9 - Operational Checks**

1. Equipment maintenance shall be carried out in accordance with the recommendation of the Engineer's Evaluation and/or the Maintenance Schedule or in accordance with the manufacturers instructions, and are to be complied with by a "trained person".

   In lieu of the above, water systems that use chlorination / chloramination, are to be checked weekly.

   If no chlorination / chloramination is used, operational checks are required to be performed every three (3) months by a trained person to confirm proper functioning of the equipment.

2. Chlorine Residual

   For systems using chlorine as a primary disinfectant, a water sample should be taken daily and tested for free chlorine residual.

3. Turbidity

   Drinking water systems obtaining raw water from surface water require daily sampling for turbidity until the equipment required for compliance commences operation, at which time continuous monitoring is required.

Exceptions – testing for Designated/Potable Facilities is only required on days in which the facilities are open.

➢ **Schedule 12 - Microbiological Sampling and Testing**

1. Distribution Samples

- If chlorination / chloramination is provided, bi-weekly sampling is required for:
  - Total Coliforms
  - Escherichia coli (E. coli)
  - Heterotrophic Plate Count

- If chlorination / chloramination is not provided, weekly sampling is required for:
  - Total Coliforms
  - Escherichia coli (E. coli)
  - Heterotrophic Plate Count

2. Raw Water Samples

Raw water samples shall be taken monthly before treatment is applied. For a raw water supply that is ground water, a sample shall be taken from each well.

- Samples shall be tested for:
  - Total Coliforms
  - Escherichia coli (E. coli)

➢ **Schedule 14 - Chemical Sampling and Testing**

Chemical sampling shall consist of the following at the frequencies noted:

- Inorganics /organics every 60 months

- Lead every 60 months
- Trihalomethanes every 3 months
- Nitrate / Nitrite every 3 months
- Sodium every 60 months
- Fluoride (if not used as treatment) every 60 months

Assuming no prior sampling for the above has been performed, the "first test" for the facilities discussed in this report is required to be performed by June 1, 2004, or within 12 months of the issuance of O.Reg. 170/03.

Refer to Table 3.0 for the specific deadlines for meeting these minimum treatment requirements and water quality testing at each facility.

2.3.3 Written Notice & Engineers Report

- If the water works commenced operation before June 2003, and does not meet the minimum treatment and equipment requirements outlined in the Regulation, the owner must submit a written notice declaring the current non-compliance, and planned actions to meet minimum treatment requirements or the Owner's intention to apply for relief of exemption. The submission deadline for the written notice is July 1, 2004.

- Schedule 21 - Engineer's Evaluation requires an evaluation of the system be submitted to MOE, stating that the water treatment equipment now complies with the requirements of O.Reg. 170/03. The submission deadline for an Engineer's Evaluation is within 30 days of the compliance deadline. For designated facilities the deadline is July 31, 2004, for Public Facilities on ground water, January 31, 2007, and for public facilities on surface water, July 31, 2005.

4.0 UPGRADING REQUIREMENTS/ALTERNATIVES

Based on the regulations, a general list of required work and upgrades has been provided for each facility and summarized in Table 3.0. In each case the need for water quality analysis has been identified. This is necessary to classify the raw water, substantiate the recommended upgrades and identify any water quality concerns.

A hydrogeological study is also identified for some of the facilities. This is due to the proximity of the septic systems to the water supply and the vulnerability of the water supplies to surface water contamination.

Where the capacity of the specific facility is greater than 50,000l/day, a Permit to Take Water is required and if applicable, Approval under the OWRA.

The required upgrades listed for each system are ***a minimum only***, and assume favourable water quality. Only after the water quality analysis and hydrogeological studies are done, can a complete upgrade list be provided.

The option of posting "warning notices" in lieu of performing upgrades as described in the proposed version of the Regulation has been removed for facilities governed by O.Reg 170/03.

Under O.Reg 170/03 posting of warning notices is only permitted in the event that adverse water quality is encountered or sampling and analysis is not completed in accordance with the Reg. Notices are required until such time as the corrective action is taken. The Regulation assumes that the system is capable of providing the minimum level of treatment stipulated.

Facilities not governed by the Regulation would be required to comply with any Act or Regulation that governs the supply of potable water to users of the systems.

Acts or Regulations that may apply in this case are the Ontario Building Code (OBC) and the regulations governing public health. The OBC permits the use of non-potable water for flushing of water closets and urinals but states in Section 7.7.3.2, "an outlet from a

non-potable system shall not be located where it can be discharged into, a sink or lavatory, or fixture into which an outlet from potable water is discharged or a fixture that is used for the preparation, handling or dispensing of food..." .

The local Health Department has a somewhat different opinion, and will accept non-potable water at sinks and lavatories for sanitation purposes, washing of hands, etc, as long as the fixture is posted.

Based on the requirements of the OBC, facilities such as fire stations and maintenance departments will require potable water. We suggest the City consider upgrading these facilities to provide treatment and operate using the O.Reg. 170/03 as a guide. Water used at the cemeteries for irrigation purposes should be posted, however we have not been able to verify that this is acceptable under the Regulations.

We understand that the City is currently discussing the requirements of the OBC with their Building Services Group and have requested an interpretation on this issue.

4.1 Engineers Report

The purpose of the Engineers Report is to notify the Owner and inform them of the status of compliance with minimum treatment and equipment requirements, certify that minimum treatment requirements listed in Schedule 2 are being complied with and certify that all equipment is provided to ensure compliance with the sampling and operational checks required as listed in Schedules 6, 8 and 9.

The Owner in turn is required to inform the Director and interested authorities, if a designated facility, and describe any changes that have occurred with respect to the information provided in the Notice. Child day camps are exempt from this requirement.

Typically the Engineers evaluation is required to be completed 30 days after the facility commences operation or the alteration is complete. Based on our classification of the two (2) Child Day Camps, an Engineers Evaluation is required for these facilities by July 31, 2004.

The remaining twelve (12) regulated water sites are separated into groundwater and surfacewater facilities. Groundwater facilities are required to submit an Engineers Evaluation by January 31, 2007 and surface water facilities by July 31, 2005.

4.2 Estimated Costs

Estimated costs have been provided to upgrade each facility in accordance with the minimum requirements of O.Reg. 170/03.

Upgrading costs have also been provided for facilities not regulated by O.Reg. 170/03. For these facilities the requirements of O.Reg. were used as a guide to determine the upgrades and the associated cost.

The costs provided are an "order of magnitude" estimate of the required upgrading work based on the assumption of favourable water quality analysis and hydrogeological study.

The costs include materials and labour to install and supply the recommended upgrades, including a 15% contingency allowance, water quality analysis, hydrogeological study if necessary and completion of an Engineers Report. Construction of new wells is based on a depth of 50 m, complete with steel casing and new well pump.

ESTIMATED COST OF TESTING AND ADDITIONAL STUDIES	$ 61,500.00
ESTIMATED COST TO UPGRADE FACILITYS	$256,600.00
TOTAL ESTIMATED COST OF UPGRADES	**$ 318,100.00**

Alternative cost options, engineering design costs, and G.S.T. have not been included.

The City may wish to revise the estimated cost based on decisions to maintain, upgrade and/or abandon individual facilities in accordance with the alternatives provided.

5.0 RECOMMENDATIONS

We recommend the City proceed with the following work:

- Operate / test / monitor in accordance with the requirements of O.Reg 170/03. For those facilities not governed by the Regulation, we suggest the City use the Regulation as a guide to operate the facility.

- Give notice to the Director and advise as to the direction the City intends on proceeding. (i.e. Comply with Reg, apply for relief, pos, etc).

- Conduct water quality testing and hydrogeological work where applicable to categorize the raw water and determine if the facility is under the influence of surface water.

- Building plumbing systems should be reviewed to ensure compliance with the latest building (plumbing) code requirements with respect to the backflow prevention and cross connections.

- Develop new water supplies where required.

- Design and implementation of treatment systems in accordance with the raw water characterization and minimum treatment required.

- Apply for Permit to Take Water and OWRA approval where requirements of O.Reg. 170/03.

- Post irrigation systems at cemeteries.

- Complete an Engineer's Evaluation of the system.

6.0 CLOSURE

We trust that this report meets your current needs. Should you require further information, please do not hesitate to contact the undersigned.

Yours truly,

DENNIS CONSULTANTS, a division of R.V. Anderson Associates Limited.

Shawn N. Scott, P.Eng
Project Manager
sns/ad/ww

Armand A. Therrien, CET
Regional Manager

7.0 REFERENCES

O. Regulation 170/03 Drinking Water Systems Regulation made under the Safe Drinking Water Act, 2003.

Terms of Reference, Hydrogeotlogical study to Examine Groundwater Sources Potentially Under Direct Influence of Surface Water, October 2001.

Ontario Regulation 903, Regulation Made under the Ontario Water Resources Act, 1990, Wells.

Ontario Regulation 435/93, Regulation Made Under the Ontario Water Resources Act, 1993, Water Works and Sewage Works.

Ontario Building Code, 1997, Part 7, Plumbing Section 7.6 Potable Water Systems, Section 7.7 Non-Potable Water.

Proposed New Drinking Water Protection Regulation – Drinking Water Systems under the Safe Drinking Water Act January 2003, for Discussion Purposes only.

Ontario Regulation 568, Health Protection and Promotion Act, R.R.O. 1990, Recreational Camps

Day Nurseries Act, R.S.O. 1990

July 18, 2003 TABLE 3.0 - REVISED SUMMARY OF THE SMALL WATER SYSTEMS
CITY OF GREATER SUDBURY

	FACILITY	Reg. 170/03 System Classification	Water Source	Treatment Description	Approx.Rated Pump Capacity L/hr (L/day)	Usage	Supply Volume L/day (Less than 250,000 L/Day)	Notice to Comply or Apply for Relief (Deadline) 170/03 & Amendments Drinking Water Systems	Minimum Required / Recommended Plant Upgrades	Cost of Additional Studies Reports	Cost to Upgrade Facility (Estimate)	Total Estimated Cost
1	Camp Sudacca	Small Municipal Non-Residential ***"Designated Facility - Child Day Camp"***	Ramsey Lake (surface water)	UV Disinfection @ Lake. UV Disinfection and water filter @ camp.	1885 (45240)	Occasional use, assumed 12hrs/day Operation -Potable water	22620	July 1/2004	-Install Filtration. -Replace UV - Install turbidity & chlorine residual analyzer and data recorder	$3,500.	$33,500.	$37,000.
2	Camp Wassakwa – Log Cabin & Multi-purpose Bldg.	Small Municipal Non-Residential ***"Designated Facility - Child Day Camp"***	Bass Lake (surface water)	UV Disinfection and Standard Water Filter	1136 (27264)	Occasional use, assumed 12hrs/day Operation. -Potable water	13632	July 1/2004	-Install Filtration. -Replace UV - Install turbidity analyzer & data recorder	$3,500.	$22,000.	$25,500.
3	Capreol Ski Chalet & Canteen	Small Municipal Non-Residential ***"Public Facility"***	Drilled Well (GUDI)	None	2687 (64488)	Occasional use, assumed 12hrs/day Operation -Potable water	32244	July 1/2004	-Extend Well Casing. -Install UV - Install data recorder	$5,500.	$12,000.	$17,500.
4	Den Lou Playground/ Walden West Branch Library	Small Municipal Non-Residential ***"Public Facility"***	Dug Well (GUDI)	Standard Water Filter on Kitchen Sink.	2195 (52680)	Occasional use, assumed 12hrs/day Operation. -Potable water	26340	July 1/2004	-New Drilled Well -Install UV - Install data recorder	$3,500.	$26,200.	$29,700.
5	Ella Lake Park	Small Municipal Non-Residential ***"Public Facility"***	Drilled Well – 300' (Ground water)	Standard Water Filter on some Hose Bibs	1340 (32160)	Occasional use, assumed 12hrs/day Operation. -Potable water	16080	July 1/2004	-Extend Well Casing. -Install UV - Install data recorder	$3,500.	$13,500.	$17,000.
6	Fielding Memorial Park	Small Municipal Non-Residential ***"Public Facility"***	Drilled Well – 225' (Ground Water)	UV Disinfection water softener /filter and Pre-chlorination	1911 (45864)	Occasional use, assumed 12hrs/day Operation. -Potable water.	22932	July 1/2004	Replace UV - Install chlorine residual analyzer - Install data recorder	$3,500.	$14,700.	$18,200.
7	Kalmo Beach Changehouse & Washrooms	Small Municipal Non-Residential ***"Public Facility"***	Whitson Lake (surface water)	None	3179 (76296)	Occasional use, assumed 12hrs/day Operation. -Potable water	38148	July 1/2004	- Install Filtration - Install UV - Install turbidity analyzer - Install data recorder	$3,500.	$21,500.	$25,000.

July 18, 2003 TABLE 3.0 - REVISED SUMMARY OF THE SMALL WATER SYSTEMS
CITY OF GREATER SUDBURY

	FACILITY	Reg. 170/03 System Classification	Water Source	Treatment Description	Approx.Rated Pump Capacity L/hr (L/day)	Usage	Supply Volume L/day (Less than 250,000 L/Day)	Notice to Comply or Apply for Relief (Deadline) 170/03 & Amendments Drinking Water Systems	Minimum Required / Recommended Plant Upgrades	Cost of Additional Studies Reports	Cost to Upgrade Facility (Estimate)	Total Estimated Cost
8	Long Lake Playground	Small Municipal Non-Residential ***"Public Facility"***	Long Lake (surface water)	UV Disinfection and Water Softener/filter	Unknown	Occasional use, assumed 12hrs/day Operation. -Potable water	Unknown	July 1/2004	Install filtration - Replace UV - Install turbidity analyzer - Install data recorder	$3,500.	$21,300.	$24,800.
9	McFarlane Lake Playground	Small Municipal Non-Residential ***"Public Facility"***	Drilled Well – Shared well with Old School. (GUDI)	Water Filter	2914 (69936)	Occasional use, assumed 12hrs/day operation. -Potable water	34968	July 1/2004	- Install UV - Install data recorder	$5,500.	$13,600.	$19,100.
10	Meatbird Lake Park	Small Municipal Non-Residential ***"Public Facility"***	Meatbird Lake (surface water)	Standard Water filter and UV Disinfection	2180 (52320)	Occasional use, assumed 12hrs/day operation. -Potable water	26160	July 1/2004	- Connect to municipal supply See Note 4 .	$3,500.	$9,500.	$13,000.
11	Old Skead Road Storage Building	N/A	Building has been Abandoned	Building Has been Abandoned							$2,000.	$2,000.
12	Maple Crest Cemetery Bldg.	N/A	Drilled Well Depth Unknown (Ground water)	None	3179 (76296)	Occasional use, assumed 12hrs/day operation. -Irrigation	38148	N/A	- Posting	$0.00	$100.	$100.
13	St. Jacques Cemetery.	N/A	Well point	None	Unknown	Occasional use, assumed 12hrs/day operation. -Irrigation	Unknown	N/A	- Posting	$0.00	$100.	$100.
14	Valley East Cemetery	N/A	Drilled Well – 260', (Ground water) and Well Point (GUDI)	None None	2006 (48144)	Occasional use, assumed 12hrs/day operation. -Potable water -Irrigation	24072	N/A	-Extend Well Casing. - Install UV	$0.00	$4,600.	$4,600.
15	Skead Fire Station	N/A	Drilled Well – 100' (Ground water) (GUDI)	None	2195 (52680)	Occasional use, assumed 12hrs/day operation. -Potable water	26340	N/A	-Extend Well Casing. - Install UV	$2,000.	$4,600.	$6,600.
16	Beaver Lake Fire Station	N/A	Drilled Well – 175', Shared with Welcome Centre (Ground water) (GUDI)	Water Filter and Water Softener	2195 (52680)	Occasional use, assumed 12 hrs Day Operation. -Potable water	26340	N/A	-See Note 5 -Extend Well Casing. - Install UV	$2,000.	$6,000.	$8,000.

July 18, 2003 TABLE 3.0 - REVISED SUMMARY OF THE SMALL WATER SYSTEMS
CITY OF GREATER SUDBURY

	FACILITY	Reg. 170/03 System Classification	Water Source	Treatment Description	Approx.Rated Pump Capacity L/hr (L/day)	Usage	Supply Volume L/day (Less than 250,000 L/Day)	Notice to Comply or Apply for Relief (Deadline) 170/03 & Amendments Drinking Water Systems	Minimum Required / Recommended Plant Upgrades	Cost of Additional Studies Reports	Cost to Upgrade Facility (Estimate)	Total Estimated Cost
17	Red Deer Lake Fire Station	N/A	Dug Well Concrete well tile.	Standard Water Filter	1135 (27240)	Occasional use, assumed 12hrs/day Operation. -Potable water	13620	N/A	-New Drilled Well - Install UV	$0.00	$17,000.	$17,000.
18	Skead Public Works Department Patrol Yard	N/A	Dug Well -Concrete well Tile. (GUDI)	None	2566 (61584)	Occasional use, assumed 12hrs/day Operation. -Potable water	30792	N/A	- Install UV	$2,000.	$3,000.	$5,000.
19	Welcome Centre A.Y. Jackson Lookout	Small Municipal Non-Residential ***"Public Facility"***	Drilled Well – 200' (Ground water) (GUDI)	Water Filter	1627 (39048)	Occasional use, assumed 12hrs/day Operation - Potable water	19524	July 1/2004	- Extend well casing - Install UV - Install data recorder	$5,500.	$12,000.	$17,500.
20	Welcome Centre Highway 69	Small Municipal Non-Residential ***"Public Facility"***	Drilled Well Depth unknown (Ground Water) (GUDI)	Permanent Sediment Filter, Water filter and UV Disinfection	1911 (45864)	Occasional use, assumed 12hrs/day Operation. -Potable water	22932	July 1/2004	-Extend Well Casing. - Replace UV	$5,500.	$5,800.	$11,300.
21	Welcome Centre Beaver Lake	Small Municipal Non-Residential ***"Public Facility"***	Drilled Well – 175', Shared With Beaver Fire Station (Ground Water) (GUDI)	None	2195 (52680)	Occasional use, assumed 12hrs/day Operation. -Potable water	26340	July 1/2004	See Note 5 -Extend Well Casing. -Install UV at both facilities - Install data recorder	$5,500.	$13,600.	$19,100.

NOTES:

1. Operating / testing and inspection frequencies are based on the current system and are subject to change upon completion of the upgrading requirements.
2. Recommend, as a minimum, City install UV and perform testing in accordance with Reg.170/03.
3. Fielding Park: City staff has noted that the water quality aesthetically has an odour and taste issue. The City may wish to conduct a GUDI study to access the well.
4. The approved testing/operating/reporting requirements in addition to the requirements to prepare an engineer's evaluation would no longer apply if connected to municipal water.
5. Upgrades to the well should be performed to secure the water service for the Welcome Centre.

Request for Decision
City Council

Greater | Grand Sudbury
www.city.greatersudbury.on.ca

Type of Decision

Meeting Date	August 12, 2003					Report Date	August 6, 2003			
Decision Requested	x	Yes		No		Priority	x	High		Low
		Direction Only				Type of Meeting	x	Open		Closed

Report Title

Flour Mill Business Improvement Area, Request to Paint Murals

Policy Implication + Budget Impact

	This report and recommendation(s) have been reviewed by the Finance Division and the funding source has been identified.

n/a

X	Background Attached

Recommendation

That the City permit the painting of murals on the Leslie Street bridge abutments by the Flour Mill Business Improvement Area.

	Recommendation Continued

Recommended by the General Manager

D. Bélisle
General Manager of Public Works

Recommended by the C.A.O.

Mark Mieto
Chief Administrative Officer

Report Prepared By	Division Review
D. Bélisle General Manager of Public Works	

We have received the enclosed request from the Co-ordinator of the Flour Mill Business Improvement Area. City staff have no objection to having murals painted on the abutments of the Leslie Street bridge. In the past, Council has approved similar requests from Myths and Mirrors and the Carrefour Francophone.

Attachment

Flour Mill Business Improvement Area
430 Notre Dame Ave. Suite 208
Sudbury, ON P3C 5K7

August 1, 2003

Mr. Don Bélisle, General Manger of Public Works
City of Greater Sudbury
PO Box 5000 Stn. A
200 Brady St.
Sudbury, ON P3A 5P3

Re: Leslie Street Bridge, Junction Creek Cleanup

Dear Mr. Bélisle

The Flour Mill Business Improvement Area (BIA) in conjunction with the Junction Creek Stewardship Committee and YMCA Employment & Career Services partnered to clean-up Junction Creek from the Leslie St. Bridge to Burger King on Notre Dame Avenue. The cleanup began on July 28 and wrapped up on August 1, 2003. Approximately 200 volunteer hours were dedicated to the cleanup.

As part of this cleanup, the Operations Division provided us with paint to cover-up the initial graffiti that was visible along the Trans-Canada Walking Trail. It is our intent to paint a mural on these walls that would reflect the Flour Mill community and Junction Creek restoration. We also would like to convert the walls opposite the murals into safe-walls where youth can freely and safely express themselves through self-censored artwork. Twice per year this safe-wall will also be covered up to provide the artist with a fresh canvass.

Beautification is one of the many responsibilities of the Flour Mill BIA. Our beautification initiatives this year have included hiring a grounds crew through the YMCA Employment & Career Services Community Placement Program, Adopt-a-Road Program and the restoration of the decorative lampposts in partnership with Greater Sudbury Hydro. Our youth have played an important role in helping us with these beautification initiatives, and will continue to play an important role in feature beautification activities.

We are partnering with "Myths and Mirrors" to assist us in developing this mural project and are kindly seeking concurrence from council. I will be meeting with Lori McGauley August 5th for plenary discussions. This mural project will be a definite addition to the beautification of the Flour Mill and will reflect our community along the walking trail. This project also compliments the "Cleanup Greater Sudbury" initiative and will make the area more inviting and aesthetically pleasing.

Again, we kindly seek concurrence from council and thank you and your staff for your continued support. I am available to make a presentation to council if required. The work that has already been done in the area is very noticeable. The response from community and business leaders, residents, media, and community partners has been fantastic. Should you have any comments or questions please call me at 671-6777.

Sincerely,

Derek Young, Coordinator
Flour Mill Business Improvement Area

cc: Mr. Dave Courtemanche

Greater Grand Sudbury

August 6, 2003

Your Worship Mayor Jim Gordon
and Members of Council

Dear Sirs:

City of Greater Sudbury
Ville du Grand Sudbury

3047 ELM STREET
VAL CARON ON P3N 1E8

3047 RUE ELM
VAL CARON ON P3N 1E8

705.897.6080
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PO BOX 5000 STN A
200 BRADY STREET
SUDBURY ON P3A 5P3

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SUDBURY ON P3A 5P3

705.671.2489
705.671.8118 Clerk's Fax /
Greffier Municipal
louise.portelance@city.greatersudbury.on.ca

www.
city.greatersudbury
.on.ca

RE: Request for Support for the Installation of Signalized Railway Crossings ("Wig-Wags") at Mile 263.18 of CN Rail`s Bala Subdivision at Maley Drive

Attached is a copy of correspondence received from Maureen Duhaime dated August 5th, 2003, directed to Transport Canada, which I believe was copied to all Members of Council.

In her correspondence, Mrs. Duhaime tells us of the tragic and untimely death of her son and the circumstances surrounding his death at the railway crossing at Maley Drive. She also attempts to educate the readers about the excessive speed at which trains are allowed to travel at this intersection, in contrast with other train crossings with the City of Greater Sudbury boundaries. Freight trains are apparently allowed to travel at 55 miles per hour and passenger trains are allowed to travel at 65 miles per hour. At other crossings within the City of Greater Sudbury boundaries, trains travel at a much slower rate of speed . Mrs. Duhaime proposes that gates be installed at this crossing and that the speed of the trains be reduced.

Due to the safety concerns raised in the attached correspondence, I feel that it is important that Council forward a Resolution petitioning the Canadian National Railway Company to install signalized railway crossings ("Wig-Wags") at the above-noted crossing and to reduce the speed of its trains.

I am therefore putting forth such a Motion this evening, and am requesting Council`s support for this Motion.

Sincerely yours,

Louise B Portelance

Deputy Mayor Louise B. Portelance
Councillor Ward 3
City of Greater Sudbury
LP/md

August ,5, 2003

Transport Canada
4900 Yonge Street
Surface 3rd Floor
North York, ON. M2N 6A5

ATTENTION: Mr. Denis Galarneau, Manager of Engineering

Dear Mr. Galarneau;

The purpose of this letter is to request a site meeting with Transport Canada, CN Rail and the City of Greater Sudbury.

There is a grade crossing equipped with flashing lights that I believe should have gates. My son was killed while walking (facing traffic as there are no sidewalks) on December 4, 2001 by a southbound freight train from Capreol traveling at 52 miles per hour. On that night there was zero visibility due to fog as confirmed with attached Environment Canada document.

The incident occurred at Mile 263.18 of CN Rail's Bala Subdivision at Maley Drive in Sudbury, Ontario. This is a mainline track within Sudbury's city limits and the maximum freight train speed is 55 miles per hour for freight trains and 65 miles per hour for passenger trains.

Every adult and child I have educated since this tragedy was stunned to learn of the maximum permissible speed at Maley Drive in contrast to the many other train crossings in town where trains travel much slower.

I believe that my son intended to stand in front of the flashing lights, however he probably did not realize they were on the far side of the tracks. Consequently, the train hit him. According to police he was "half-a-step away from safety". The train hit his hip and he was thrown a distance of 60 metres. It did not run him over. I believe the signal bungalow could have obscured his view of the approaching train. I am confident that if this crossing had gates that my son would be alive today.

A second reason that Maley Drive requires gates is the urban sprawl of both the Garson and New Sudbury areas creating larger volumes of vehicular and pedestrian traffic using Maley Drive that has traditionally been thought of as mostly an industrial area.

Please look at this so we can save a life by installing gates at Maley Drive. I would hope to be invited to the site meeting and would like to mention the Constable Saya of the Sudbury Regional Police verbally told me that they recommended gates be put up there. However there was no mention of it in the police report to me, so I am assuming there really wasn't a recommendation made at all.

Sincerely
Maureen Duhaime
148 Colonial Court
Sudbury, Ontario P3A 4X5
Phone: (705) 560-8482 Email: reendove@sympatico.ca.

COPIES OF THIS LETTER HAVE BEEN SENT TO THE FOLLOWING PEOPLE

Manager of Engineering for Transport Canada Mr. Denis Galarneau

Sudbury, Ontario
MARLEAU, Diane (Liberal) MP

Constituency Address
36 Elgin Street
Sudbury, Ontario
P3C 5B4
Telephone: (705) 673-7107
Fax: (705) 673-0944
E-Mail: marled1@parl.gc.ca

MPP BARTOLUCCI, Rick
LIB
Sudbury
Chief Opposition Whip

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100 Elm Street
Sudbury, Ontario
P3C 1T5
Telephone: (705) 675-1914
Fax: (705) 675-1456

rick_bartolucci-mpp@ontla.ola.org

MPP MARTEL, Shelley
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Nickel Belt
Children & Youth; Health; Seniors

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Fax: (705) 969-3538
Toll free: 1-877-280-9990

smartel-qp@ndp.on.ca

Mayor for City of Greater Sudbury JIM GORDON

All members of City Council for City of Greater Sudbury

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