



AGENDA

LAWSS Board Meeting

Thursday, January 28th, 2016

10 a.m.

Lambton Area Water Supply System – 1215 Fort Street, Sarnia, Ontario N7V 1M1

1. Declaration Of Pecuniary Or Conflict Of Interest

2. Election of Chair and Vice-Chair on December 17th, 2015

“Motion to appoint Councillor Bruziewicz as Chair.”

Moved by: Mayor Arnold

Seconded by: Mayor Case

Carried

“Motion to appoint Mayor Weber as Vice-Chair.”

Moved by: Mayor MacKenzie

Seconded by: Mayor Napper

Carried

A discussion was also carried out regarding reimbursing the Chair for their work on the LAWSS Board.

“Motion to pay the LAWSS Chair a stipend of \$250 per meeting in recognition of the work required as the Chair.”

Moved by: Mayor Arnold

Seconded by: Mayor Case

Defeated

3. Approval of Regular Agenda Minutes

Portable document format (pdf) copy of the minutes for the November 26th, 2015 meeting is attached to this agenda.

“That the minutes of the November 26th, 2015 LAWSS board meeting be adopted.”

Moved by:
Seconded by:
Carried/Defeated

4. LAWSS Monthly Financial Statements

Pdfs of the draft November 2015 LAWSS budget statement and cash balance sheet is attached for review and approval.

“That the Board accepts the draft financial statements and cash balance sheets for November 2015.”

Moved by:
Seconded by:
Carried/Defeated

5. OCWA Operational Statements

The operational statement and other materials from OCWA for November 2015 are attached as pdfs.

“That the Board accepts the November 2015 operational statement and other materials from OCWA.”

Moved by:
Seconded by:
Carried/Defeated

6. 2015 Capital Projects

Capital projects represent the 2015 Budget projects for both Capital and Major Maintenance Work. *Summary of the capital and major maintenance projects for 2015 only including purchase orders (POs) issued and money spent for November 2015 are attached as a pdf.*

Items for Consideration:

- a) 2016 Radio Replacement for LAWSS (SCADA Upgrades - \$200,000): LAWSS hired MegaComm to complete a radio communication study in 2015 to confirm the feasibility of replacing the existing legacy (Serial) radio equipment with new Ethernet based radio equipment. *Based on the study MegaComm has put together a budgetary cost estimate for the replacement of the radio system which is attached as a pdf.* It is also of note that MegaComm has determined that LAWSS will require an antenna on St. Clair Townships Brigden Water Tower. The LAWSS General Manager has forwarded a memo to St. Clair Township Council requesting permission for LAWSS to install an antenna on their tower.

“Motion to hire MegaComm to proceed in the replacement of the LAWSS radio and approve the budgetary cost estimate for \$123,850.”

Moved by:

Seconded by:

Carried/Defeated

- b) 2015 Installation of new Admin HVAC for Water Treatment Plant (\$295,000): The admin HVAC was in operation on November 26th and in late December the system kept shutting down. On December 23rd several issues were noted (heat drop across heat exchanger did not meet design guidelines) and the system had to be locked out and could not be used. Following a group meeting in early January it was determined that a plugged service line was part of the problem and the service line had to be rerouted from another areas of the plant as part of an Emergency Major Maintenance Project. It has since been determined that a boiler will be required to heat the service water entering the heat pump. The temperature data provided to the consulting engineers was incorrect and misrepresented the source and temperature of the service water used by the chiller in the old admin HVAC system. Therefore, given the nature of the project LAWSS General Manager is requesting that the installation of the boiler take place as an Emergency Repair project. It is estimated that the project will cost an additional \$50,000. It is proposed that the current engineer design the preheater system and the current contractor and subs (Poleair, Anderson-Webb, HTS) be given the opportunity to provide a cost for the work. Assuming the cost is acceptable by the LAWSS Board then the work can proceed.

“Motion to proceed with the engineering and installation of boiler on the admin HVAC system as an emergency repair project for a cost estimate of \$50,000.”

Moved by:

Seconded by:

Carried/Defeated

Items for Information Only:

- c) 2015 SCADA PLC Replacement - \$208,000: PLC 70-90 upgrade for RMS and PLC4 is scheduled to take place at the end of January. All parts have been received but a GE technical representative needs to be on site for the firmware update which needs to be completed before replacement work can proceed. Any issues with the firmware update could impact entire WTP operation.
- d) Emergency Repair Chamber By-Pass along Zion Line at Bear Creek in Township of Warwick: The geotechnical consultant has recommended that LAWSS install the water main via an open cut through Bear Creek (as opposed to directional drilling). This plan for work and supporting documentation has been forwarded to the St. Clair Region Conservation Authority for approval. Once they approve the open cut approach then the Reference Plan can be completed and the easement can be forwarded to property owner for final approval.
- e) 2015 Mag Meters for Point Edward (\$402,000): Project is 95% complete. Some outstanding asphalt, curb shaving/painting, and sod work will be done in the spring.
- f) 2015 Polymer System Replacement (\$511,000): Project is proceeding.
- g) 2015 Main Plant HVAC Replacement (\$628,000): Efficiency Engineering working on tender document.
- h) Emergency Repair Chamber Leak on London Line in Township of Warwick: Work complete.
- i) Emergency Repair on La Salle Line: Work Complete.

“Motion to move items (c) to (i) as information.”

Moved by:

Seconded by:

Carried/Defeated

7. Ongoing Issues

- a) Water Flows: *The water flows for November 2015 is attached as a pdf.* It is of note that the Mag Meter flows in Point Edward came fully on line on October 21, 2015.
- b) LAWSS 10-Year Draft Plan: As directed by the LAWSS Board the 10-Year plan was revised to include the Twinning Project instead of the La Salle Line replacement. A slight modification to the schedule was required to ensure that the Twinning Project is completed before the 10-year time limit on the completed environmental assessment. *The revised LAWSS 10-Year Plan is attached as a pdf.*

- c) Courtright Valve Replacement: St. Clair Township Council has requested that the flow meter located in this chamber adjacent to this broken valve be removed and replaced with a 12" valve and section of ductile water main.
- d) Hydrant Flow Testing by Flowmetrix to Confirm Impact of 24" Watermain Abandonment: *A memo which summarizes the Flowmetrix test results is attached as a pdf.* The results clearly show minor impacts to Point Edward and Sarnia as a result of the 24" being abandoned.

"Motion to proceed with the abandonment of the 24" water main by installing a valve on the 24" water main at the Monk Street Chamber."

Moved by:
Seconded by:
Carried/Defeated

- e) Agreement with the City of Sarnia for ArcGIS and waterCAD Support: No update.
- f) Source Water Protection Update: The LAWSS General Manager has also agreed to act as Risk Management Official/Risk Management Inspector for Lambton Shores in addition to Point Edward, Plympton-Wyoming and St. Clair Township. It is also noted that technical reports have been received on >34,000 L Fertilizer and Fuel Storage Tanks. The document received summarizing TSSA Standards and Requirements has been reviewed and will be used to assist in preparing Risk Management Plans for fuel storage tanks. So far, Lambton Shores appears to be the only community that may require a risk management plan for a Fuel Tank governed by TSSA standards. For the larger fuel storage tanks such as those in Chemical Valley, three American Petrolia Institute (API) Standards have been ordered (API 650-Welded Steel Tanks for Oil Storage, API 653-Tank Inspection, Repair, Alteration, and Reconstruction, and API 579-Fitness for Service). These API standards will be used to develop Risk Management Plans for these larger type fuel tanks located in St. Clair Township. It is of note that the City of Sarnia also has these types of fuel tanks and technical support was offered by the LAWSS General Manager to Sarnia planning staff. Planning staff declined assistance from LAWSS due to conflict of interest concerns.

8. New Business

- a) 2015 Year End: It is planned to return all unspent money from the 2015 budget to reserve.

"Motion to transfer all unspent 2015 budget amounts to reserve."

Moved by:
Seconded by:
Carried/Defeated

- b) Emergency Repair Chamber By-Pass Planned for London Line: LAWSS repaired the water main entering a chamber near 5910 London Line on December 24th. As the repair was completed another small leak was found right at the chamber well. Given the issues in repairing leaks at the chamber wall, a decision was made to bypass the chamber. LAWSS will proceed with this project as an emergency repair following the completion of the Zion Line Chamber by-pass.
- c) Potential Lambton College Project: LAWSS General Manager has been in discussions with Lambton College about a research project looking at filter aid dosage rates for the dual media filters. Lambton College is preparing a proposal for LAWSS Board to review and consider. This project would involve building a bench scale dual media filter (about 0.5 m long and 0.4 m wide) and dosage rates for the polymer would be varied. The main goal of the project would be to determine optimum dosage rates to the filter for the polymer we are currently using and using turbidities similar to what was experienced during Hurricane Sandy (e.g., 500 NTU). The cost of the research, if approved by the LAWSS Board, would come out of the Engineering Studies budget for 2016.
- d) Schedule G: *Schedule G for OCWA for 2015 is attached as a pdf.* This document summarizes the amount of money either owed to OCWA or owed from OCWA. The amount of money calculated depends on commodity prices, efficiency of chemical usage, hydro costs and actual amount of water produced. For 2015, LAWSS owes OCWA an additional \$16,488.44.
- e) Water main Break on the 24": On January 21, 2016 LAWSS had a water main break on the 24" on Bluewater Bridge property. A Point Edward staff member reported a popping sound and LAWSS was notified immediately. The area was isolated and it was speculated that the break occurred in the area of a saddle and 2" plug and the popping sound could be related to a bolt or bolts giving way from the saddle. Bluewater Bridge staff were wondering if the break created any voids under their truck parking area adjacent to the Duty Free. LAWSS has ask T.W. Gray to visit the site on Monday, January 25th to provide an expert opinion whether it is likely that a void could be created under the pavement based on the situation. LAWSS and OCWA do not think it is likely that any voids were created given the small amount of soil that was released during period when the water flowing.
- f) Permission to Install Antenna and Store Equipment at LAWSS Water Towers: Spectrum Communications is requesting to install antennas and store equipment at the Forest, Watford, Port Lambton stand pipes and Indian Road water tower. *A letter from Spectrum regarding this project and their request is attached as a pdf. Details on the exact requirements will be handed out at the meeting.* One potential concern is the space and HVAC requirements for equipment storage in the on-site buildings.

9. IN-CAMERA Meeting

The Board will adjourn to an in-camera meeting if necessary.

10. Chair to Rise and Report on the Matters of Public Concern from the In-Camera Session

The Chair will report as required.

11. Adjournment/Next Meeting

“That the LAWSS Board adjourn this meeting to its next meeting on Thursday, February 25th 2016 at 10 am at the LAWSS Water Treatment Plant.”

Moved by:
Carried/Defeated

pdf Attachments:

1. Minutes of LAWSS Board Meeting November 26th, 2015
2. LAWSS Financial Statement – November 2015
3. LAWSS Cash Balance Sheet – November 2015
4. OCWA Monthly Operations Report – November 2015
5. OCWA Data Report for LAWSS – November 2015
6. OCWA Work Order Status November 2015
7. OCWA Work Order Status Oct – Nov 2015
8. LAWSS Project List – November 2015
9. Budgetary Cost Estimate for Radio Replacement by MegaComm
10. LAWSS Flows November 2015
11. Revised LAWSS 10-Year Plan
12. Memo - Summary of Flowmetrix Hydrant Flushing Results Following Isolation of 24” Water Main
13. Final Schedule G for 2015
14. Letter from Spectrum Communications Regarding Radio Antenna Installation

Handouts:

1. Information from Spectrum Communications Regarding Request to Install Antenna and Store Equipment at LAWSS Water Towers