



**The Corporation of the Municipality of Wawa  
Staff Monthly Report**

**Office of Infrastructure Services**

<b>Prepared For: Corporate Planning Committee Meeting</b>	<b>Report No.: CS 2017-13</b>
<b>Agenda Date: October 24, 2017</b>	<b>File No.: 9.40.4</b>

**Preamble**

The following report is based on items concerning the Municipality of Wawa that have been directed by the Infrastructure Services Department. This information is for the months of June, July, August and September, 2017.

**Summer Operations**

In June our spring operations continued to clean sand and debris from sidewalks and streets and installed summer signs. Grader operators have been working continuously on the gravel roads and more granular material has been added where required on the roads and shoulders, including cold patching of asphalted roadways. Magnesium chloride and calcium chloride were being placed on gravel roads for dust control.

In July the IS Department continued to complete maintenance tasks. Some items that have been completed are: Line painting, calcium and magnesium chloride for dust control on gravel roads, replacement of signs, asphalt patching of pot holes, cutting of grass, rejuvenating the entrance to Town Hall, cleaning streets and boulevards of debris, removal of trees that had fallen over due to wind, repairs to municipal buildings both exterior and interior where required.

During August and September the IS Department continued regular maintenance related to the towns beautification while maintaining roads, culverts, ditches, sidewalks, buildings, cutting grass and starting to prepare some equipment for the winter season to come.

**Respectfully Submitted By:**

**Prepared By:**

**Cory Stainthorpe  
Director of Infrastructure Services**

**Water & Sewer****THM**

The water & sewer staff continues to monitor the THM levels and are following the recommendations from the report by Kresin Engineering to decrease chlorine levels at a slow pace. The most recent THMs results at the Michipicoten River Village Water Tower were 125ug/l in July which has been reoccurring during this time of the year as history shows.

The dechlorination reservoir that is now completed will assist with lowering the THM results from the water tower by flushing the system. A tracking spread sheet continues to be completed on a regular basis with the same locations for regular scheduled sampling (WTP, Hospital, 3 Maple, IS building, MMCC, Davidson Fuels, Mission Water Tower and Marina).

Kresin Engineering received results from lab tests that were conducted on water samples from Wawa's Water Treatment Plant to recreate the treatment process and THMs to see which method will be most effective and cost efficient moving forward. Kresin Engineering is currently working on a report related to these findings which will be discussed further once complete.

**Water Meters**

An updated list was sent to Water & Sewer Staff to complete from Heather Rainville, Revenue Associate. It has been reviewed and actions have been taken to correct the issues of meters running backwards and reviewing other concerns in the list such as no readings.

**SAI Global Audit**

As per our requirements to have an external audit on the Drinking Water Quality Management Standard (DWQMS) SAI Global was contacted again to complete this audit in September. All documentation requested by the auditor has been sent and currently awaiting for the external review and response.

**Water Staff Schedule**

The Water & Sewer Staff will be scheduled rotating weekends starting November 2017. The schedule will not increase the overall hours of work and will decrease the amount of call outs that occur on weekends.

### **Hazardous Waste Day**

GFL was scheduled for hazardous waste day and on September 16, 2017 arrived to site for set up. There were 2 trucks filled with hazardous waste. I was informed this was the best turnout for hazardous waste day since the Municipality started hosting this event. Advertising for the event went out in August to multiple media sources and EDC posted advertisement on the event also.

### **Municipal Road & Street Signs**

Throughout 2017 numerous signs in random locations have been damaged by vandalism. The OPP was contacted and a press release was issued notifying the community to contact OPP if they witness these events occurring.

The Municipality has been monitoring and plotting on a map the locations of the vandalism throughout the Municipality; to date we have replaced approximately 35 signs in 2017. This has added up to \$2,000 cost for replacing signs for just the materials and supplies required.

Infrastructure Services will continue to monitor locations of vandalism and keep in discussions with the OPP on this subject to find a solution.

### **Sewage Lagoons Sludge Survey**

A sludge survey is required to be completed every 5 years at the Sewage Lagoons. This was to be scheduled for 2018 due to the completion of the desludging process as part of the capital project to rejuvenate the Sewage Lagoons and after further discussions with Kresin Engineering; it was decided to conduct the sludge survey this year.

The cost to complete the survey is estimated at \$11,000.00 and was not budgeted in 2017 for capital or operating expense. There is room for this to be completed in the Water & Sewer consultant budget and will be charged to that account. The purpose of the sludge survey is to monitor the amount of waste in the sewage lagoons, how it builds up over the years and location of build up to help determine appropriate action and timelines to complete another sludge removal process.

### **Magnesium Chloride Dust Control**

In 2017 the Infrastructure Department used a combination of Magnesium Chloride Crystals and Calcium Chloride Liquid for dust control. The Magnesium Chloride Crystals allowed for IS Staff to assist with dust control throughout the summer without having to contract trucks to travel and use calcium when product dissolved.

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Magnesium Chloride is more environmentally friendly than Calcium Chloride and does not accumulate on vehicles which access roads where placed like Calcium Chloride does.

### **William Teddy Park**

William Teddy Park was closed in August 2017 due to evidence of someone dumping something into Wawa Lake which is also our drinking water source.

The Park was closed to prevent any further damages occurring and allow for the Municipality to develop a strategy moving forward to prevent instances such as this from occurring.

The IS Staff has been working with Algoma Public Health and the Ministry of Environment and Climate Change to come up with ideas of prevention and awareness that this is a drinking water source.

An article was written on this subject to be included in the latest newsletter to help bring awareness to the community. Signs have been purchased and were placed around the beachfront and William Teddy Park reminding that this is a drinking water protection zone.

### **Steep Hill Dam Boat Launch**

The Infrastructure Department has repaired the Steephill Dam boat launch. The boat launch was in poor condition and was a health and safety risk.

Concrete pads were removed and granular 'A' has been placed as a temporary solution until further discussions on reconstructing the boat launch are held.

### **Clean Water and Waste Water Fund (CWWF)**

The CWWF projects in 2017 are THMs Study, MRV Water Tower Stabilization of the Overflow/Drain Outlet and MRV Water Tower Reservoir Rehabilitation.

A letter of request has been sent to CWWF regarding the THM study to request an extension on the projects original deadline from March 30, 2018 to December 30, 2018. The extension will allow for a more accurate analysis of the data and review studies on different methods to reduce THMs in our drinking water.

An additional letter was sent to CWWF requesting funds to be transferred from the MRV Stabilization of the Overflow/Drainage Outlet project to the Water Tower Reservoir Rehabilitation project. The transfer of funds will not change the total amount of funding

approved from CWWF. By transferring funds, the MRV Water Tower Reservoir Rehabilitation project can include the exterior lining replacement in the rejuvenation project while replacing the interior lining to save on future transportation and inflation costs. In the July 2016 inspection report from Landmark it was recommended to replace the exterior lining within 3 years, due to funding from CWWF \$55,000.00 can be transferred from the Water Tower Stabilization project to the Water Tower Reservoir Rehabilitation project and the exterior lining can be completed in 2018.

Since Landmark started work on the Water Tower mid-October, they are unable to complete the exterior lining in 2017. After discussions with Landmark, they have written a letter stating they will honour the original quote until August 31, 2018 and will not charge for additional mobilization/demobilization or room/board costs to complete the exterior work in spring/summer of 2018.

### **Airport**

The Airport continues to be busy during the summer months. Multiple contractors have rented space at the Municipal airport for storage and regular flights. Airport grounds continue to be maintained regularly on schedule and maintenance to the building scheduled as required.

Due to increase in flights, the schedule at the Airport is being reviewed to determine if more assistance is required during the winter months from September to April for administration and maintenance since students are only at the Airport from May to August.

### **Buildings**

Maintenance on the interior and exterior of Municipal buildings as required throughout the summer continued. Most notable project would be the rejuvenation of the Town Hall front entrance. Removal of bushes, weeds, grass and replaced with SOD, mulch and flowers. Some touch-up painting was also required on the exterior of the building.

### **Cemetery**

IS Department opened the Cemetery in early May. IS Department has been working with the IT/GIS Department gathering information and marking lots with GPS. Weed-Man was contracted to spray the grounds for weed control and returned for a second treatment to fertilize.

The IS Department continues maintenance at the Cemetery using equipment from the Capital project such as the water reel and monument levelling device.

## **Bridges & Culverts**

The IS Department has been contracted to replace an existing culvert on the Helen Mine road. A culvert located on Steephill Dam was in poor condition and was replaced.

Brushing around the bridge and signs on Harbour Road has been completed to ensure the safety of vehicles accessing the one lane bridge had clear vision of any traffic or pedestrians accessing the bridge.

## **Capital Projects**

### **Fuel System – 26 Magpie**

Postponed to 2018 due to condition of the current system, it was determined to replace the system instead of repairing the system.

### **Cemetery Betterments**

A Kifco water-reel T200S 9 HP booster pump was purchased for the cemetery maintenance. The water-reel will assist with watering the cemetery grounds. Kifco water-reel is easy to move from location to location and set-up/store when not in use, the system is commonly used in baseball/football fields and farm fields.

### **Cemetery Fence**

Cemetery fence project at St. Margaret Mary Cemetery started on October 10<sup>th</sup>, 2017 and was completed on October 13<sup>th</sup>, 2017.

### **Pinewood Drive and Government Road**

Kresin Engineering surveyed Pinewood Drive and lower Government Road in the end of May to create a design for proper water runoff. The project is scheduled to commence October 16<sup>th</sup>, 2017 and will take approximately 2 weeks to complete, a notice was released to the businesses and public in late September, 2 weeks prior to project start.

### **Reservoir Dechlorination**

Kresin Engineering completed a Tender package that went for advertisement mid-May and closed on June 9, 2017 at 3:00 p.m. All Tenderer information was received and reviewed; Kresin Engineering completed a recommendation report that was presented to Council. A notice was released to the public in June after the Tender was awarded to J. Provost Contracting. This project has been completed.

### Water Tower Restoration

A Request for Proposal has been completed and was advertised in early June, the project is scheduled to be completed after the Reservoir Dechlorination Tank to ensure projects do not conflict with one another. A notice has been released to the public in August; Landmark has been awarded the project and started on October 10<sup>th</sup>, 2017, estimated completion is 4 week, unfortunately due to a delay in start date and weather temperature, the exterior coating will have to be completed in spring/summer of 2018. Landmark will honour the original quote provided to complete the exterior lining with no additional costs for mobilization/demobilization.

### New Street Lights

A Dark Study is being completed by Kresin Engineering to review the Municipality of Wawa, Pinewood Drive/Industrial Park and Michipicoten River Village. The study will assist with determining the locations that require more light for the safety of pedestrians and motor vehicles.

### Landfill

Kresin Engineering has been in discussions with the contractor for installing a source monitoring well at the landfill and are arranging timeline with another project that the contractor has in the area. Work is estimated to start during the month of October 2017.

An open house occurred in July 2017, Chris Kresin and I were present to answer any questions related to the landfill expansion and process.

A surface water impact assessment including determination of potential mixing zones is to be completed prior to December 2017 and a hydrogeological assessment of the existing and proposed expanded site is currently underway.

A Source Well is scheduled to be installed at the landfill the week of October 16<sup>th</sup>, 2017.

### **Alternatives CWWF Transfer of Funds**

1. Transfer \$55,000 from MRV Stabilization of the Overflow/Drainage Outlet project budget to the Water Tower Reservoir Rehabilitation project budget to include exterior lining replacement and transfer remaining Capital Budget from 2017 to 2018 Capital Budget for exterior lining replacement – **Recommended.**
2. Do not Transfer \$55,000 from MRV Stabilization of the Overflow/Drainage Outlet project budget to the Water Tower Reservoir Rehabilitation project budget and do not complete exterior lining replacement – **Not Recommended.**

**Recommendation**

It is recommended that Council approves transferring funds from MRV Stabilization of the Overflow/Drainage Outlet project to the Water Tower Reservoir Rehabilitation project to complete the exterior lining replacement and transfer the remaining Capital Budget in 2017 from Water Tower Reservoir Rehabilitation into 2018 Capital Budget so that Landmark can complete exterior lining in spring/summer 2018.

**Attachments**

Attachment 1: Letters to CWWF

Attachment 2: Letter from Landmark





Clean Water and Wastewater Fund (CWWF)  
Infrastructure Ontario  
1 Dundas Street West, Suite 2000  
Toronto ON M5G 2L5                      Via Email - [CWWF@infrastructureontario.ca](mailto:CWWF@infrastructureontario.ca)

**Attention: Ms. Ilakkiya Maheswaran**

**August 17, 2017**

**Dear Ms. Maheswaran:**

**Re: Project WAW-01 - Water Reservoir Rehabilitation and  
Technical/Operational Rebuild & WAW-02 - Water Reservoir Dechlorinator**

I am writing this letter of request to CWWF regarding transfer of \$35,000.00 from project ID WAW-02 to WAW-01 and change of scope in Project WAW-02. The changes requested are highlighted in the attached document (*CWWF - Wawa Project WaW-M 57076 List August 1 2017 Final C Proposed budget changes*).

The reason for this transferring funds request from project ID WAW-02 to WAW-01 is to allow for the exterior lining to be replaced while the contractor is replacing the interior lining and other maintenance upgrades to the Michipicoten River Village Water Tower.

Due to Trihalomethane levels exceeding the MOECC allowances at the water tower, additional work is to be included in project ID WAW-02 Water Reservoir Dechlorinator. The work will include a hydrant being installed on the water main before the water tower to allow for flushing of the water main in spring/fall, scrubbing the water mains in Michipicoten River Village, installation of an analyzer and chlorine pump at the water tower for monitoring dosage. Since project WAW-02 is under the estimated budget, the additional items can be added to the scope of work for project WAW-02.

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P.O. BOX 500, 40 BROADWAY AVENUE, WAWA, ONTARIO, P0S 1K0  
Telephone: (705) 856-2244, Fax: (705) 856-2120, Website: [www.wawa.cc](http://www.wawa.cc)



The exterior of the water tower was recommended to be replaced in 2019 during a 2016 annual inspection completed by Landmark. Landmark has been awarded this project through an RFP process to complete the upgrades to the water tower. It is recommended to extend the scope of work to include the exterior lining and save on future costs from travel and transportation.

Due to project WAW-02 being under the estimated budget, transferring funds from WAW-02 to WAW-01 for replacement of the exterior lining would not change the maximum funds allowable from CWWF and it would remain at \$403,977.00.

I appreciate your time taken to review this request, if you have any further questions or concerns regarding this request please contact Cory Stainthorpe, Director of Infrastructure Services at (705) 856-2244 ext. 251.

**Best Regards,**



**Chris Wray, AMCT  
CAO / Clerk-Treasurer**

Cc: C. Stainthorpe – Director of Infrastructure Services  
M. Batovanja – Deputy Treasurer



October 11<sup>th</sup>, 2017

**Municipality of Wawa**

40 Broadway Avenue

P.O. Box 500

Wawa, ON

POS 1K0

Att: **Mr. Cory Stainthorpe**  
**Director of Infrastructure Services**  
[cstainthorpe@wawa.cc](mailto:cstainthorpe@wawa.cc)

Office: 705-856-2244 ext.251

Cell: 705-852-0615

Re: **Quote #17158**

**Wawa Composite Elevated Tank Exterior Overcoat.**

Mr. Stainthorpe,

With this letter, we hereby accept your request to honour the quoted price for exterior overcoat per quote #Q17158 for the Wawa Composite Elevated Tank (CET) to be valid from the date of original submission (July 25<sup>th</sup>, 2017) to August 31, 2018.

We would like to take this opportunity to thank you for your partnership and we apologize for the misunderstanding and inconvenience that this may have caused.

Should you have any questions, concerns, or comments regarding this letter, please contact me at 905-407-8883. We look forward to the opportunity of extending our partnership with the Municipality of Wawa.

Sincerely,  
**Landmark Municipal Services**



**Brent Marini**

Encl.





July 25<sup>th</sup>, 2017

**Municipality of Wawa**

40 Broadway Avenue  
P.O. Box 500  
Wawa, ON  
P0S 1K0

Att: **Mr. Cory Stainthorpe**  
**Director of Infrastructure Services**  
[cstainthorpe@wawa.cc](mailto:cstainthorpe@wawa.cc)

Office: 705-856-2244 ext.251

Cell: 705-852-0615

Re: **Quote #17158**

**Wawa Composite Elevated Tank Exterior Overcoat**

Mr. Stainthorpe,

Thank you for the opportunity to provide our budget proposal for the following services at the above mentioned potable water storage facility.

**1) Exterior: Overcoat – Subject to application of test patches.**

- Pressure wash exterior surfaces in accordance with SSPC-LPWC-WJ4.
- Spot prepare corroded areas in accordance with SSPC-SP11, spot paint with Epoxy.
- Apply 1 full primer coat of Tnemec Series N69 High Build Epoxy at 4 – 6 mils DFT.
- Apply 1 full topcoat of Tnemec 1075U Endurashield II Aliphatic Urethane at 3 – 5 mils DFT.

**Budget Price: \$ 64,500.00**

**Notes:**

- Tank must be drained throughout duration of overcoat
- Price assumes work to be completed concurrently with interior re-coat
- Price assumes usage of Town water at a hose connection in the valve chamber

Should you have any questions or comments regarding the content of this quotation, please contact us at 905-319-7700. We look forward to the opportunity of further interaction with the Municipality of Wawa and we thank you for your interest.

Yours,

**Landmark Municipal Services**



**Dave Baker**

