



JOINT BOARD OF MANAGEMENT

Wednesday, July 31, 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, June 19, 2019
Pages 2 - 7

D. Business Arising Out of the Minutes

E. Items for Consideration:

1. UW/22/19 dated July 26, 2019 re: Status Update of UWSS Operations & Maintenance Activities and Capital Works to July 26, 2019
Pages 8 - 10
2. UW/23/19 dated July 26, 2019 re: Payments from June 6th, 2019 to July 26, 2019
Pages 11 - 21

F. New Business:

G. Adjournment:

H. Date of Next Meeting: TBD



JOINT BOARD OF MANAGEMENT

Wednesday, June 19, 2019
9:00 AM

Ruthven Water Treatment Plant
1615 Union Avenue,
Ruthven

MINUTES

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

Members Absent: Councillor Hammond - Leamington

Staff Present: Shaun Martinho - Kingsville
Kevin Girard - Lakeshore

OCWA Staff Present: Susan Budden, Dave Jubenville
Dale Dillen

Call to Order: 9:01 am

Disclosures of Pecuniary Interest: none

Adoption of Board Minutes:

No. UW-29-19

Moved by: Deputy Mayor Verbeke

Seconded by: Councillor Wilkinson

That Minutes of the UWSS Joint Board of Management meeting of May 15, 2019
be received.

Carried

Business Arising Out of the Minutes:

There was none.

Report UW/18/19 dated June 14, 2019 re: Status Update of the UWSS Operations & Maintenance Activities and Capital Works to June 14, 2019

The Manager reviews his report with board members. He updates members on repairs and operational activities since the last meeting.

The Manager explains that with the very wet Spring the Cottam Booster Station (CBS) grading project has been put on hold. The contractor has asked to move the completion date to later in July or August as they need a dryer window to complete this project.

The SCADA project is moving forward. The Manager informs the members that he and the operations team travelled to Mississauga for a Factory Acceptance Test (FAT) regarding the four (4) water towers on May 30th. The second FAT meeting is scheduled for next week and will cover the CBS. The final FAT meeting is scheduled to take place at the WTP to cover the plant and this will involve many aspects of operational staff participation. He notes that the SCADA computer screens will be shown to board members once they are closer to completion.

The CO2 pH Adjustment project is still ongoing. The Manager provides pictures of the work in progress. The chlorine building expansion underpinning and foundation works have been completed. The cement pad for the CO2 tank is almost cured and the actual tank should be arriving in the next few weeks. The second pad for the scrubber system is almost complete, but that part should arrive by August. The Manager notes that the chlorine system is on a temporary setup. There has been an issue with obtaining some of the components for the new chlorine injection system. It is his understanding that some of the parts will not arrive until October. Once these parts arrive the installation should be relatively quick.

The new soft start for High Lift (HL) Pump #8 arrived, was installed, and put back in service on June 3rd. It was discovered that HL Pump #6 had a big vibration. Phasor was called in to look at and repair the motor. Repairs have been made and it is now back in service. The new control valve #9 (VC#9), that controls water to the EWT and Essex Centre, has been installed and is now back in service as of May 20th.

The Manager informs the board that the WTP has switched coagulants again. He reminds them that as the water warms the aluminum residual tends to rise, hence the necessity to change coagulants. He confirms that this should be the case until October. He does confirm that the new coagulant is much more expensive and creates a lot more sludge, but reminds members that water quality is of utmost importance.

The new sodium hypochlorite injection pumps were installed at the Low Lift (LL). They are larger in size and will assist with zebra mussel control.

The Manager notes that the flows are down slightly over last year, but still up over the four (4) year average. He notes that the very wet Spring is a contributing factor.

The board asks the Manager about the pump changes that have occurred, and if there are any losses or down time that should be a concern. The Manager explains that there has never been a concern about one pump being off too long, as there are others to cover.

No. UW-30-19

Moved by: Councillor Patterson

Seconded by: Councillor Neufeld

That report UW/18/19 dated June 14, 2019 re: Status Update of the UWSS Operations & Maintenance Activities and Capital Works to June 14, 2019 is received.

Carried (UW/18/19)

Report UW/19/19 dated June 14, 2019 re: 2019 Energy Conservation Demand Management (CDM) Plan update for the UWSS Facilities

The Manager reviews his report on the 2019 Energy Conservation Demand Management (CDM) Plan. He explains that the CDM plan is currently in draft form, and doesn't like to ask to approve anything in draft, but he is looking for approval in principal. This is in order to get the CDM plan on to the website prior to the July 1st deadline.

The Manager briefly reviews the history of the CDM plan and the 2014 CDM that has been in place over the last five (5) years. He notes that UWSS facilities have had an energy reduction of 5-8% from the 2014 baseline. He further explains 2014 numbers to 2018 figures and notes although the amount of energy used has increased, this is due to the increase in water demand during that period. However, using a comparison of kilowatt hours per mega litre of water pump shows that energy consumption has decreased since 2014. .

Further explaining that new lights, valves that don't leak, variable speed pumps etc., have all added to UWSS energy reduction, as well as working with OCWA on other initiatives. The 2014 goals set out in that plan have been met.

The new goals set out in the new CDM plan will be more difficult to achieve, but UWSS will continue to work on them leading up to 2024. The Manager is considering solar energy to assist in achieving those goals. The battery storage has vastly improved in solar panels and he feels the timing is right to try this resource. He further notes that the UWSS has 3.5 acres of potential land to use for solar energy.

He further notes that the UWSS will continue to improve efficiencies in other areas such as the installation of another reservoir around the HL area, new pumps.

The Board asks if all the new investment in efficiencies is worth it financially. The Manager believes it is as this point. The Board also asks if the Province sets the numbers or if UWSS sets the target goals. The Manager confirms that the UWSS sets the targets, however, it should be noted that a water plant will always have energy use, and when it is hotter out and the WTP is pumping more water, that is generally the most expensive time of the day. There are limits as to how much energy the UWSS can conserve. The Manager also confirms that he will be working with an energy expert with regard to the impact of solar energy for the UWSS, and will bring any information back to the board.

No. UW-31-19

Moved by: Councillor Jacobs

Seconded by: Councillor Wilkinson

That the Union Water Supply System Joint Board of Management (UWSS Board) receives UWSS Report UW/19/19 Energy Conservation Demand Management (CDM) Plan Update for UWSS Facilities for information purposes; and

That the UWSS Board endorses in principle the goals of the draft Union Water Supply System Energy Conservation and Demand Management Plan 2020-2024 Green Energy Act - Ontario Regulation 397/11 prepared by the Ontario Clean Water Agency (OCWA) for the Union Water Supply System.

Carried (UW/19/19)

Report UW/20/19 dated June 14, 2019 re: UWSS Secondary Disinfection Review

The Manager reminds members of the Board that the UWSS Ruthven WTP switched over from chloramination to free chlorine on June 4th of 2018. At that time it was to be a temporary switch, however, with approval of the MECP a one year approval was put in place. However, the Manager confirms that the switch to free chlorine will remain in place until December of 2019. This allows UWSS to collect data through all four seasons, which is helpful in determining the best course of action.

The Manager informs members that a meeting with all four (4) member municipalities took place in April 2019 to discuss the results thus far. So far there have been no real issues, other than a few taste/odor complaints. UWSS is working with the municipalities to determine where to install autoflushers.

He further explains the benefits to working with free chlorine, namely that it is easier to increase the residual when needed, easier to work with for the operators, and it is a more aggressive disinfectant. He notes that there is general support to moving to free chlorine on a permanent basis. However, there is also support to have a third party consultant review the data and determine their own conclusion.

The Manager explains that he has been working with Associated Engineering (AE) and he feels it is best to have a firm that understands the workings of the UWSS system. AE has provided a proposal to the UWSS for the work, which comes in at \$33,800. The Manager is asking for \$40,000 from reserves; the higher price is for an unexpected testing that may be required.

The Board also notes that the chloramination system was a costly system to put in many years ago and while some may like free chlorine more the Board does not want to go back to all the Boil Water Advisories (BWA) that were so frequent at one time. The Manager does not want to dispute what was done in the past, but wants to ensure that UWSS is moving forward in a beneficial way for the UWSS.

The Manager feels that this data collection and the third party consultant will provide a solid understanding of whether or not the switch to free chlorine will benefit the UWSS.

No. UW-32-19

Moved by: Councillor Walstedt

Seconded by: Councillor Dunn

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

And further, that the Board approves a budget of \$40,000 to be funded from the 2019 UWSS Operations Reserve for the undertaking of the Secondary Disinfection evaluation and review;

And further, that the UWSS Board authorizes the UWSS General Manager to undertake a direct negotiation with Associated Engineering for the this work.

Carried (UW/20/19)

Report UW/21/19 dated June 14, 2019 re: Payments from May 10 to June 14, 2019

No. UW-33-19

Moved by: Deputy Mayor Verbeke

Seconded by: Councillor DeYong

That report UW/21/19 dated June 14, 2019 re: Payments from May 10 to June 14, 2019 is received.

Carried (UW/21/19)

New Business

The Board asks the Manager if the UWSS is prepared regarding any potential algae bloom in Lake Erie this year. The Manager notes that the UWSS and OCWA team are ready. There is continuous monitoring occurring and adjustments will be made if necessary. He confirms that the UWSS is still working with two (2) universities and he confirms that larger sodium pumps have been installed at the Low Lift to help address algae related issues.

The Board also asks whether it should consider the potential purchase of surrounding land, for any future needs. The Manager indicates that at this point there is plenty of land surrounding the UWSS that there is no concern about being land locked.

The Manager confirms that the UWSS and its municipal partners met to discuss the issue of Common Assets. All aspects of municipal administration were present and he feels that a plan to move forward has been identified. He is hoping to address the Common Asset issue within the restructuring framework that is taking place.

The Manager also confirms that the OCWA Operations Contract is being reviewed by the UWSS Legal Council and he is hoping to have a final version ready for the next meeting.

Adjournment:

Moved by: Deputy Mayor Queen

Seconded by: Councillor Jacobs

That the meeting adjourn at 9:43 am

Carried

Date of Next Meeting: Wednesday, July 31, 2019 at 9:00 am at the Ruthven Water Treatment Plant

/kmj

UW/22/19

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

From: Rodney Bouchard, Union Water Manager

Date: July 26, 2019

Re: Status Update of UWSS Operations & Maintenance Activities and Capital Works to July 26, 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 completion of the Cottam Booster Reservoir soil cover rehabilitation project is scheduled to be completed in late August or early September 2019.
3. SCADA Upgrade Project Update: UWSS and pertinent OCWA operations staff attended a Factory Acceptance Test (FAT) meeting at the offices of the SCADA upgrade project integrator, SUMMA Engineering, in Mississauga, ON on June 20th, 2019. The purpose of the meeting was to "Factory Test" the process control narrative (PCN) for PLCs for the Cottam Booster. This was the second FAT testing for the SCADA Project. FAT Testing for Albuna, Essex, Leamington and Kingsville Water Towers was previously completed in May 2019.

A workshop was held at the UWSS Ruthven WTP on July 11, 2019 with UWSS, OCWA and AE to review and complete the Process Narrative (PN) for the Ruthven Treatment Plant Processes. This PN is being used by SUMMA to develop the PCN for the Treatment Plant Processes, which will be Factory Tested at the Ruthven WTP in August 2019.

A list of equipment needed for the SCADA upgrade project (i.e. PLCs, servers, screens, etc.) has been provided and reviewed/approved by UWSS/OCWA and UWSS' engineer, AE. This equipment is in process of being ordered and installation is scheduled to begin early September 2019.

4. CO₂ pH Adjustment/ Chlorine System Improvements Project Update - The 50-ton CO₂ tank was delivered to the WTP on July 18, 2019 and installed on the concrete pad by the contractor, Maple Reinders.

Excavations for CO₂ injection chambers on the two raw water lines have been completed. Concrete support foundations under the raw water pipes and for installation of the chambers are complete and waiting for appropriate curing time before installation of precast chambers.

Concrete foundations and flooring, lintels and necessary opening for the chlorine building “bump out” have been completed. It’s anticipated that the “bump out” addition to the chlorine building will be completed in late August/early September.

The engineering flooring structure within former microstrainer #2 basin has been completed. This area will be used for staging of CO₂ dissolution and injection control skids/equipment that has already been delivered to the WTP. The CO₂ dissolution and injection controls skids will be installed in during the month of August 2019.

5. High lift Pump #5 Breaker experienced a failure. A new breaker has been purchased and scheduled for install in the next month.
6. OCWA Staff are working on improving the appearance of the front of the water plant by redoing the gardens. It is anticipated that this work will be ongoing into the fall.
7. DiMenna Excavating has been retained to remove more solids from the residuals pile in the back of the Ruthven WTP property. Removal of solids will be started in August 2019. The work includes removal of approximately 2,500 tons of materials that will be sent to the EWSWA landfill for use as daily cover.
8. The mixer in the Essex tower failed. A new mixer was purchased and installed by Greatario on June 26th, 2019.
9. Stantec (Windsor Office) has been retained to complete preliminary design and engineering for the sizing and costing of a new 5000 Imperial gallons per minute (igpm) pump for the north high lift bay. This high lift bay currently only has two pumps, HL #8 and #9, which are the largest high lift pumps at the WTP (8000+ igpm each). A smaller pump is needed in this high lift bay to provide flexibility in case the south high lift bay needs to be shut down for repairs.
10. Stantec has also been retained to complete preliminary design/engineering for redesign of the Administration portion of the WTP building to include an elevator, additional office space, and additional conference/ meeting/ training space.

Re: UW/22/19 - Status Update of UWSS Operations & Maintenance Activities and Capital Works to July 26, 2019

11. MOE inspection report for the Town of Leamington was received on July 11th with an inspection rating of 100% and the Inspection report for Essex Distribution was received on July 25th with a 100% inspection rating.
12. UWSS was notified on July 19th, 2019 by the Ministry of Environment, Compliance and Parks (MECP) that the UWSS had been issued a new Municipal Drinking Water License (MDWL No. 041-101 Issue #7 dated July 18th, 2019) and a new Drinking Water Works Permit (DWWP No. 041-201 Issue #5 dated July 18th, 2019). The UWSS also received correspondence dated July 4th, 2019 from the MECP of acceptance of the UWSS Operational Plan dated April 2018. It should be noted that the new MDWL includes additional provisions and conditions that the UWSS and OCWA need to meet such as a chlorine residual for any process water being discharged to the environment; requirement to prepare an algal toxin monitoring plan and conduct sampling for algal toxins (this used to be more of a recommendation); compliance with source water protection initiatives and implementation of risk management measures for threats as per the Essex Region Source Protection Plan, etc.

Comparative Flows for 2015 through 2019 in Millions of Imperial Gallons (for the period 1 January to July 25, 2019)

	2015	2016	2017	2018	2019
Flow to Date (MG)	1756.97	1927.95	1879.47	2070.72	2054.85
Max Day (MGD)	14.56	16.75	16.17	18.14	18.79
Min Day (MGD)	3.79	4.29	4.56	5.18	4.43
Average Day (MGD)	8.53	9.31	9.12	10.05	9.98
No of Days	206	207	206	206	206

Flows to date are down 15.87 MIG or 0.77% from last year. The 2019 flows to date are up 7.71% 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

UW/23/19

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

From: Rodney Bouchard, Union Water Manager

Date: July 26, 2019

Re: Payments for the UWSS from June 06th to July 26th, 2019



Aim:

To provide the Board with a copy of payments made by the Union Water Supply System from June 14th to July 26, 2019.

Recommendation:

For information purposes.

Respectfully submitted,



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

rb/kmj

Filename: t:\union wtr\reports to board\2019\uw23-19 payments from june to july 2019.docx

MUNICIPALITY OF LEAMINGTON
Council/Board Report By Dept-(Computer)



AP5130 **Page :** 32
Date : Jun 24, 2019 **Time :** 3:52 pm

Vendor : 0011450 To PT00000167
Batch : All
Department : All

Cheque Print Date : 06-Jun-2019 **To** 18-Jun-2019
Bank : 07 To 08
Class : All

Vendor Invoice	Vendor Name Description				GL Account Name	Batch Invc Date	Invc Due Date	Amount
G.L. Account	CC1	CC2	CC3					
DEPARTMENT 0700 Union Water System								
050003 E.L.K. ENERGY INC								
40010915-MAY	939KWH - ESSEX WATER TOWER					300 01-Jun-2019	14-Jun-2019	
70-5-0700-7420	002073			Electricity				-9.25
70-5-0700-7420	002073			Electricity				130.72
40047150-MAY	101KWH - METER #9					300 01-Jun-2019	14-Jun-2019	
70-5-0700-7420	002073			Electricity				-2.26
70-5-0700-7420	002073			Electricity				31.87
51976611-MAY	1387KWH - KINGSVILLE WATER TOWER					300 01-Jun-2019	14-Jun-2019	
70-5-0700-7420	002073			Electricity				-18.67
70-5-0700-7420	002073			Electricity				263.84
90006300-MAY	14640KWH - COTTAM BOOSTER STATION					300 01-Jun-2019	14-Jun-2019	
70-5-0700-7420	002073			Electricity				2,257.13
130838 MUNICIPALITY OF LEAMINGTON								
530-17700 JUN	TAXES - 446 TALBOT W					300 12-Jun-2019	14-Jun-2019	
70-5-0700-6750	002072			Property Tax				947.49
180325 RICOH CANADA INC								
SCO92408678	COPIER CONTRACT - APR23-MAY30					300 31-May-2019	14-Jun-2019	
70-5-0700-7010	002070			Office Supplies				127.21
Department Totals :								3,728.08



Vendor : 0011450 To PT00000167

Batch : All

Department : All

EFT Paid Date : 06-Jun-2019

To 18-Jun-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				
DEPARTMENT 0700	Union Water System							
030405	COLLABRIA							
AIRPORT TAXI-	TAXI - TORONTO ISLAND AIRPORT TO DELTA HOTEL				286	07-May-2019	06-Jun-2019	
70-5-0700-7050	002070			Conferences				19.00
ALOFT - 260915	ROOM - R.BOUCARD - CWN CLG MTG				286	06-May-2019	06-Jun-2019	
70-5-0700-7050	002070			Conferences				178.63
BEN THANH-41	MEAL - OWWA CONF - R.BOUCARD				286	08-May-2019	06-Jun-2019	
70-5-0700-7050	002070			Conferences				55.07
BLUE LINE TAXI	- OWWA CONF				286	06-May-2019	06-Jun-2019	
70-5-0700-7050	002070			Conferences				11.50
BOSTON PIZZA	MEAL - CWN CLG MTG				286	05-May-2019	06-Jun-2019	
70-5-0700-7050	002070			Conferences				51.97
CAPITAL TAXI-	TAXI - OWWA CONF - AIRPORT TO HOTEL				286	06-May-2019	06-Jun-2019	
70-5-0700-7050	002070			Conferences				41.96
CAPITAL TAXI-	TAXI - HOTEL TO AIRPORT - OWWA CONF				286	07-May-2019	06-Jun-2019	
70-5-0700-7050	002070			Conferences				43.12
DELTA - 348856	ROOM - R.BOUCARD - CWN CLG MTG				286	08-May-2019	06-Jun-2019	
70-5-0700-7050	002070			Conferences				397.21
FOUR POINTS-	ROOM - K.JOHNSON - DWQMS CONF				286	16-Apr-2019	06-Jun-2019	
70-5-0700-7050	002070			Conferences				144.55
FOUR POINTS-	ROOM - R.BOUCARD - U OF T RESEARCH GROUP				286	12-Apr-2019	06-Jun-2019	
70-5-0700-7052	002070			Meeting Expenses				173.93
JACK ASTORS-	MEAL - K.JOHNSON - DWQMS CONF				286	16-Apr-2019	06-Jun-2019	
70-5-0700-7050	002070			Conferences				28.44
MACS CEN-011	GAS - RENTAL CAR - OWWA CONF				286	13-May-2019	06-Jun-2019	
70-5-0700-7050	002070			Conferences				60.24
OWWA-MAY2	OWWA - WINDOWS ON OTTAWA - R.BOUCARD				286	02-May-2019	06-Jun-2019	
70-5-0700-7050	002070			Conferences				960.50
OWWA-MAY6-8	OWWA CONF - D.DILLEN				286	23-Apr-2019	06-Jun-2019	
70-5-0700-7050	002070			Conferences				84.75
PORTER AIR-B	FLIGHT - R.BOUCARD - OWWA CONF				286	23-Apr-2019	06-Jun-2019	
70-5-0700-7050	002070			Conferences				377.70
VERNONS-APR	TEAM BUILDING LUNCH				286	18-Apr-2019	06-Jun-2019	
70-5-0700-7052	002070			Meeting Expenses				258.77
WAEZZEDAH T.	TAXI - CWN CLG MTG				286	06-May-2019	06-Jun-2019	
70-5-0700-7050	002070			Conferences				15.00
ZEHRS-APR24	CREAM, COOKIES, JUICE - MEETING APR24				286	24-Apr-2019	06-Jun-2019	
70-5-0700-7052	002070			Meeting Expenses				14.97
050195	ESSEX POWERLINES CORPORATION							
220651-MAY19	22KWH - METER#4				301	23-May-2019	14-Jun-2019	
70-5-0700-7420	002073			Electricity				-3.25
70-5-0700-7420	002073			Electricity				45.89
080250	HYDRO ONE NETWORKS INC							
200141677460-I	MAY/19 HYDRO - RUTHVEN WTP				301	07-Jun-2019	14-Jun-2019	
70-5-0700-7420	002073			Electricity				61,815.89
200141680692-I	MAY/19 HYDRO - LOW LIFT				301	07-Jun-2019	14-Jun-2019	
70-5-0700-7420	002073			Electricity				-4.50
70-5-0700-7420	002073			Electricity				31,484.59
200141680894-I	MAY/19 HYDRO - LEAMINGTON WATER TOWER				288	30-May-2019	06-Jun-2019	
70-5-0700-7420	002073			Electricity				-33.70
70-5-0700-7420	002073			Electricity				476.06

MUNICIPALITY OF LEAMINGTON
Council/Board Report By Dept-(EFT)



AP5130

Date : Jun 24, 2019

Page : 75

Time : 3:52pm

Vendor : 0011450 To PT00000167

Batch : All

Department : All

EFT Paid Date : 06-Jun-2019 **To** 18-Jun-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				
DEPARTMENT 0700 Union Water System								
200141681706-I	MAY/19 HYDRO - METER#2				288	30-May-2019	06-Jun-2019	
70-5-0700-7420		002073		Electricity				-2.89
70-5-0700-7420		002073		Electricity				40.83
200141682009-I	MAY/19 HYDRO - ALBUNA WATER TOWER				301	31-May-2019	14-Jun-2019	
70-5-0700-7420		002073		Electricity				-71.48
70-5-0700-7420		002073		Electricity				1,009.60
200141683019-I	MAY/19 HYDRO - METER#3				288	30-May-2019	06-Jun-2019	
70-5-0700-7420		002073		Electricity				-2.64
70-5-0700-7420		002073		Electricity				37.15
200141683120-I	MAY/19 HYDRO - METER#5				301	31-May-2019	14-Jun-2019	
70-5-0700-7420		002073		Electricity				-2.77
70-5-0700-7420		002073		Electricity				39.16
200141683423-I	MAY/19 HYDRO - METER#6				288	30-May-2019	06-Jun-2019	
70-5-0700-7420		002073		Electricity				-2.63
70-5-0700-7420		002073		Electricity				37.25
200141683524-I	MAY/19 HYDRO - METER#8				288	30-May-2019	06-Jun-2019	
70-5-0700-7420		002073		Electricity				-2.65
70-5-0700-7420		002073		Electricity				37.42
200141687362-I	MAY/19 HYDRO - METER#22				288	30-May-2019	06-Jun-2019	
70-5-0700-7420		002073		Electricity				-2.72
70-5-0700-7420		002073		Electricity				38.44
200141687766-I	MAY/19 HYDRO - METER#29				288	30-May-2019	06-Jun-2019	
70-5-0700-7420		002073		Electricity				-2.83
70-5-0700-7420		002073		Electricity				39.90
200141687867-I	MAY/19 HYDRO - METER#24				288	30-May-2019	06-Jun-2019	
70-5-0700-7420		002073		Electricity				-2.36
70-5-0700-7420		002073		Electricity				33.28
200152134969-I	MAY/19 HYDRO - METER#17				301	06-Jun-2019	14-Jun-2019	
70-5-0700-7420		002073		Electricity				-2.58
70-5-0700-7420		002073		Electricity				36.41
200208899066-I	MAY/19 HYDRO - METER#16				288	14-May-2019	06-Jun-2019	
70-5-0700-7420		002073		Electricity				-7.60
70-5-0700-7420		002073		Electricity				109.55
130120 MAPLE REINDERS CONSTRUCTORS LTD								
PC#2 24640	PMT#2 CO2 INJECT/CL2 GAS SYSTEMS				301	31-May-2019	14-Jun-2019	
70-7-0700-8745		700200		Treatment Plant				123,015.48
70-7-0700-8745		700200		Treatment Plant				13,668.39
150365 ONTARIO CLEAN WATER AGENCY								
INV000113326	MAY/19 OPER&MTCE				301	31-May-2019	14-Jun-2019	
70-5-0700-6720		002071		OCWA Operating Contract				241,376.00
160530 PRICEWATERHOUSE COOPERS LLP								
TR139116133	RESTRUCTURING CONSULTANT - FINANCIAL - FEB28				301	22-Mar-2019	14-Jun-2019	
70-5-0700-7950		002070		Professional Services				13,419.32
TR139150945	RESTRUCTURING CONSULTANT - FINANCIAL - MAY31				301	10-Jun-2019	14-Jun-2019	
70-5-0700-7950		002070		Professional Services				7,839.81
190185 SGS CANADA INC. ENVIRONMENTAL SERVICES								
11245067	WATER QUALITY STUDIES CORROSION-ESSEX				301	29-May-2019	14-Jun-2019	
70-5-0700-7989		002075		Operational Programs & Studies				98.31
11245069	WATER QUALITY STUDIES CORROSION-LEAMINGTON				301	29-May-2019	14-Jun-2019	
70-5-0700-7989		002075		Operational Programs & Studies				98.31
11245077	WATER QUALITY STUDIES CORROSION-KINGSVILLE				301	29-May-2019	14-Jun-2019	

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Date : Jun 24, 2019

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Time : 3:52pm

Vendor : 0011450 To PT00000167

Batch : All

Department : All

EFT Paid Date : 06-Jun-2019

To 18-Jun-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				
DEPARTMENT 0700				Union Water System				
70-5-0700-7989		002075		Operational Programs & Studies				98.31
11245127				WATER QUALITY STUDIES CORROSION-LAKESHORE	301	29-May-2019	14-Jun-2019	
70-5-0700-7989		002075		Operational Programs & Studies				98.31
11245296				WATER QUALITY STUDIES CORROSION-UWSS	301	29-May-2019	14-Jun-2019	
70-5-0700-7989		002075		Operational Programs & Studies				621.50
190755				SUN LIFE ASSURANCE COMPANY OF CANADA				
JUN-19				JUN/19 UNION WATER LOAN 3724:1	301	01-Jun-2019	14-Jun-2019	
70-5-0700-6000		002020	006901	Debenture Principal				122,703.30
70-5-0700-6100		002010	006901	Debenture Interest				110,526.70
Department Totals :								731,617.87

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AP5130 **Page :** 31
Date : Jun 28, 2019 **Time :** 3:46 pm

Vendor : 0011450 To PT00000165
Batch : All
Department : All

Cheque Print Date : 27-Jun-2019 **To** 28-Jun-2019
Bank : 07 To 08
Class : All

Vendor Invoice	Vendor Name Description				GL Account Name	Batch Invc Date	Invc Due Date	Amount	
G.L. Account	CC1	CC2	CC3						
DEPARTMENT 0700 Union Water System									
020120 BELL MOBILITY CELLULAR									
514877178-JUI	MONTHLY CELL PHONE CHARGES					313	01-Jun-2019	27-Jun-2019	
70-5-0700-7110	002070	002083			Telecommunications Usage			21.81	
030004 C3 WATER INC									
201905-288 M/	WATER MODELING UPDATES					322	31-May-2019	27-Jun-2019	
70-5-0700-7989	002075				Operational Programs & Studies			1,328.88	
030410 COLASANTI'S RESTAURANT									
E11788	DONUTS, MUFFINS - COMMON ASSETS MTG.					322	13-Jun-2019	27-Jun-2019	
70-5-0700-7052	002070				Meeting Expenses			37.88	
130838 MUNICIPALITY OF LEAMINGTON									
6441	2019 ADMINISTRATION FEE					322	17-Jun-2019	27-Jun-2019	
70-5-0700-7380	002076				Administration Fee			30,000.00	
230440 WILLIS BUSINESS LAW									
10667	RESTRUCTURING CONSULTANT - LEGAL					322	31-May-2019	27-Jun-2019	
70-5-0700-7950	002070				Professional Services			2,059.40	
Department Totals :								33,447.97	



Vendor : 0011450 To PT00000165
 Batch : All
 Department : All

EFT Paid Date : 27-Jun-2019 To 28-Jun-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					
DEPARTMENT 0700		Union Water System							
050099 ENBRIDGE GAS INC									
1929770177678	113.909M3 GAS - COTTAM BOOSTER STATION				323	12-Jun-2019	27-Jun-2019		
70-5-0700-7410	002073 Gas							53.03	
1929770208308	471.603M3 GAS - RUTHVEN WTP				323	21-Jun-2019	27-Jun-2019		
70-5-0700-7410	002073 Gas							198.88	
070100 GOLDER ASSOCIATES LTD									
1026529	CO2 PH ADJUSTMENT - MAY26				323	12-Jun-2019	27-Jun-2019		
70-7-0700-8745	700200 Treatment Plant							862.30	
080250 HYDRO ONE NETWORKS INC									
200208899066-	JUN/19 HYDRO - METER#16				323	14-Jun-2019	27-Jun-2019		
70-5-0700-7420	002073 Electricity							-6.21	
70-5-0700-7420	002073 Electricity							89.21	
200220161473-	JUN/19 HYDRO - METER#14				323	24-Jun-2019	27-Jun-2019		
70-5-0700-7420	002073 Electricity							-2.35	
70-5-0700-7420	002073 Electricity							33.26	
130620 MONARCH OFFICE SUPPLY INC									
148921	PAPER, NOTEBOOK				323	01-May-2019	27-Jun-2019		
70-5-0700-7010	002070 Office Supplies							64.73	
Department Totals :								1,292.85	

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Vendor : 0011450 To PT00000167

Batch : All

Department : All

Cheque Print Date : 03-Jul-2019 To 12-Jul-2019

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Class : All

Vendor Invoice	Vendor Name Description				GL Account Name	Batch Invc Date	Invc Due Date	Amount
G.L. Account	CC1	CC2	CC3					
DEPARTMENT 0700 Union Water System								
010103 ASSOCIATED ENGINEERING (ONT) LTD								
525912	SCADA UPGRADES - JUN7					353 18-Jun-2019	11-Jul-2019	
70-7-0700-8780				SCADA System				4,569.89
525913	SCADA PROCESS NARRATIVE - JUN7					353 18-Jun-2019	11-Jul-2019	
70-7-0700-8780				SCADA System				13,819.62
525916	CO2 PH ADJUSTMENT SYSTEM - JUN7					353 18-Jun-2019	11-Jul-2019	
70-7-0700-8745	700200			Treatment Plant				17,652.07
020120 BELL MOBILITY CELLULAR								
514877178-JUI	MONTHLY CELL PHONE CHARGES					350 01-Jul-2019	11-Jul-2019	
70-5-0700-7110	002070	002083		Telecommunications Usage				22.76
050003 E.L.K. ENERGY INC								
40010915-JUN	974KWH - ESSEX WATER TOWER					353 01-Jul-2019	11-Jul-2019	
70-5-0700-7420	002073			Electricity				-13.39
70-5-0700-7420	002073			Electricity				189.15
40047150-JUN	95KWH - METER#9					353 01-Jul-2019	11-Jul-2019	
70-5-0700-7420	002073			Electricity				-2.59
70-5-0700-7420	002073			Electricity				36.60
51976611-JUN	1671KWH - KINGSVILLE WATER TOWER					353 01-Jul-2019	11-Jul-2019	
70-5-0700-7420	002073			Electricity				-16.36
70-5-0700-7420	002073			Electricity				231.12
90006300-JUN	18240KWH - COTTAM BOOSTER STATION					353 01-Jul-2019	11-Jul-2019	
70-5-0700-7420	002073			Electricity				3,810.42
230685 WIRED SOLUTIONS								
14233	YEARLY WEB HOSTING FEES					353 20-Jun-2019	11-Jul-2019	
70-5-0700-7270	002070			Software Purchases				257.64
Department Totals :								40,556.93



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Vendor Code	Vendor Name				Batch	Inv Date	Inv Due Date	Amount
Invoice No.	Description							
G.L. Account	CC1	CC2	CC3	GL Account Name				
DEPARTMENT 0700				Union Water System				
030405				COLLABRIA				
CITY TAXI-1398	TAXI - SCADA PROJECT MTG - R.BOUCHARD				344	29-May-2019	04-Jul-2019	
70-5-0700-7052	002070			Meeting Expenses				15.00
CWWA-22157	CWWA CONF. - R.BOUCHARD				344	25-May-2019	04-Jul-2019	
70-5-0700-7050	002070			Conferences				847.50
DELTA - 1206	ROOM - R.BOUCHARD - CWWA CONF				344	05-Jun-2019	04-Jul-2019	
70-5-0700-7050	002070			Conferences				791.74
ENTERPRISE-5	CAR RENTAL - OWWA CONF. - R.BOUCHARD				344	11-May-2019	04-Jul-2019	
70-5-0700-7050	002070			Conferences				234.46
HOLIDAY INN-M	ROOM - SCADA FAT MTG-SUMMA ENG.				344	30-May-2019	04-Jul-2019	
70-5-0700-7052	002070			Meeting Expenses				215.84
IMPARK-JUN5	PARKING - CWWA MTG OTTAWA				344	05-Jun-2019	04-Jul-2019	
70-5-0700-7050	002070			Conferences				20.00
LES SUITES-07	ROOM - R.BOUCHARD - OWWA CONF				344	10-Jun-2019	04-Jul-2019	
70-5-0700-7050	002070			Conferences				777.33
TIM HORTONS-	COFFEE, TIMBITS - COMMON ASSET MTG. SUPPLIES				344	13-May-2019	04-Jul-2019	
70-5-0700-7052	002070			Meeting Expenses				31.31
ZEHR5-MAY13	FRUIT PLATTER - COMMON ASSET MTG. SUPPLIES				344	13-May-2019	04-Jul-2019	
70-5-0700-7052	002070			Meeting Expenses				15.81
050099				ENBRIDGE GAS INC				
1929770217397	536.555M3 GAS - LOW LIFT				354	25-Jun-2019	11-Jul-2019	
70-5-0700-7410	002073			Gas				158.36
050195				ESSEX POWERLINES CORPORATION				
220651-JUN19	17KWH - METER#4				354	24-Jun-2019	11-Jul-2019	
70-5-0700-7420	002073			Electricity				-3.39
70-5-0700-7420	002073			Electricity				47.85
080250				HYDRO ONE NETWORKS INC				
200141680894-	JUN/19 HYDRO - LEAMINGTON WATER TOWER				354	28-Jun-2019	11-Jul-2019	
70-5-0700-7420	002073			Electricity				-37.10
70-5-0700-7420	002073			Electricity				524.08
200141681706-	JUN/19 HYDRO - METER#2				354	26-Jun-2019	11-Jul-2019	
70-5-0700-7420	002073			Electricity				-2.84
70-5-0700-7420	002073			Electricity				40.04
200141682009-	JUN/19 HYDRO - ALBUNA WATER TOWER				354	28-Jun-2019	11-Jul-2019	
70-5-0700-7420	002073			Electricity				-30.22
70-5-0700-7420	002073			Electricity				426.75
200141683019-	JUN/19 HYDRO - METER#3				354	28-Jun-2019	11-Jul-2019	
70-5-0700-7420	002073			Electricity				-2.48
70-5-0700-7420	002073			Electricity				35.09
200141683120-	JUN/19 HYDRO - METER#5				354	28-Jun-2019	11-Jul-2019	
70-5-0700-7420	002073			Electricity				-2.59
70-5-0700-7420	002073			Electricity				36.65
200141683423-	JUN/19 HYDRO - METER#6				354	28-Jun-2019	11-Jul-2019	
70-5-0700-7420	002073			Electricity				-2.51
70-5-0700-7420	002073			Electricity				35.32
200141683524-	JUN/19 HYDRO - METER#8				354	26-Jun-2019	11-Jul-2019	
70-5-0700-7420	002073			Electricity				-2.55
70-5-0700-7420	002073			Electricity				36.08
200141683726-	JUN/19 HYDRO - METER#15				354	25-Jun-2019	11-Jul-2019	
70-5-0700-7420	002073			Electricity				-2.45
70-5-0700-7420	002073			Electricity				34.66



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Department : All

EFT Paid Date : 03-Jul-2019 To 12-Jul-2019

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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				
DEPARTMENT 0700				Union Water System				
200141687362-	JUN/19 HYDRO - METER#22				354	26-Jun-2019	11-Jul-2019	
70-5-0700-7420	002073			Electricity				-2.87
70-5-0700-7420	002073			Electricity				40.62
200141687766-	JUN/19 HYDRO - METER#29				354	26-Jun-2019	11-Jul-2019	
70-5-0700-7420	002073			Electricity				-2.95
70-5-0700-7420	002073			Electricity				41.62
200141687867-	JUN/19 HYDRO - METER#24				354	26-Jun-2019	11-Jul-2019	
70-5-0700-7420	002073			Electricity				-2.36
70-5-0700-7420	002073			Electricity				33.37
200141690190-	JUN/19 HYDRO - METER#26				354	25-Jun-2019	11-Jul-2019	
70-5-0700-7420	002073			Electricity				-4.00
70-5-0700-7420	002073			Electricity				56.54
150365	ONTARIO CLEAN WATER AGENCY							
INV000114089	JUN/19 OPER&MTCE				354	30-Jun-2019	11-Jul-2019	
70-5-0700-6720	002071			OCWA Operating Contract				241,376.00
190185	SGS CANADA INC. ENVIRONMENTAL SERVICES							
11253581	WATER QUALITY STUDIES CORROSION-UWSS				354	27-Jun-2019	11-Jul-2019	
70-5-0700-7989	002075			Operational Programs & Studies				118.65
11253589	WATER QUALITY STUDIES CORROSION-LAKESHORE				354	27-Jun-2019	11-Jul-2019	
70-5-0700-7989	002075			Operational Programs & Studies				98.31
11253590	WATER QUALITY STUDIES CORROSION-KINGSVILLE				354	27-Jun-2019	11-Jul-2019	
70-5-0700-7989	002075			Operational Programs & Studies				98.31
11253616	WATER QUALITY STUDIES CORROSION-ESSEX				354	27-Jun-2019	11-Jul-2019	
70-5-0700-7989	002075			Operational Programs & Studies				98.31
11253617	WATER QUALITY STUDIES CORROSION-UWSS				354	27-Jun-2019	11-Jul-2019	
70-5-0700-7989	002075			Operational Programs & Studies				740.15
11253640	WATER QUALITY STUDIES CORROSION-LEAMINGTON				354	27-Jun-2019	11-Jul-2019	
70-5-0700-7989	002075			Operational Programs & Studies				196.62
190635	STANTEC CONSULTING LTD							
1395194	COTTAM BOOSTER STN-RESERVOIR GRADING-JUN14				354	28-Jun-2019	11-Jul-2019	
70-7-0700-8725	700030			Cottam Booster Station				729.80
190755	SUN LIFE ASSURANCE COMPANY OF CANADA							
JUL-19	JUL/19 UNION WATER LOAN 3724:1				354	01-Jul-2019	11-Jul-2019	
70-5-0700-6000	002020		006901	Debenture Principal				147,104.66
70-5-0700-6100	002010		006901	Debenture Interest				109,448.34
Department Totals :								504,406.86

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Vendor : 0011450 To PT00000170
Batch : All
Department : All

EFT Paid Date : 25-Jul-2019 **To** 25-Jul-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				
DEPARTMENT 0700 Union Water System								
050099 ENBRIDGE GAS INC								
1929770177678	0.0M3 GAS - COTTAM BOOSTER STATION				377	11-Jul-2019	25-Jul-2019	
70-5-0700-7410	002073			Gas				23.92
070100 GOLDR ASSOCIATES LTD								
1031221	C02 PH ADJUSTMENT SYSTEM				377	10-Jul-2019	25-Jul-2019	
70-7-0700-8745	700200			Treatment Plant				3,881.91
080250 HYDRO ONE NETWORKS INC								
200141677460-	JUN/19 HYDRO - RUTHVEN WTP				377	09-Jul-2019	25-Jul-2019	
70-5-0700-7420	002073			Electricity				80,461.93
200141680692-	JUN/19 HYDRO - LOW LIFT				377	09-Jul-2019	25-Jul-2019	
70-5-0700-7420	002073			Electricity				-4.91
70-5-0700-7420	002073			Electricity				42,279.55
200152134969-	JUN/19 HYDRO - METER#17				377	09-Jul-2019	25-Jul-2019	
70-5-0700-7420	002073			Electricity				-2.45
70-5-0700-7420	002073			Electricity				34.59
Department Totals :								126,674.54