



## **JOINT BOARD OF MANAGEMENT**

Wednesday, October 16, 2019

**9:00 AM**

Ruthven Water Treatment Plant

1615 Union Avenue

Ruthven, Ontario

## **AGENDA**

**A. Call to Order:**

**B. Disclosures of Pecuniary Interest:**

**C. Approval of Minutes:**

Minutes of the meeting of the Union Water Supply System Joint Board of  
Management Meeting held Wednesday, September 18, 2019  
Pages 2 - 8

**D. Business Arising Out of the Minutes**

**E. Items for Consideration:**

1. UW/29/19 dated October 11<sup>th</sup>, 2019 re: Status Update of UWSS Operations &  
Maintenance Activities and Capital Works to October 11, 2019  
Pages 9 - 12
2. UW/30/19 dated October 11, 2019 re: Payments from September 13, 2019 to  
October 11, 2019  
Pages 13 - 18

**F. New Business:**

**G. Adjournment:**

**H. Date of Next Meeting:** November 20, 2019, 9:00 am, Ruthven Water Treatment  
Plant, 1615 Union Avenue, Ruthven, Ontario

/kmj



## JOINT BOARD OF MANAGEMENT

Wednesday, September 18, 2019

9:00 AM

Ruthven Water Treatment Plant  
1615 Union Avenue,  
Ruthven

### MINUTES

Members Present: Mayor MacDonald (Chair); Deputy Mayor Verbeke, Councillors Dunn, Hammond, Jacobs, Tiessen (alternate), Wilkinson - Leamington  
Mayor Nelson Santos (Vice-Chair); Deputy Mayor Queen, Councillors DeYong, Neufeld, Patterson - Kingsville  
Councillor VanderDoelen - Essex  
Councillor Walstedt - Lakeshore

Union Water: Rodney Bouchard, Manager  
Staff Present: Khristine Johnson, Recording Secretary

Staff Present: Shaun Martinho - Kingsville  
Shannon Belleau - Leamington

OCWA Staff Present: Susan Budden  
Dale Dillen, Ken Penney

**Call to Order: 9:01 am**

**Disclosures of Pecuniary Interest: none**

**Adoption of Board Minutes:**

**No. UW-39-19**

Moved by: Councillor Dunn

Seconded by: Deputy Mayor Queen

That Minutes of the UWSS Joint Board of Management meeting of July 31, 2019 be received.

Carried

**Business Arising Out of the Minutes:**

There was none.

**Report UW/24/19 dated September 13, 2019 re: Status Update of the UWSS Operations & Maintenance Activities and Capital Works to September 13, 2019**

The Manager reviews his report with board members. He provides updates on the various project throughout the system. Specifically, he speaks to the SCADA system upgrades noting that this is a very complex and difficult project to tackle. He continues to explain that UWSS and the engineering team are working on the Process Control Narrative (PCN) for the WTP and a lot of progress has been made. There are still workshops and Factory Acceptance Testing (FAT) to go through. Once completed to the satisfaction of all team members then the programmers can begin working on the actual SCADA build. He does note that the project is only slightly behind. He also indicates that the required equipment for the buildout is on order.

The CO2 pH Adjustment project is moving along, and he notes members might have noticed a lot of construction activity around the WTP when they arrived for the meeting. He explains that some piping within the building needs to be worked on, however, the chambers are in the ground. The Board asks if the project delays will cost the UWSS anything. The Manager explains that any delays are on the contractors shoulders.

The residual management pile near the back end of the UWSS property has had 1500 tonnes of waste removed to the landfill. The Manager feels more can be removed weather and budget providing. Over the past several years good progress has been made in getting rid of the pile.

The reservoir grading project at the Cottam Booster Station (CBS) is now complete. The Manager confirms that hydroseeding of the ground is taking place today and the new drainage seems to be working.

The Manager informs Board members of a Drinking Water Quality Management System (DWQMS) audit that took place on August 26<sup>th</sup>. He notes that there was a minor non-conformance identified. It was related to providing a written procedure in the Operational Plan in regards to critical control points. The Manager explains that there is a procedure in place, but that procedure was not identified within the plan. That change has been made.

The UWSS Reservoir #2 had an inspection conducted and the report indicates that the roof is intact, with no cracking. The Manager explains that during the construction phase of the CO2 pH Adjustment system a subcontractor drove his semi truck on to the roof of the reservoir. A collapse would have been disastrous for the UWSS facility, but thankfully there is no damage. The contractor will be covering the cost of the inspection.

The Manager does inform members of one item not mentioned in the report, as it occurred the day before. Namely, a Boil Water Advisory (BWA) had been issued for a small area in Essex, after a sample came back adverse. The Manager explains that the BWA is a precautionary measure. The Manager further explains that the adverse sample had a high Total Coliform count but also had a high chlorine residual, which shouldn't be the case. Thus, the Manager stipulated that there could have possibly been just a mishandling of the sample or the sample jar was contaminated or a lab error, which created a false positive. He reassures members that the OCWA team had already been out to resample the area in question. The Board asks multiple questions regarding the

procedure with sampling and how many households had been affected. The OCWA Compliance Technician for UWSS indicates that approximately 100-125 had been affected. The Manager further explains that UWSS, through OCWA provides regulatory sampling services on behalf of the municipalities and also that since there really have been very few BWA's in recent years. The Manager explains that the handling of the adverse result and issuance of Boil Water Advisory, including communication with Windsor Essex County Health Unit (WECHU) and all entities involved, did not go as well as it should have. The Manager feels that it is prudent to have a meeting with the Windsor Essex County Health Unit (WECHU) to develop a better procedure for these instances. It seems there has been a rather large staff turnover there and he feels it is best to have a meeting to ensure that UWSS and WECHU are using similar procedures and practices if ever there is another BWA.

Finally, the Manager notes that the UWSS flows are still above last year's trend and this is helpful on the budget side of things. He makes note that the flows have been the highest since 2008 and he fully expects them to slowly keep going up. This is something he will continue to monitor.

#### **No. UW-40-19**

Moved by: Councillor Dunn

Seconded by: Deputy Mayor Queen

That report UW/24/19 dated September 13, 2019 re: Status Update of the UWSS Operations & Maintenance Activities and Capital Works to September 13, 2019 is received.

Carried (UW/24/19)

#### **Report UW/25/19 dated September 13, 2019 re: UWSS 2019 Budget Status Report - Revenue and Expenditures to August 31<sup>st</sup>, 2019**

The Manager reminds members of the Board that he tries to provide an update on the budget mid-way through the year, in preparation for the 2020 budget. He notes that water demand is up approximately 5% over last year, which translates into approximately \$488,000 over the budget for 2019. He expects this trend to continue for the remaining of the 2019 year. He confirms that operational expenditures are in line with the budget. He notes that one line item is over budget and that is professional services as he had neglected to put a line item in for the Conservation Demand Management Plan, due this year.

The Board asks for clarification on the extra revenue versus the cost of making the added water. The Manager clarifies that producing the extra water is not detrimental to the budget.

The Manager states that the capital budget is moving along rather well, which plenty of invoices coming in later this year. He runs through a number of projects in progress such as: the water modeling project, Ruthven WTP Reservoir study, secondary disinfection review, the surge tanks, the CO2 pH adjustment system, SCADA project, as well as

numerous other projects that will be ongoing. He also notes the smaller projects that have been completed this year and mentions that since there is some money in the budget he is considering improving the parking situation at the Ruthven WTP. He confirms that the plant is busier in general and parking can be difficult at times.

The Manager speaks to the upgrades regarding the administrative area of the WTP. He explains that a 3D rendering is currently being done and he expects a detailed design completed by the end of 2019.

#### **No. UW-41-19**

Moved by: Councillor Wilkinson

Seconded by: Councillor Dunn

That the Union Water Supply Joint Board of Management receives this report UW25/19 re: UWSS 2019 Budget Status Report - Revenue and Expenditures to August 31<sup>st</sup>, 2019 for information;

And further, that the UWSS Board approves the amendment to the 2019 UWSS Budget to revise the budget for Miscellaneous Professional Services from \$45,000 to \$90,000

Carried (UW/25/19)

#### **Report UW/26/19 dated September 12, 2019 re: New Operations and Maintenance Agreement between the Union Water Supply System and Ontario Clean Water Agency - follow up to Report UW/16/196 dated May 20, 2019**

The Manager provides a brief historical account of where the negotiations stand between OCWA and UWSS regarding the Operation Agreement. He notes that the last agreement expired at the end of 2018, with an extension in place until the end of 2019. He confirms that a new contract has been signed by OCWA Management.

The new contract identifies things that are beneficial to both sides. The agreement includes \$150,000 in a capital budget for OCWA, with anything above \$5,000 requiring approval from the UWSS Manager. The chemical allowances are fully reconcilable and there are some additional staffing modifications. The board asks for clarifications regarding the title of "agricultural worker" to new staff members at the WTP. The Operations Manager explains that because of OPSEU Union rules the position had to have that designation. However, this position description is being eliminated and converted to Maintenance Mechanic 2 (MM2).

Mr. Dunn leaves meeting at 9:45 am.

The Business Manager for OCWA, Susan Budden, takes over from the Manager. She thanks the members of the Board for the patience and understanding during the negotiation process. She confirms that this agreement reviewed all aspects of what UWSS and OCWA required going forward and feels that this agreement is beneficial to both parties. She made note that there are changing needs on the regulatory side of operations and reiterated what the Manager had stated about updated staffing positions. She also confirmed that all OCWA workers are considered essential service workers and

therefore there is no chance of any disruption in the event of OPSEU strikes that are potential around the province.

Finally, she made note of the loan that has been made available from OCWA to the UWSS for capital upgrades. The Board asks whether a loan could be used to pay off the Sun Life obligation. The Manager confirms that Sun Life is not interested in settling this debt early.

The Board then seeks further clarification regarding the staffing additions. There is some concern that some of the positions will be a blending of two (2) jobs and therefore, eliminate actual persons working. The Manager assures members that these are staff additions and further explains the reasoning behind the additions.

#### **No. UW-42-19**

**Moved by:** Councillor Walstedt

**Seconded by:** Councillor DeYong

That the Union Water Supply Joint Board of Management (Board) receives this report for information;

And further, that the Board authorizes the Chair and either the Vice-Chair or UWSS General Manager to execute the Services Agreement between the Union Water Supply System (UWSS) and Ontario Clean Water Agency (OCWA) that consists of a Fixed Management Fee agreement for a period of five (5) years, subject to the Board's right to extend for a further five (5) year period, in the amount of \$3,260,545 (including an Operations estimate of \$2,863,500 and Fixed Fee of \$397,045) for the first year, retroactive to July 1, 2019;

And further, that the UWSS General Manager be delegated authority to authorize adjustments for increases in costs and amendments to account for inflation and additional services on an as required basis in accordance with the agreement;

And further, that UWSS staff report back to the Board on the performance of the agreement on an annual basis.

**Report UW/26/19 dated September 13, 2019 re: Payments from July 27 to September 13, 2019**

#### **No. UW-43-19**

**Moved by:** Deputy Mayor Santos

**Seconded by:** Councillor Hammond

That report UW/26/19 dated September 13, 2019 re: Payments from July 27 to September 13, 2019 is received.

Carried (UW/23/19)

## New Business

### Report UW/28/19 dated September 16, 2019 re: Nomination of UWSS Representative to sit on the Essex Region Source Water Protection Committee

The Manager explains that the current term for the current UWSS representative has expired. The Board must nominate a member to sit on the Source Water Protection Committee. The commitment is five (5) years.

The current representative is Mayor Nelson Santos; he then explains a little bit about what it is that his position entails. He spoke about the quarterly meetings and notes that the bulk of the work on this committee had been completed.

Deputy Mayor Queen addressed the board making note that back in 2007 both he and Deputy Mayor Verbeke were original members of said committee. He then nominated Mayor Santos to continue his tenure. Councillor Patterson seconded the nomination. Mayor Santos accepted the nomination.

#### No. UW-44-19

Moved by: Deputy Mayor Queen

Seconded by: Councillor Patterson

That Mayor Santos is nominated for the position of UWSS representative on the Source Water Protection Committee for the next five (5) years.

Carried (UW/28/19)

The Board then provided directions to the Manager. They asked that he follow up with the WECHU regarding the BWA and the procedures in place.

The Manager then informs the Board that he had attended a meeting with the City of Windsor regarding redundancy in water systems. He explains that the City is concerned about water in an emergency situation. He further explains that the City of Windsor and the UWSS are proposing to do a study on water security in an emergency basis. He confirms that UWSS could not possibly supply water to all of the city but rather assist on a limited emergency basis and vice versa. He will most likely add this item to the 2020 budget.

The Manager informs the Board of another interesting meeting regarding algae studies in Lake Erie. He explains that he met with the Great Lakes Institute to discuss a possible study. He notes that they have received a substantial grant and would like to partner with the UWSS to obtain instrumentation that will provide more detailed data regarding algae near the intakes of the UWSS. This would require that the UWSS provide a little bit of money to cover some of the expenses, and the Manager would include this as part of the 2020 budget as well. The Manager is very excited as a team is in place and ready to go. They would be doing all of the physical work and sharing that the data and results obtained to allow the UWSS to be better prepared in the case of algae events.

**Adjournment:**

**No. UW-45-19**

Moved by: Deputy Mayor Queen

Seconded by: Councillor DeYong

That the meeting adjourn at 10:15

Carried

**Date of Next Meeting:** Wednesday, October 16, 2019, 9 am at the Ruthven WTP.

/kmj



UW/29/19

**To:** Chair and Members of the Union Water Supply  
System Joint Board of Management

**From:** Rodney Bouchard, Union Water Manager

**Date:** October 11, 2019

**Re:** Status Update of UWSS Operations & Maintenance Activities and Capital  
Works to October 11, 2019



---

**Aim:**

To inform the UWSS Board about operational and maintenance activities and capital works projects for the Union Water Supply System since the last Board meeting on.

**Discussion:**

The UWSS Manager conducts regular meeting with OCWA Operations staff in regards to on-going operations and maintenance programs for the UWSS facilities. The following provides an update on UWSS operations, regular maintenance and major maintenance and Capital Works at UWSS facilities:

1. Regular Maintenance on all process equipment and analyzers continue to be completed through OCWA's Workplace Maintenance Management System.
2. The Cottam Booster Reservoir soil cover rehabilitation project has been completed.
3. OCWA maintenance staff have redesigned the valve piping for valve chamber VC#9, which is one of the controlled valves that controls the supply of water and water pressure to the Town of Essex. VC#9 also includes a flow meter that is used to measure water demand to the Town of Essex.
4. OCWA maintenance staff is working with a valve expert, Devine and Associates of Markham, ON to rework and update the valve assembly at Valve Chamber #26 (VC#26). This VC#26 is the second valve assembly that controls the supply of water and water pressure to the Town of Essex. VC#26 also includes a flow meter that is used to measure water demand to the Town of Essex. The updates will result in VC#26 being the main feed for the Essex Water Tower. This work should be completed by the end of October 2019.
5. Clarifier #3 was taken out of service on September 23<sup>rd</sup>, 2019 for repairs. The clarifier was drained and cleaned out. Repairs, including new sump system components were completed and refilling of the clarifier basin was started on October 7<sup>th</sup>, 2019. It is anticipated that this clarifier will be brought back into service sometime during the week of October 14, 2019.

Re: UW/29/19 - Status Update of UWSS Operations & Maintenance Activities and Capital Works to October 11, 2019

---

6. Clarifier #3 carbon pump was showing wear and has been replaced with a new type of pump. This new carbon pump should minimize the plugging that occurred with the old style of pump.
7. OCWA maintenance staff have reworked the sump and associated piping system in the boiler room of the Ruthven Water Treatment Plant. The new system should prevent the failures that were occurring with the sump system.
8. Wastewater pump #2 failed on October 8<sup>th</sup>, 2019. Inspection by OCWA maintenance staff indicated that a problem with the blow off in the waste water pit resulted in the pump running dry and causing a failure in the electrical feed to the pump. A new blow-off was installed in the waste water pit and new electrical wiring installed to wastewater pump #2. The pump was put back into service on October 11, 2019.
9. SCADA Upgrade Project Update: On September 26-27, 2019 UWSS, pertinent OCWA operations staff, SUMMA (SCADA integrator) and Associated Engineering (UWSS' consultant) participated in a factory acceptance test (FAT) for valve chambers/Cottam Booster at SUMMA offices in Etobicoke to test the PLCs and ensure that the PCN is correct. The FAT was accepted as satisfactory for build out and programming. FAT testing for the four water towers, and part of the low lift plant have been completed already.

An updated process control narrative (PCN) for the Ruthven Water Treatment Plant processes was provided by SUMMA and reviewed UWSS/OCWA/AE. Software FAT testing for the Low Lift and parts of the Treatment Plant is scheduled for October 23-24, 2019 at Summa Offices. The final FAT testing for all remaining components of the Treatment Plant is scheduled for November 21-22, 2019.

Summa has initiated construction of the PLC cabinets, server racks, etc at their shop. These will be delivered to the Ruthven Water Treatment plant when completed, which is anticipated to be the beginning of November.

Substantial completion is now scheduled for mid-January 2020 instead of mid December 2019.

10. CO2 pH Adjustment/ Chlorine System Improvements Project Update - The 2 Injection Chambers have been installed and partially backfilled. The CO2 feed piping from the CO2 tank to the plant and CO2 injection piping from the plant to the injection chambers are scheduled to be installed by the end of September 2019.

In-plant CO2 piping for CO2 dissolution and control skids is almost complete. The Motor Control Center (MCC)/ electrical panel for the CO2 injection system and wiring for the control skids, dissolution skids, etc. is nearing completion.

Re: UW/29/19 - Status Update of UWSS Operations & Maintenance Activities and Capital Works to October 11, 2019

---

Water inlet piping to feed treated water to the inlet of the CO<sub>2</sub> dissolution skids has been installed. Excavation process for the in-yard piping of the CO<sub>2</sub> system is scheduled to start the week of October 14, 2019.

The dry chlorine scrubber tank and piping installation has been completed. The extension/bump out of the chlorine building is complete. The new chlorine tonner scales have been delivered. The new rack mounts for the chlorine tonners are being designed/constructed off-site and will be delivered and installed at the beginning of November 2019.

The project is on track for substantial completion in on December 5<sup>th</sup>, 2019, which is about 3 weeks later than the initial date.

11. Dimenna Excavating has been retained to remove more solids from the residuals pile in the back of the Ruthven WTP property. Approximately 3500 tons of materials have been removed and sent to the Essex Windsor Solid Waste Authority Landfill for use as daily cover.
12. UWSS retained Associated Engineering (AE) to complete a review of Historical Secondary Disinfection Practices and Performance for the Union Water Supply System. The purpose of the review is to evaluate and provide recommendation on the secondary disinfection practice that is best suited for UWSS. Associated Engineering held a meeting/workshop at the UWSS Ruthven Water Treatment Plant with UWSS and OCWA operations staff on October 8<sup>th</sup>, 2019 to review the draft evaluation report and risk evaluation scoring methodology. A final report will be submitted at the beginning of November 2019 for review with municipal staff (Leamington, Kingsville, Essex, Lakeshore) and presentation to the UWSS Board at the November 20<sup>th</sup>, 2019 UWSS Board meeting.
13. The UWSS General Manager, with support from its retained legal counsel (William Willis of Willis Business Law) and Financial Consultant (Tom Garner on behalf of PriceWaterhouse Coopers), is holding consultation meetings with senior administration of UWSS' owner municipalities to review the UWSS restructuring documents (i.e. incorporation documents, financial plan, etc) that were prepared by Willis Business Law and PWC for the proposed UWSS restructuring into a Municipal Service Corporation. As of the date of this report, consultation meetings have been held with the Municipality of Leamington, Town of Lakeshore and Town of Kingsville. A consultation meeting with Town of Essex administration is forthcoming. Upon completion of the consultation with municipal administration, a presentation of the restructuring documents and result of the consultation process will be provided to the UWSS Board. This is anticipated to occur at the December 18, 2019 UWSS Board meeting.
14. The UWSS General Manager has met with senior operations management at ENWIN/ Windsor Utilities Commission (WUC) to develop a scope of work for a proposed collaborative study between UWSS and WUC on emergency water sharing provisions between the two entities. This study is slated to be initiated at the start of 2020, subject to approval by the UWSS and WUC Boards.

Re: UW/29/19 - Status Update of UWSS Operations & Maintenance Activities and Capital Works to October 11, 2019

---

15. Based on the most recent Lake Erie Harmful Algal Bloom (HAB) bulletin by National Oceanographic and Atmospheric Administration (NOAA), it appears that the conditions are no longer suitable for HAB formation in Lake Erie this year. UWSS will cease monitoring for blue green algae and algal toxins at the end of October 2019. This monitoring will resume in May 2020.

Comparative Flows for 2015 through 2019 in Millions of Imperial Gallons (for the period January 1<sup>st</sup> to October 11<sup>th</sup>, 2019)

	2015	2016	2017	2018	2019
Flow to Date (MG)	2,656.19	2,865.91	2,829.37	3,012.52	3,102.85
Max Day (MGD)	15.36	16.75	16.62	18.14	18.79
Min Day (MGD)	3.79	4.29	4.56	5.18	4.43
Average Day (MGD)	9.39	10.09	10.00	10.64	10.96
No of Days	283	284	283	283	283

Flows to date are up 90.33 MIG or 2.99% from last year. The 2019 flows to date are up 9.22% over the previous 4 year average.

**Recommendation:**

That this report be received by the UWSS Board for information purposes.

Respectfully submitted,



Rodney Bouchard, Manager

Union Water Supply System Joint Board of Management

/kmj

Filename: t:\union wtr\reports to board\2019\uw29-19 uwss operations report for october 2019.docx

UW/30/19

**To:** Chair and Members of the Union Water Supply  
System Joint Board of Management

**From:** Rodney Bouchard, Union Water Manager

**Date:** October 11, 2019

**Re:** Payments for the UWSS September 13<sup>th</sup> to October 11<sup>th</sup>, 2019

---



**Aim:**

To provide the Board with a copy of payments made by the Union Water Supply System from September 13<sup>th</sup> to October 11<sup>th</sup>, 2019.

**Recommendation:**

For information purposes.

Respectfully submitted,

A handwritten signature in blue ink, appearing to read 'R. Bouchard'.

Rodney Bouchard, Manager  
Union Water Supply System Joint Board of Management

/kmj

Filename: t:\union wtr\reports to board\2019\uw30-19 payments from september to october 2019.docx

## Council/Board Report By Dept-(Computer)



AP5130

Page : 31

Date : Sep 20, 2019

Page 14 of 18

Vendor : 0011450 To PT00000171

Batch : All

Department : All

Cheque Print Date : 18-Sep-2019 To 20-Sep-2019

Bank : 07 To 08

Class : All

Vendor Invoice	Vendor Name Description				Batch Invc Date	Inv Due Date	
G.L. Account	CC1	CC2	CC3	GL Account Name			Amount
<b>DEPARTMENT 0700 Union Water System</b>							
<b>010103</b>	<b>ASSOCIATED ENGINEERING (ONT) LTD</b>						
526283	SCADA PROCESS NARRATIVE				492 13-Sep-2019	19-Sep-2019	
70-7-0700-8780				SCADA System			13,649.84
526285	CO2 PH ADJUSTMENT SYSTEM - SEP6				492 13-Sep-2019	19-Sep-2019	
70-7-0700-8745	700200			Treatment Plant			10,395.11
526286	CO2 PH ADJUSTMENT SYSTEM - SEP6				492 13-Sep-2019	19-Sep-2019	
70-7-0700-8745	700200			Treatment Plant			2,260.00
<b>020120</b>	<b>BELL MOBILITY CELLULAR</b>						
514877178-SE	MONTHLY CELL PHONE CHARGES				493 01-Sep-2019	19-Sep-2019	
70-5-0700-7110	002070	002083		Telecommunications Usage			21.47
<b>030004</b>	<b>C3 WATER INC</b>						
201908-288	WATER MODELING UPDATES				492 31-Aug-2019	19-Sep-2019	
70-5-0700-7989	002075			Operational Programs & Studies			2,373.00
<b>040102</b>	<b>DIMENNA EXCAVATING CONTRACTORS INC</b>						
2468	RESIDUAL MANAGEMENT				492 09-Sep-2019	19-Sep-2019	
70-7-0700-8745	700180			Treatment Plant			34,959.38
<b>130838</b>	<b>MUNICIPALITY OF LEAMINGTON</b>						
530-17700 SEF	TAXES - 446 TALBOT W				492 10-Sep-2019	19-Sep-2019	
70-5-0700-6750	002072			Property Tax			947.00
<b>190751</b>	<b>SUMMA ENGINEERING LIMITED</b>						
PC#5 114699	PMT#5 SCADA UPGRADES				492 30-Aug-2019	19-Sep-2019	
70-7-0700-8780				SCADA System			103,782.59
<b>230060</b>	<b>WATECH SERVICES INC</b>						
3826	RESERVOIR INSPECTION				492 30-Aug-2019	19-Sep-2019	
70-7-0700-8745	700040			Treatment Plant			5,469.20
<b>Department Totals :</b>							<b>173,857.59</b>



Vendor : 0011450 To PT00000171

Batch : All

Department : All

EFT Paid Date : 18-Sep-2019 To 20-Sep-2019

Bank : 07 To 08

Class : All

Vendor Code	Vendor Name				Batch	Inv Date	Inv Due Date	Amount
Invoice No.	Description							
G.L. Account	CC1	CC2	CC3	GL Account Name				
<b>DEPARTMENT 0700 Union Water System</b>								
<b>050099 ENBRIDGE GAS INC</b>								
1929770177678	5.995M3 GAS - COTTAM BOOSTER STATION				491	12-Sep-2019	19-Sep-2019	
70-5-0700-7410	002073			Gas				26.69
<b>050230 ESSEX-WINDSOR SOLID WASTE AUTHORITY</b>								
28555	AUG/19 RESIDUAL MGMT				491	31-Aug-2019	19-Sep-2019	
70-7-0700-8745	700180			Treatment Plant				9,143.60
<b>070100 GOLDER ASSOCIATES LTD</b>								
1044165	CO2 PH ADJUSTMENT SYSTEM - AUG25				491	05-Sep-2019	19-Sep-2019	
70-7-0700-8745	700200			Treatment Plant				361.43
<b>080250 HYDRO ONE NETWORKS INC</b>								
200141677460-	AUG/19 HYDRO - RUTHVEN WATER TREATMENT				491	10-Sep-2019	19-Sep-2019	
70-5-0700-7420	002073			Electricity				88,196.53
200141680692-	AUG/19 HYDRO - LOW LIFT				491	10-Sep-2019	19-Sep-2019	
70-5-0700-7420	002073			Electricity				-5.25
70-5-0700-7420	002073			Electricity				49,180.47
200141682009-	AUG/19 HYDRO - ALBUNA WATER TOWER				491	30-Aug-2019	19-Sep-2019	
70-5-0700-7420	002073			Electricity				-15.71
70-5-0700-7420	002073			Electricity				226.02
200141683726-	AUG/19 HYDRO - METER#15				491	10-Sep-2019	19-Sep-2019	
70-5-0700-7420	002073			Electricity				-2.78
70-5-0700-7420	002073			Electricity				39.23
200152134969-	AUG/19 HYDRO - METER#17				491	10-Sep-2019	19-Sep-2019	
70-5-0700-7420	002073			Electricity				-2.82
70-5-0700-7420	002073			Electricity				39.86
200208899066-	AUG/19 HYDRO - METER#16				491	16-Sep-2019	19-Sep-2019	
70-5-0700-7420	002073			Electricity				-7.92
70-5-0700-7420	002073			Electricity				111.89
<b>150365 ONTARIO CLEAN WATER AGENCY</b>								
INV000115616	AUG/19 OPER&MTCE				491	31-Aug-2019	19-Sep-2019	
70-5-0700-6720	002071			OCWA Operating Contract				241,376.00
<b>190755 SUN LIFE ASSURANCE COMPANY OF CANADA</b>								
SEP-19	SEP/19 UNION WATER LOAN 3724:1				491	01-Sep-2019	19-Sep-2019	
70-5-0700-6000	002020 006901			Debenture Principal				149,906.60
70-5-0700-6100	002010 006901			Debenture Interest				106,646.40
<b>Department Totals :</b>								<b>645,220.24</b>

## Council/Board Report By Dept-(Computer)



AP5130

Page : 37

Date : Oct 08, 2019

Page 16 of 18

Vendor : 0011450 To PT00000180

Batch : All

Department : All

Cheque Print Date : 01-Oct-2019 To 04-Oct-2019

Bank : 07 To 08

Class : All

Vendor Invoice	Vendor Name Description				Batch Invc Date	Inv Due Date	
G.L. Account	CC1	CC2	CC3	GL Account Name			Amount
<b>DEPARTMENT 0700 Union Water System</b>							
<b>010103</b>	<b>ASSOCIATED ENGINEERING (ONT) LTD</b>						
526294	SECONDARY DISINFECTION REVIEW				548 16-Sep-2019	03-Oct-2019	
70-5-0700-7950	002070			Professional Services			3,231.80
<b>030256</b>	<b>CARMEN'S CATERING SERVICE INC</b>						
7644	LUNCH MEETING - REVIEW OF MODEL				548 10-Sep-2019	03-Oct-2019	
70-5-0700-7052	002070			Meeting Expenses			152.27
<b>040102</b>	<b>DIMENNA EXCAVATING CONTRACTORS INC</b>						
2470	RESIDUAL MGMT (2ND 1/2 OF 2019)				548 19-Sep-2019	03-Oct-2019	
70-7-0700-8745	700180			Treatment Plant			34,959.38
2472	RESIDUAL MGMT (EXTRA LOAD)				548 26-Sep-2019	03-Oct-2019	
70-7-0700-8745	700180			Treatment Plant			28,222.01
<b>180325</b>	<b>RICOH CANADA INC</b>						
SCO92534612	COPIER CONTRACT - MAY28-JUN30				548 20-Sep-2019	03-Oct-2019	
70-5-0700-7010	002070			Office Supplies			89.38
SCO92534613	COPIER CONTRACT - JUN18-JUL30				548 20-Sep-2019	03-Oct-2019	
70-5-0700-7010	002070			Office Supplies			97.49
SCO92534614	COPIER CONTRACT - JUL22-AUG30				548 20-Sep-2019	03-Oct-2019	
70-5-0700-7010	002070			Office Supplies			100.55
<b>230440</b>	<b>WILLIS BUSINESS LAW</b>						
11343	LEGAL CONSULTANT-REVIEW OPERATING CONTRACT				548 31-Aug-2019	03-Oct-2019	
70-5-0700-7950	002070			Professional Services			91.53
<b>Department Totals :</b>							<b>66,944.41</b>





Vendor : 0011450 To PT00000180

Batch : All

Department : All

EFT Paid Date : 01-Oct-2019

To 04-Oct-2019

Bank : 07 To 08

Class : All

Vendor Code	Vendor Name								
Invoice No.	Description								
G.L. Account	CC1	CC2	CC3	GL Account Name	Batch	Inv Date	Inv Due Date	Amount	
<b>DEPARTMENT 0700</b>	Union Water System								
<b>010045</b>	<b>AIR LIQUIDE CANADA INC.</b>								
70098972	CO2 PH ADJUSTMENT SYSTEM				549	20-Jun-2019	03-Oct-2019		
70-7-0700-8745		700200		Treatment Plant				308,487.74	
<b>030405</b>	<b>COLLABRIA</b>								
519 TABLE&PO DINNER MEETING - BOUCHARD, DILLEN, REIVE, FRASER&JOBB					537	27-Aug-2019	30-Sep-2019		
70-5-0700-7052		002070		Meeting Expenses				141.84	
70-5-0700-7052		002070		Meeting Expenses				25.53	
BIERMARKT-59 MEAL - AMO CONF - K.JOHNSON					537	17-Aug-2019	30-Sep-2019		
70-5-0700-7050		002070		Conferences				27.29	
CDN DOMAIN-4 DOMAIN NAME - YEARLY WEBSITE FEE					537	12-Aug-2019	30-Sep-2019		
70-5-0700-7950		002070		Professional Services				23.72	
CDN TIRE-SEP MUGS					537	10-Sep-2019	30-Sep-2019		
70-5-0700-7052		002070		Meeting Expenses				67.75	
DELTA - 1918 ROOM - AMO CONF - K.JOHNSON					537	21-Aug-2019	30-Sep-2019		
70-5-0700-7050		002070		Conferences				652.23	
IMPARK-AUG17 PARKING - AMO CONF - K.JOHNSON					537	21-Aug-2019	30-Sep-2019		
70-5-0700-7050		002070		Conferences				70.00	
STAR METROL TORONTO STAR DIGITAL SUBSCRIPTION					537	13-Aug-2019	30-Sep-2019		
70-5-0700-7020		002070		Dues, Memberships and Subscriptions				1.12	
WEF - AUG22 WEF ANNUAL MEMBERSHIP					537	22-Aug-2019	30-Sep-2019		
70-5-0700-7020		002070		Dues, Memberships and Subscriptions				317.23	
ZEHRs-SEP11 FRUIT TRAY, CREAM, COOKIES - MEETING SUPPLIES					537	11-Sep-2019	30-Sep-2019		
70-5-0700-7052		002070		Meeting Expenses				27.05	
<b>050099</b>	<b>ENBRIDGE GAS INC</b>								
1929770208308 62.126M3 GAS - RUTHVEN WATER TREATMENT PLANT					549	23-Sep-2019	03-Oct-2019		
70-5-0700-7410		002073		Gas				98.62	
<b>050195</b>	<b>ESSEX POWERLINES CORPORATION</b>								
220651-SEP19 14KWH - METER#4					549	19-Sep-2019	03-Oct-2019		
70-5-0700-7420		002073		Electricity				43.34	
<b>080250</b>	<b>HYDRO ONE NETWORKS INC</b>								
200141680894- SEP/19 HYDRO - LEAMINGTON WATER TOWER					549	30-Sep-2019	03-Oct-2019		
70-5-0700-7420		002073		Electricity				-23.26	
70-5-0700-7420		002073		Electricity				328.41	
200141681706- SEP/19 HYDRO - METER#2					549	26-Sep-2019	03-Oct-2019		
70-5-0700-7420		002073		Electricity				-3.01	
70-5-0700-7420		002073		Electricity				42.59	
200141682009- SEP/19 HYDRO - ALBUNA WATER TOWER					549	01-Oct-2019	03-Oct-2019		
70-5-0700-7420		002073		Electricity				-12.83	
70-5-0700-7420		002073		Electricity				184.29	
200141683019- AUG/19 HYDRO - METER#3					549	30-Sep-2019	03-Oct-2019		
70-5-0700-7420		002073		Electricity				-2.81	
70-5-0700-7420		002073		Electricity				40.12	
200141683019- SEP/19 HYDRO					549	30-Sep-2019	03-Oct-2019		
70-5-0700-7420		002073		Electricity				-2.81	
70-5-0700-7420		002073		Electricity				40.26	
200141683120- SEP/19 HYDRO - METER#5					549	01-Oct-2019	03-Oct-2019		
70-5-0700-7420		002073		Electricity				-2.86	
70-5-0700-7420		002073		Electricity				40.30	
200141683423- SEP/19 HYDRO - METER#6					549	30-Sep-2019	03-Oct-2019		
70-5-0700-7420		002073		Electricity				-2.81	
70-5-0700-7420		002073		Electricity				39.77	



Vendor : 0011450 To PT00000180

Batch : All

Department : All

EFT Paid Date : 01-Oct-2019 To 04-Oct-2019

Bank : 07 To 08

Class : All

Vendor Code	Vendor Name				Batch	Inv Date	Inv Due Date	
Invoice No.	Description							Amount
G.L. Account	CC1	CC2	CC3	GL Account Name				
<b>DEPARTMENT 0700 Union Water System</b>								
200141683524	SEP/19 HYDRO - METER#8				549	26-Sep-2019	03-Oct-2019	
70-5-0700-7420		002073		Electricity				-2.82
70-5-0700-7420		002073		Electricity				39.93
200141683726	SEP/19 HYDRO - METER#15				549	25-Sep-2019	03-Oct-2019	
70-5-0700-7420		002073		Electricity				-2.81
70-5-0700-7420		002073		Electricity				39.65
200141687362	SEP/19 HYDRO - METER#22				549	26-Sep-2019	03-Oct-2019	
70-5-0700-7420		002073		Electricity				-3.00
70-5-0700-7420		002073		Electricity				42.45
200141687766	SEP/19 HYDRO - METER#29				549	26-Sep-2019	03-Oct-2019	
70-5-0700-7420		002073		Electricity				-3.21
70-5-0700-7420		002073		Electricity				45.29
200141687867	SEP/19 HYDRO - METER#24				549	26-Sep-2019	03-Oct-2019	
70-5-0700-7420		002073		Electricity				-2.81
70-5-0700-7420		002073		Electricity				39.65
200141690190	SEP/19 HYDRO - METER#26				549	26-Sep-2019	03-Oct-2019	
70-5-0700-7420		002073		Electricity				-4.56
70-5-0700-7420		002073		Electricity				64.40
200220161473	SEP/19 HDYRO - METER#14				549	24-Sep-2019	03-Oct-2019	
70-5-0700-7420		002073		Electricity				-2.86
70-5-0700-7420		002073		Electricity				40.45
<b>130120</b>	<b>MAPLE REINDERS CONSTRUCTORS LTD</b>							
PC#5 24803	PMT#5 CO2 INJ/CL2				549	31-Aug-2019	03-Oct-2019	
70-7-0700-8745		700200		Treatment Plant				442,153.19
70-7-0700-8745		700200		Treatment Plant				49,128.13
<b>190185</b>	<b>SGS CANADA INC. ENVIRONMENTAL SERVICES</b>							
11277606	WATER QUALITY STUDIES CORROSION-KINGSVILLE				549	27-Sep-2019	03-Oct-2019	
70-5-0700-7989		002075		Operational Programs & Studies				98.31
11277609	WATER QUALITY STUDIES CORROSION-LEAMINGTON				549	27-Sep-2019	03-Oct-2019	
70-5-0700-7989		002075		Operational Programs & Studies				98.31
11277651	WATER QUALITY STUDIES CORROSION-ESSEX				549	27-Sep-2019	03-Oct-2019	
70-5-0700-7989		002075		Operational Programs & Studies				98.31
11277659	WATER QUALITY STUDIES CORROSION-UWSS				549	27-Sep-2019	03-Oct-2019	
70-5-0700-7989		002075		Operational Programs & Studies				915.30
<b>190635</b>	<b>STANTEC CONSULTING LTD</b>							
1422033	COTTAM BOOSTER STATION - GRADING - SEP13				549	20-Sep-2019	03-Oct-2019	
70-7-0700-8725		700030		Cottam Booster Station				1,857.45
1423266	HIGH LIFT PUMP SYSTEM REVIEW - SEP20				549	25-Sep-2019	03-Oct-2019	
70-5-0700-7950		002070		Professional Services				8,038.16
<b>Department Totals :</b>								<b>813,325.72</b>