

THE UNION WATER SUPPLY SYSTEM
JOINT BOARD OF MANAGEMENT
AGENDA
WEDNESDAY, APRIL 19, 2017
COMMENCING AT 9:00 AM
IN THE COMMUNITY ROOM - KINGSVILLE ARENA

(A) Call to Order:

(B) Disclosures of Pecuniary Interest:

(C) Adoption of Minutes:

1. Minutes of the Union Water Supply System Joint Board of Management held on February 15, 2017
Pages 3 - 7
2. Minutes of the meeting Special Meeting of the Union Water Supply System Joint Board of Management held, Thursday, March 9, 2017
Pages 8 - 11
3. Minutes of the Special Meeting of the Union Water Supply System Joint Board of Management held Tuesday, April 4, 2017
Pages 12 - 13

(D) Business Arising Out of the Minutes

(E) Items for Consideration:

1. UW/12/17 dated April 13, 2017 re: Status Update of the UWSS Operations & Maintenance Activities and Capital Works to April 13, 2017
Pages 14 - 15
2. UW/13/17 dated April 12, 2017 re: MOECC Drinking Water Inspection Report for the UWSS - January 2017 Inspection
Pages 16 - 17
3. UW/14/17 dated April 13, 2017 re: Payments from February 3 to April 13, 2017
Pages 18 - 28

(D) **New Business:**

(E) **Adjournment:**

(D) **Date of Next Meeting:** Wednesday, May 17, 2017, 9:00 am, Kingsville Community Room, Kingsville Arena

/kmj

THE UNION WATER SUPPLY SYSTEM
JOINT BOARD OF MANAGEMENT
MINUTES OF MEETING
HELD FEBRUARY 15, 2017 AT 9 AM
IN KINGSVILLE COMMUNITY ROOM - KINGSVILLE ARENA

Members Present: Deputy Mayor MacDonald (Chair); Councillors Hammond, Verbeke
- Leamington
Mayor Nelson Santos (Vice-Chair); Councillors Gaffan, Neufeld,
Patterson - Kingsville
Councillor Diemer - Lakeshore

Members Absent: Mayor Paterson, Councillor Dunn & Jacobs - Leamington
Mayor McDermott - Essex

Staff Present: Shannon Belleau - Leamington
Chris Nepszy, Andy Graf - Essex

OCWA Staff
Present: Dale Dillen, Ken Penney, Dave Jubenville

Call to Order: 9:00 am

Disclosures of Pecuniary Interest: none

Adoption of Board Minutes:

No. UW-11-17

Moved by: Councillor Patterson

Seconded by: Councillor Gaffan

That Minutes of the UWSS Joint Board of Management meeting of January 18, 2017 be received.

Carried

Business Arising Out of the Minutes:

There was none.

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Report UW/06/17 Re: Status Update of the UWSS Operations & Maintenance Activities and Capital Works to February 10, 2017, dated February 10, 2017

The Manager reviews his report with UWSS Board members. He notes the watermain break that occurred on February 9, 2017 at an old meter pit near the corner of Union Avenue and Road 2 East in Ruthven. He continues by stating that the meter pit is in poor condition and there had been discussion of perhaps abandoning the pit. However after discussions with OCWA staff and Town of Kingsville staff the Manager is suggesting that prices for rehabilitation be obtained so he can better determine the best course of action.

He informs members that OCWA staff have replaced valve and flow meters for filters #2 and #4. He explains to members that the valves were original to the plant and the task was difficult due to the tight working space.

Filter media replacement for Filters #5 and #7 should be completed within the next month. As well the new #1 Compressor has arrived.

The Town of Kingsville's inspection report has been received with a rating of 97.39%. The UWSS MOECC inspection started on January 26 with a new inspector looking at everything. The Manager notes that inspectors are changed approximately every three (3) years and each inspector has their own way of identifying any issues. The Manager will provide the latest UWSS inspection to Board members once received.

The Manager explains that flows are doing well this year, up over 2016.

No. UW-12-17

Moved by: Councillor Neufeld

Seconded by: Councillor Hammond

That report UW/06/17 dated February 10, 2017 re: Status Update of the UWSS Operations & Maintenance Activities and Capital Works to July 15, 2016 is received.

Carried (UW/20/16)

The Manager then hands the floor over the Dale Dillen, Manager for OCWA, to go through the presentation for Capital and Operational projects from 2016. Members of the Board are able to see each project which includes the following (pictures were provided for as many projects as possible):

- Electrical projects - such as meter replacements, lighting upgrades, security camera installs, zebra mussel control programming, fire prevention in the MCC Room and at the Low Lift, LWT pit panel and lighting, communication SOP updates, Rotork valve for clarifier #2, Low Lift Pump #2 soft start upgrade;
- Plant Improvements - such as Chlorine Building receives a new roof liner and painting, maintenance shop receives a concrete pad, new pole barn roof

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installed, chemical cleaning of Filter #5, new mini lab, window replacements, pole barn oil tank and containment, AWT receives pipe insulation, pipe painting was completed on the raw water lines (extension of life), and microstrainer decommissioning;

- Operational Improvements - such as guarding around pumps #6 and #7, new chlorine analyzers, zebra mussel control for Intake #2, upgrades to Powdered Activated Carbon (PAC) feed system, rebuild of High Lift Pump #3, rebuild of Low Lift Pump #3 and refurbish CBS pump #3, new actuator for raw water line #2, new turbidimeter replacement, pilot system flow monitoring device and repairs to Reservoir #2 (joint extension sealed);
- Miscellaneous work includes hatch repairs on intake #1 and solids removal.
- Distribution projects - such as new flow meters in VC9, VC26, VC16, #11, #19 and #22, meter at Cull and Heritage in Kingsville removed, valve on Graham Sideroad replaced, maps updated on valve series, valve markers installed, new access ladder installed in Meter #6, new lid and ladder installed in Meter #3 and new portable trailer-mounted backup generator.

The Board asks the OCWA Operations Manager to explain what type of disaster would be necessary to stop the Ruthven WTP from producing water. The OCWA Operations Manager explains that not being able to produce water would be the greatest concern and algae could be an issue, which is why the UWSS Water Quality Masterplan has been undertaken.

No. UW-13-17

Moved by: Councillor Patterson

Seconded by: Councillor Diemer

That the OCWA Presentation "2016 Year End Projects" is received.

Carried

Report UW/07/16 dated February 6, 2017 re: 2016 Annual Report under the Safe Drinking Act and Ontario Regulation 170/03

The Manager reviews his report with Board members. He notes that this report is a requirement and also that each of the four municipalities receive an individual report as well. This report identifies how the plant works and makes note of any capital expenditures throughout the year. This report also identifies any issues that have occurred throughout the previous year such as AWQIs.

The Board asks the Manager if the testing on pesticides is required to be completed in January or any time of year. They also question if there would be a difference in results if tested at a later date in the year, such as summer. The Manager refers to the OCWA

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Manager and he indicates that the pesticide testing could potentially be completed in the summer.

No. UW-14-17

Moved by: Councillor Verbeke

Seconded by: Councillor Hammond

That report UW/07/17 dated February 6, 2017 re: 2016 Annual Report under the Safe Drinking Water Act and Ontario Regulation 170/03 is received.

Carried (UW07/17)

Report UW/08/17 dated February 6, 2017 re: 2016 Summary Report for Municipalities under Regulation 170/03 made under the Safe Drinking Water Act

The Manager explains that this report is completed every year demonstrating the water that each of the four municipalities take and also provides the limits of water that the UWSS is allowed to take from the Lake.

This report also sets out all Adverse Water Quality Incidents (AWQI) and the Manager explains each one to members of the Board explaining the following:

- Union Water Supply System had one (1) AWQI in 2016
- Leamington had two (2) AWQIs in 2016
- Kingsville had three (3) AWQIs in 2016
- Essex had one (1) AWQI in 2016
- Lakeshore had no AWQIs in 2016

He also explains that the UWSS is well below the allowed limits in water taking for the 2016 year.

No. UW-15-17

Moved by: Councillor Neufeld

Seconded by: Councillor Diemer

That report UW/08/17 dated February 6, 2017 re: 2016 Summary Report for Municipalities under Regulation 170/03 made under the Safe Drinking Water Act is received.

Carried (UW/08/17)

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Report UW/09/17 dated February 10, 2017 re: Payments from January 13 to February 10, 2017

No. UW-16-17

Moved by: Councillor Verbeke

Seconded by: Councillor Gaffan

That report UW/09/17 dated February 10, 2017 re: Payments from January 13 to February 10, 2017 is received.

Carried (UW/09/17)

New Business

The Manager informs members of the potential dates for the Water Quality Masterplan (WQMP) workshop. They are as follows:

- March 7, 2017 at 8:30 at the County of Essex Building Room C
- March 9, 2017 at :30 at the Unico Building in Kingsville

After a few minutes of discussion it is determined that the March 9th date works best for the Board members. More information is to follow.

There is then a discussion of the potential cancellation of the March Board meeting due to missing members and due to the fact that the WQMP meeting is at the beginning of March. After a brief discussion it is determined that the UWSS March 15th Board meeting is cancelled.

Adjournment

No. UW-17-17

Moved by: Councillor Hammond

Seconded by: Mayor Santos

That the meeting adjourn at 10:00 am

Carried

THE UNION WATER SUPPLY SYSTEM
JOINT BOARD OF MANAGEMENT
MINUTES OF SPECIAL MEETING
HELD MARCH 9, 2017 AT 9:30 AM
IN KINGSVILLE COMMUNITY ROOM - UNICO BUILDING

Members Present: Deputy Mayor MacDonald (Chair); Councillors Dunn, Verbeke - Leamington
Mayor Nelson Santos (Vice-Chair); Councillors Gaffan, Neufeld, Patterson - Kingsville
Mayor McDermott - Essex
Councillor Diemer - Lakeshore

Members Absent: Mayor Paterson, Councillors Hammond, Jacobs - Leamington

Staff Present: Andy Graf - Essex
Andrew Plancke, Shaun Martinho, Kevin Girard - Kingsville
Shannon Belleau - Leamington

OCWA Staff Present: Dale Dillen

Associated Engineering Staff Vincent LaPlante, Elia Edwards

Call to Order: 9:36 am

Disclosures of Pecuniary Interest: none

Reports and Correspondence

Report UW/10/17 dated March 6, 2017 re: UWSS Water Quality Masterplan (WQMP) Study - Presentation of Results to the UWSS Board

The Manager reminds members of the board that the purpose of the meeting is to present the results of the Water Quality Masterplan (WQMP) Study that includes a complete review of the treatment process including coagulation, disinfection and all aspects of treated water. He indicates that project team members from the retained consultant, Associated Engineering (AE), will be presenting the report through a Powerpoint™ presentation. The Manager also indicates that he is not looking for any type of endorsement or approval at this time but rather the information is being presented to the Board for information purposes in regards to future capital treatment works planning. The Manager then introduces Vincent Laplante and Elia Edwards from AE.

Elia takes the lead on the presentation. He notes that the treatment plant master plan work that UWSS and OCWA operations staff are undertaking is great for the Board as a

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whole as it provides a better understanding of the assets and how to plan for the future. He confirms that other drinking water facilities, mostly in larger municipalities, are doing the same across Ontario. He indicates that there are three (3) technical memos to get through, but indicates that this is an open format and questions are welcome.

Technical Memo #1

Elia presents members of the Board with a summary of current and historical water quality data and identifies existing and future concerns, such as microbiological and other toxins. He provides the current rating for the UWSS facilities and shows a chart indicating a gap in the treatment plant's Clarification process. He notes that this seems to be the weakest part of the treatment process and suggests that there should be a focus area for investment/ upgrade.

The other areas of concern are microbial activity and the ability to treat for multiple types of microorganisms in the water and also states that the UWSS is below the guidelines for Geosmin, which is an indicator for taste and odor issues. He believes that continued monitoring is required for all processes. He also notes that the Ontario requirements for microbial treatment are lower than the USA EPA guidelines and Health Canada Guidelines and suggests UWSS look to those to guide future improvements for microbial disinfection.

There is a brief discussion regarding the level of barrier required in the industry regarding cryptosporidium. He notes that Ontario is only 2-log, while Canada is 3-log and USA is in the range of 2-5.5 log in the barrier approach. Elia notes that this project and the discussions today demonstrate to the MOE that the UWSS is taking reasonable steps to ensure the safety of our drinking water.

Elia also notes that UWSS is not operating at its rated capacity and whether that will change in the future is to be determined; the lower existing demand for water provides a buffer for the treatment capacity, which is good. He also indicates that future changes in the source water could potentially affect the way UWSS approaches treatment.

Technical Memo #2

Elia indicates that climate change could potentially affect the source water in the future but the actual range of such impact is currently unknown. He asks the question: Is it better to pay for changes to the system up front before climate changes affects are too great or is it better to wait until it is closer to the need? He asks the Board to consider this dilemma.

He then reviews the threats to water quality, the potential threats and the impacts on UWSS. Should additional funding to help source water be received from Federal, Provincial or local Government? He notes that the USA has made substantial cuts to their Great Lakes funding and yet millions of people share the source water. Therefore, how do we go forward to manage these risks?

The Manager reminds the Board members that UWSS has been involved with many source water/ algae monitoring programs and studies over the last several years to evaluate any of these risks to UWSS source water. The Board asks the Manager if letters

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should be drafted to our neighbouring communities, including those in the USA, regarding the protection of our source water.

The Board then asks the Manager if funding should be set aside for improved lake intakes, such a deeper and further out into Lake Erie. The Manager indicates that currently UWSS has redundancy as the entire treatment plant can be fed on one intake if the other one should fail.

AE then explains the preliminary evaluation of treatment alternatives that was conducted as part of Technical Memo#2 in regards to Clarification, disinfection, and Taste & Odor/ Emerging Contaminants. They review water quality and treatment, operational considerations, environmental, public impact, design consideration, health and safety and cost. They then rated each issue for the UWSS and ranked them accordingly to determine a risk factor and which areas were considered weaker vs. stronger. The engineers ensured the Board members that this procedure was all done in conjunction with members of UWSS and OCWA staff.

Technical Memo #3

Elia indicates that if UWSS is to move forward with any new initiatives at the treatment plant all aspects must be looked at such as the site considerations, cost and size of footprint. Taste and odour will be continually monitored and they recommend getting a plan in place for to increase disinfection capabilities for cryptosporidium sooner rather than later. The other options could potentially be pushed out over ten (10) years.

The municipal staff present ask questions regarding pharmaceuticals in the water, as currently there is no plan in place to address this trending issue. The Manager states that there is no program in place for this particular issue, but future monitoring will be used to assess the treatment requirements for pharmaceuticals.

AE recommends some pre-treatment upgrades and pilot scale testing to better understand the raw water. They would like to determine if sediment Lake Erie water likes to float or sink, this data will then determine if UWSS should move over to dissolved air filtration (DAF) vs the conventional method currently in place.

There is a brief discussion regarding Ultraviolet (UV) technology and if this particular disinfection process would ever be beneficial at the Ruthven WTP. UV is being proposed for additional treatment of drinking water after it is filtered. This UV treatment would increase the UWSS' disinfection capacity from 2-log to 3-log for cryptosporidium. UV treatment equipment would be best placed within the reservoir for cost effective reasons.

The presentation then moves over to the possible costs involved in implementing any possible changes to the WTP. It should be noted that they present the material with a ten (10) year horizon.

There are some general discussions following the presentation regarding the financial aspect of the WQMP. The Manager notes that some of the ideas presented have been captured in his six (6) year capital plan, while others are beyond that specific horizon.

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There is a concern about possibly making a big switch regarding any one aspect of the water treatment process. The engineers explain that any changes would be completed in controlled states. There is a brief discussion regarding the current time line to complete some of the pilot and bench scale testing.

No. UW-18-17

Moved by: Councillor Patterson

Seconded by: Councillor Gaffan

That the UWSS Water Quality Masterplan UWSS Board Workshop presentation is received for information.

Carried

Adjournment:

No. UW-19-17

Moved by: Councillor Verbeke

Seconded by: Mayor Santos

That the meeting adjourn at 11:58 am

Carried

Date of Next Meeting: April 4, 2017, 9:00 am at the Kingsville Community Room of the Kingsville Arena

/kmj

THE UNION WATER SUPPLY SYSTEM
JOINT BOARD OF MANAGEMENT
MINUTES OF SPECIAL MEETING
HELD APRIL 4, 2017 AT 10:00 AM
IN KINGSVILLE COMMUNITY ROOM - KINGSVILLE ARENA

Members Present: Deputy Mayor MacDonald (Chair); Mayor Paterson, Councillors Hammond, Jacobs, Verbeke - Leamington
Councillors Gaffan, Neufeld, Patterson - Kingsville
Mayor McDermott - Essex

Members Absent: Councillor Dunn - Leamington
Mayor Nelson Santos (Vice-Chair) - Kingsville
Councillor Diemer - Lakeshore

Staff Present: Sandra Zwiers, Ryan McLeod - Kingsville
Laura Rauch - Leamington

Audit Staff
Present: Lindsay latonna

Call to Order: 10:04 am

Disclosures of Pecuniary Interest: none

Reports and Correspondence

Report UW/10/17 dated March 21, 2017 re: UWSS Financial Report

The Manager begins by introducing the new Director of Finance for the Municipality of Leamington, Laura Rauch, and further explains that the UWSS auditor, Lindsay latonna, is also present for any questions.

Ms. Rauch then takes over and briefly introduces herself to members of the board. She then explains that the financial report for UWSS is prepared internally by the financial team at the Municipality of Leamington and audited by Ms. latonna.

She notes that revenue has increased slightly over previous years, most likely due to the hotter, drier summer experienced in 2016 and the increase in greenhouse production. Investment income is noted as exceeding budgetary expectations. This is in part due to the transfer from One Fund over to the WFCU investments.

Ms. Rauch moves on to the operating side of the report and explains that electricity prices exceeded the 2016 budget as a result of un-budgeted price increases in electrical rates; repairs and maintenance expenses in 2016 exceeded the budgetary numbers by

\$186,000 which is related to work completed that is not capital, such as the lagoon cleanout and drain and watermain maintenance, but was budgeted as capital.

Ms. Rauch notes that everything within the UWSS finances appears to be in order and the auditor has found no inconsistencies.

Councillor Patterson notes that Kingsville's financial team was also present in the audience and asks if Leamington required any extra assistance from the Kingsville staff in preparing the report or with the ongoing workload. Ms. Rauch indicates that there were no issues in handling the needs of UWSS through the Leamington staff, but thanks Kingsville for their offer.

No. UW-20-17

Moved by: Mayor Paterson

Seconded by: Councillor Patterson

That the 2016 Financial Report for the Union Water Supply System Joint Board of Management be approved.

Carried

New Business

The Board asks the Manager if he could provide some information regarding the greenhouse industry versus the capacity at the WTP. The Manager indicates that he will and also that the UWSS is working to try and streamline the approval process to ensure that capacity is only be approved as needed and not more than required by the greenhouse.

Councillor Hammond notes that Leamington is making changes to their water meter system with the hopes of shifting peak loads. The Manager indicates that he is aware of Leamington's switch to the new meters.

Adjournment:

No. UW-21-17

Moved by: Councillor Jacobs

Seconded by: Councillor Gaffan

That the meeting adjourn at 10:16 am

Carried

Date of Next Meeting: April 19, 2017, 9:00 am at the Kingsville Community Room of the Kingsville Arena

UW/12/17

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

From: Rodney Bouchard, Union Water Manager

Date: April 13, 2017

Re: Status Update of UWSS Operations & Maintenance Activities and Capital Works to April 13, 2017



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. Filters #5 and #7 are scheduled for media replacement within the next few weeks. This work will be completed by Continental Carbon Group (CCG) of Stoney Creek, ON. CCG was also the supplier and installer of filter media for Filters #1-4. Upon removal of existing filter media by CCG, UWSS and OCWA maintenance staff will inspect the filter underdrains for damage. It is anticipated that the filter media replacement will be completed by mid-May 2017.
3. Compliance: The UWSS Final Inspection Report was issued by the Ministry of Environment and Climate Change (MOECC) on April 6, 2017. The UWSS was given an inspection rating of 95.01%. Details of the inspection are provided in report UW/13/17.
4. An inspection of Reservoir #1 has been scheduled for the month of May 2017. The inspection will be conducted while the reservoir is in operation. Inspectors will look for evidence of leakage, corrosion, and sediment accumulation.
5. The pilot study for the dissolved air flotation (DAF) pre-treatment system is currently under way. UWSS retained Associated Engineering (AE) to lead the pilot study. The DAF pilot system equipment, supplied by Roberts Filter Group of Media, Pennsylvania, arrived at the plant on April 10th, 2017. The DAF pilot system is slated to run for 3-4 weeks depending on conditions and results.

Re: Status Update of UWSS Operations & Maintenance Activities and Capital Works
to April 13, 2017

6. An additional turbidimeter has been purchased and installed to measure turbidity at intake #1. This will provide more accurate turbidity measurements while pump well #2 is not in use.

Comparative Flows for 2013 through 2017 in Millions of Imperial Gallons (for the period 1 January to April 12, 2017)

	2013	2014	2015	2016	2017
Flow to Date (MG)	668.29	748.96	684.46	664.86	690.85
Max Day (MGD)	8.89	10.42	9.36	9.74	10.51
Min Day (MGD)	4.65	4.19	3.79	4.29	4.56
Average Day (MGD)	6.55	7.34	6.71	6.45	6.77
No of Days	102	102	102	103	102

Flows to date are up 25.99 MIG or 3.90% from last year. The 2017 flows to date are up 0.11% 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

rb/kmj

Filename: t:\union wtr\reports to board\2017\uw12-17 operations report for april 2017.docx

UW/13/17

To: Chair and Members of the Union Water Supply System (UWSS) Management Board

From: Rodney Bouchard, UWSS Manager

Date: April 12, 2017

Re: MOECC Drinking Water Inspection Report for the UWSS - January 26, 2017 Inspection



RECOMMENDATION

That the Union Water Supply System (UWSS) Board receives this report for information.

BACKGROUND

The UWSS is subject to annual inspections by the Ontario Ministry of Environment and Climate Change (MOECC) under the Safe Drinking Water Act, 2002 (SDWA) and its associated regulations.

The UWSS was inspected on January 26, 2017 and the final report for that inspection was issued by the MOECC on April 6, 2017. The previous inspection was conducted on January 14, 2016.

DISCUSSION:

The April 6, 2017 inspection report identifies one (1) item under the report section titled ***Non-Compliance with Regulatory Requirements and Actions Required***. This item was identified by the inspector as an item of non-compliance with the SDWA for the inspection period and provides the required actions to be undertaken by UWSS. Details regarding the non-compliance are provided on Pages 15 of the Final Inspection Report (attached).

The inspection report also includes a section titled ***Summary of Recommendations and Best Practice Issues***, found on pages 16 of the Final Inspection Report. No recommended actions or best practices issue were identified in the Final Inspection Report.

It should be noted that the identified non-compliance was addressed appropriately at the time of occurrence. All necessary follow up required actions will be completed and reported to the MOECC drinking water inspector prior to the imposed May 1st, 2017 deadline.

As required by the regulations under the SDWA, the municipal water systems which receive drinking water from the UWSS have been provided with copies of the inspection

April 12, 2017 - UW/13/17

Re: MOECC Drinking Water Inspection Report for the UWSS-January 26, 2017
Inspection

report for the January 26, 2017 inspection. Further, the inspection has been posted on the UWSS website www.unionwater.ca.

CONCLUSION

This report is being provided to the Board for information purposes.

Respectfully submitted,



Rodney Bouchard, General Manager
Union Water Supply System Joint Board of Management
rb/kmj

Filename: t:\union wtr\reports to board\2017\uw13-17 moecc drinking water inspection report for the uwss for the january 26, 2017 inspection.docx

UW/14/17

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

From: Rodney Bouchard, Union Water Manager

Date: April 13, 2017

Re: Payments for the UWSS from February to April 13, 2017



Aim:

To provide the Board with a copy of payments made by the Union Water Supply System from February to April 13, 2017.

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\2017\uw14-17 payments february to april 13, 2017.docx



Vendor : 001410 To PT00000115
 Batch : All
 Department : All

Cheque Print Date : 09-Feb-2017 To 10-Feb-2017
 Bank : 07 To 08
 Class : All

Vendor Invoice	Vendor Name Description	Batch	Inv Date	Inv Due Date	Amount
G.L. Account	CC1 CC2 CC3 GL Account Name				
DEPARTMENT 0700 Union Water System					
050003 E.L.K. ENERGY INC					
40010915-DEC	1316KWH - ESSEX WATER TOWER	827	31-Dec-2016	09-Feb-2017	
70-5-0700-7420	002073 Electricity				210.91
40047150-DEC	252KWH - METER#9	827	31-Dec-2016	09-Feb-2017	
70-5-0700-7420	002073 Electricity				56.51
90006300-DEC	22831KWH - COTTAM BOOSTER STATION	827	31-Dec-2016	09-Feb-2017	
70-5-0700-7420	002073 Electricity				4,562.39
050195 ESSEX POWERLINES CORPORATION					
220651-DEC16	31KWH - METER#4	827	31-Dec-2016	09-Feb-2017	
70-5-0700-7420	002073 Electricity				46.04
70-5-0700-7420	002073 Electricity				-0.32
080250 HYDRO ONE NETWORKS INC					
200141682009	DEC/16 HYDRO - ALBUNA WATER TOWER	827	31-Dec-2016	09-Feb-2017	
70-5-0700-7420	002073 Electricity				2,532.87
70-5-0700-7420	002073 Electricity				-26.96
200141683120	DEC/16 HYDRO - METER#5	827	31-Dec-2016	09-Feb-2017	
70-5-0700-7420	002073 Electricity				53.35
70-5-0700-7420	002073 Electricity				-0.55
150365 ONTARIO CLEAN WATER AGENCY					
INV000092029	2016 YE RECONCIL - CAPTIAL	827	31-Dec-2016	09-Feb-2017	
70-5-0700-6720	002071 OCWA Operating Contract				11,147.87
INV92029	2016 YE RECONCIL - CHEMICAL	827	31-Dec-2016	09-Feb-2017	
70-5-0700-6720	002071 OCWA Operating Contract				3,919.26
Department Totals :					22,501.37



Vendor : 001410 To PT00000115
 Batch : All
 Department : All

Cheque Print Date : 16-Feb-2017 To 16-Feb-2017
 Bank : 07 To 08
 Class : All

Vendor Invoice	Vendor Name Description	Batch	Inv Date	Inv Due Date	Amount
G.L. Account	CC1 CC2 CC3 GL Account Name				
DEPARTMENT 0700 Union Water System					
020120 BELL MOBILITY CELLULAR					
514877178-FEI MONTHLY CELL CHARGES		77	01-Feb-2017	16-Feb-2017	
70-5-0700-7110	002070 002083 Telecommunications Usage				40.30
030515 CUETS FINANCIAL					
AMCTO - 3507 MAP UNIT 2 REGIST - K.JOHNSON		76	11-Jan-2017	16-Feb-2017	
70-5-0700-7040	002070 002003 Training				395.50
APGO-2017 19 2017 APGO DUES		76	03-Jan-2017	16-Feb-2017	
70-5-0700-7020	002070 Dues, Memberships and Subscriptions				474.60
LUCKY CHOP- LUNCH - OCWA OPER. MGR.		76	09-Jan-2017	16-Feb-2017	
70-5-0700-7052	002070 Meeting Expenses				30.40
70-5-0700-7052	002070 Meeting Expenses				5.00
STAPLES-JAN COMPUTER DISPLAY, HDMI CABLES		76	16-Jan-2017	16-Feb-2017	
70-5-0700-7250	002070 002112 Tech Hardware Purchases (non TCA)				385.87
VERNONS-JAN BUSINESS LUNCH - JAN27		76	27-Jan-2017	16-Feb-2017	
70-5-0700-7052	002070 Meeting Expenses				38.42
70-5-0700-7052	002070 Meeting Expenses				6.92
080025 HACH SALES & SERVICE CANADA LP					
136696 TURBIDIMETER		76	25-Jan-2017	16-Feb-2017	
70-7-0700-8735	700150 Low Lift Station				6,274.33
080250 HYDRO ONE NETWORKS INC					
200141677460 JAN/17 HYDRO - RUTHVEN WTP		76	06-Feb-2017	16-Feb-2017	
70-5-0700-7420	002073 Electricity				58,945.44
200141680692 JAN17 HYDRO - LOW LIFT		76	06-Feb-2017	16-Feb-2017	
70-5-0700-7420	002073 Electricity				24,538.16
110057 KENT COMPRESSOR INC					
024682 ROTARY COMPRESSOR-HIGH LIFT REPLACEMENT#1		76	01-Feb-2017	16-Feb-2017	
70-7-0700-8745	700070 Treatment Plant				12,995.00
130838 MUNICIPALITY OF LEAMINGTON					
530-17700 FEE LEAM. WATER TOWER TAXES		76	12-Jan-2017	16-Feb-2017	
70-5-0700-6750	002072 Property Tax				729.15
150416 ONTARIO MUNICIPAL WATER ASSOCIATION					
2017-M-001 - L 2017 OMWA MEMBERSHIP		76	08-Feb-2017	16-Feb-2017	
70-5-0700-7020	002070 Dues, Memberships and Subscriptions				694.69
180325 RICOH CANADA INC					
SCO91422099 JAN/17 COPIER CONTRACT		76	31-Jan-2017	16-Feb-2017	
70-5-0700-7010	002070 002060 Office Supplies				98.00
190755 SUN LIFE ASSURANCE COMPANY OF CANADA					
FEB-17 FEB/17 UNION WATER LOAN 3724:1		76	01-Feb-2017	16-Feb-2017	
70-5-0700-6000	002020 006901 Debenture Principal				9,889.70
70-5-0700-6100	002010 006901 Debenture Interest				127,792.34
Department Totals :					243,333.82



Vendor : 001410 To PT00000112
 Batch : All
 Department : All

Cheque Print Date : 23-Feb-2017 To 23-Feb-2017
 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									
080250 HYDRO ONE NETWORKS INC									
200208899066	JAN/17	HYDRO - METER#16				90 13-Feb-2017	23-Feb-2017		
70-5-0700-7420		002073			Electricity			210.96	
70-5-0700-7420		002073			Electricity			-14.94	
210120 UNION GAS LTD									
JAN17 177-678	1-1399.879	M3 GAS - COTTAM BOOSTER STN				90 09-Feb-2017	23-Feb-2017		
70-5-0700-7410		002073			Gas			456.68	
Department Totals :									652.70



Vendor : 001410 To PT00000115
 Batch : All
 Department : All

Cheque Print Date : 24-Feb-2017 To 02-Mar-2017
 Bank : 07 To 08
 Class : All

Vendor Invoice	Vendor Name Description	Batch	Inv Date	Inv Due Date	Amount
G.L. Account	CC1 CC2 CC3 GL Account Name				
DEPARTMENT 0700 Union Water System					
050195 ESSEX POWERLINES CORPORATION					
220651-JAN17	1-44KWH - METER#4	104	20-Feb-2017	02-Mar-2017	
70-5-0700-7420	002073 Electricity				46.90
70-5-0700-7420	002073 Electricity				-3.32
70-5-0700-7420	002073 Electricity				0.17
994271 ESSEX REGION CHILDREN'S WATER FESTIVAL					
2017	DONATION TO ERCWF	104	23-Feb-2017	02-Mar-2017	
70-5-0700-7130	002070 Advertising & Promotion				3,000.00
080250 HYDRO ONE NETWORKS INC					
200141683726	JAN/17 HYDRO - METER#15	104	23-Feb-2017	02-Mar-2017	
70-5-0700-7420	002073 Electricity				33.30
70-5-0700-7420	002073 Electricity				-2.21
200141690190	JAN/17 HYDRO - METER#26	104	24-Feb-2017	02-Mar-2017	
70-5-0700-7420	002073 Electricity				97.09
70-5-0700-7420	002073 Electricity				-6.66
160610 PUROLATOR INC					
433868564	EQUIPMENT FOR FILTERS	104	17-Feb-2017	02-Mar-2017	
70-5-0700-7010	002070 002062 Office Supplies				7.43
210120 UNION GAS LTD					
JAN-FEB17 20	1 - 18578.932M3 GAS - RUTHVEN WTP	104	20-Feb-2017	02-Mar-2017	
70-5-0700-7410	002073 Gas				5,922.08
JAN-FEB17 21	1 - 2259.180M3 GAS - LOW LIFT	104	23-Feb-2017	02-Mar-2017	
70-5-0700-7410	002073 Gas				721.18
Department Totals :					9,815.96



Vendor : 001410 To PT00000115
 Batch : All
 Department : All

Cheque Print Date : 06-Mar-2017 To 10-Mar-2017
 Bank : 07 To 08
 Class : All

Vendor Invoice	Vendor Name Description	Batch	Inv Date	Inv Due Date	Amount
G.L. Account	CC1 CC2 CC3 GL Account Name				
DEPARTMENT 0700 Union Water System					
010103 ASSOCIATED ENGINEERING (ONT) LTD					
522247	WATER QUALITY MASTERPLAN - FEB10	112	24-Feb-2017	09-Mar-2017	
70-5-0700-7989	002075 Operational Programs & Studies				5,330.95
020120 BELL MOBILITY CELLULAR					
514877178-MA	MONTHLY CELL CHARGES	86	01-Mar-2017	09-Mar-2017	
70-5-0700-7110	002070 002083 Telecommunications Usage				41.81
030215 CANADIAN WATER AND WASTEWATER ASSOCIATION					
1963	CWWA 2017 MEMBERSHIP	112	03-Jan-2017	09-Mar-2017	
70-5-0700-7020	002070 Dues, Memberships and Subscriptions				1,737.94
050003 E.L.K. ENERGY INC					
40010915-JAN	1552KWH - ESSEX WATER TOWER	112	01-Mar-2017	09-Mar-2017	
70-5-0700-7420	002073 Electricity				300.27
70-5-0700-7420	002073 Electricity				-21.26
40047150-JAN	321KWH - METER#9	112	01-Mar-2017	09-Mar-2017	
70-5-0700-7420	002073 Electricity				77.11
70-5-0700-7420	002073 Electricity				-5.46
90006300-JAN	13750KWH - COTTAM BOOSTER STATION	112	03-Jan-2017	09-Mar-2017	
70-5-0700-7420	002073 Electricity				2,610.36
050020 ECODYNE LIMITED					
122247	STRAINERS&T-BOLTS FOR FILTERS 5-8	112	22-Feb-2017	09-Mar-2017	
70-7-0700-8730	700015 Filters				791.00
70-7-0700-8730	700017 Filters				791.00
70-7-0700-8730	700016 Filters				437.87
70-7-0700-8730	700018 Filters				437.88
080025 HACH SALES & SERVICE CANADA LP					
138367	4 - TURBIDMETERS - FILTER6,7&8	112	22-Feb-2017	09-Mar-2017	
70-7-0700-8730	700016 Filters				10,038.31
70-7-0700-8730	700017 Filters				5,016.15
70-7-0700-8730	700018 Filters				5,016.15
080250 HYDRO ONE NETWORKS INC					
200141680894	JAN/17 HYDRO - LEAM. WATER TOWER	112	28-Feb-2017	09-Mar-2017	
70-5-0700-7420	002073 Electricity				466.13
70-5-0700-7420	002073 Electricity				-33.01
200141681706	JAN/17 HYDRO - METER#2	112	27-Feb-2017	09-Mar-2017	
70-5-0700-7420	002073 Electricity				51.18
70-5-0700-7420	002073 Electricity				-3.62
200141682009	JAN/17 HYDRO - ALBUNA WATER TOWER	112	01-Mar-2017	09-Mar-2017	
70-5-0700-7420	002073 Electricity				1,895.86
70-5-0700-7420	002073 Electricity				-134.22
200141683019	JAN/17 HYDRO - METER#3	112	28-Feb-2017	09-Mar-2017	
70-5-0700-7420	002073 Electricity				51.42
70-5-0700-7420	002073 Electricity				-3.64
200141683120	JAN/17 HYDRO - METER#5	112	01-Mar-2017	09-Mar-2017	
70-5-0700-7420	002073 Electricity				46.87
70-5-0700-7420	002073 Electricity				-3.32
200141683423	JAN/17 HYDRO - METER#6	112	28-Feb-2017	09-Mar-2017	
70-5-0700-7420	002073 Electricity				45.55
70-5-0700-7420	002073 Electricity				-3.22
200141683524	JAN/17 HYDRO - METER#8	112	27-Feb-2017	09-Mar-2017	
70-5-0700-7420	002073 Electricity				43.64



Vendor : 001410 To PT00000115
 Batch : All
 Department : All

Cheque Print Date : 06-Mar-2017 To 10-Mar-2017
 Bank : 07 To 08
 Class : All

Vendor Invoice	Vendor Name Description	Batch	Inv Date	Inv Due Date	Amount
G.L. Account	CC1 CC2 CC3 GL Account Name				
DEPARTMENT 0700 Union Water System					
70-5-0700-7420	002073 Electricity				-3.09
200141687362	JAN/17 HYDRO - METER#22	112	27-Feb-2017	09-Mar-2017	
70-5-0700-7420	002073 Electricity				58.44
70-5-0700-7420	002073 Electricity				-4.14
200141687766	JAN/17 HYDRO - METER#29	112	27-Feb-2017	09-Mar-2017	
70-5-0700-7420	002073 Electricity				38.68
70-5-0700-7420	002073 Electricity				-2.74
200141687867	JAN/17 HYDRO - METER#24	112	27-Feb-2017	09-Mar-2017	
70-5-0700-7420	002073 Electricity				33.22
70-5-0700-7420	002073 Electricity				-2.35
130360 METCON SALES & ENGINEERING LTD					
4000464	FILTERS FOR 5-8	112	23-Feb-2017	09-Mar-2017	
70-7-0700-8730	700015 Filters				5,064.66
70-7-0700-8730	700016 Filters				5,064.66
70-7-0700-8730	700017 Filters				5,064.66
70-7-0700-8730	700018 Filters				5,064.66
150365 ONTARIO CLEAN WATER AGENCY					
INV000092764	FEB/17 OPER&MTCE	112	28-Feb-2017	09-Mar-2017	
70-5-0700-6720	002071 OCWA Operating Contract				223,405.71
180325 RICOH CANADA INC					
SCO91455357	COPIES - JAN18-FEB28	112	28-Feb-2017	09-Mar-2017	
70-5-0700-7010	002070 002060 Office Supplies				94.52
230685 WIRED SOLUTIONS					
13556	WEBSITE REDESIGN	112	27-Feb-2017	09-Mar-2017	
70-5-0700-7270	002070 002120 Software Purchases				3,107.50
230710 WOLSELEY CANADA INC					
5213202	REPAIR CLAMP - WM BREAK 2ND CONC&CTY RD 45	112	16-Feb-2017	09-Mar-2017	
70-7-0700-8750	002202 Watermains				780.27
Department Totals :					282,784.36



Vendor : 001410 To PT00000115
Batch : All
Department : All

Cheque Print Date : 13-Mar-2017 **To** 16-Mar-2017
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								
030410 COLASANTI'S RESTAURANT								
E04915	UWSS SPECIAL MTG - WQMP					131 09-Mar-2017	16-Mar-2017	
70-5-0700-7052	002070				Meeting Expenses			61.01
70-5-0700-7052	002070				Meeting Expenses			13.00
120260 LEAMINGTON GLASS LTD								
20026188	GENERATOR ROOM A - WINDOWS					131 23-Feb-2017	16-Mar-2017	
70-7-0700-8745	700020				Treatment Plant			4,228.46
20026189	MICROSTRAINER ROOM - WINDOWS					131 23-Feb-2017	16-Mar-2017	
70-7-0700-8745	700020				Treatment Plant			12,843.70
20026190	WEST WALL FILTER ROOM - WINDOWS					131 23-Feb-2017	16-Mar-2017	
70-7-0700-8745	700020				Treatment Plant			6,802.00
20026191	CAULKING EAST WALLS & PANELS					131 23-Feb-2017	16-Mar-2017	
70-7-0700-8745	700020				Treatment Plant			2,790.14
190185 SGS CANADA INC. ENVIRONMENTAL SERVICES								
11038942	WATER QUALITY STUDIES - CORROSION MONITORING					131 27-Feb-2017	16-Mar-2017	
70-5-0700-7989	002075				Operational Programs & Studies			1,012.48
11038944	WATER QUALITY STUDIES - CORROSION MONITORING					131 27-Feb-2017	16-Mar-2017	
70-5-0700-7989	002075				Operational Programs & Studies			73.45
11038970	WATER QUALITY STUDIES - CORROSION MONITORING					131 27-Feb-2017	16-Mar-2017	
70-5-0700-7989	002075				Operational Programs & Studies			73.45
11038971	WATER QUALITY STUDIES - CORROSION MONITORING					131 27-Feb-2017	16-Mar-2017	
70-5-0700-7989	002075				Operational Programs & Studies			73.45
11038975	WATER QUALITY STUDIES CORROSION MONITORING					131 27-Feb-2017	16-Mar-2017	
70-5-0700-7989	002075				Operational Programs & Studies			179.67
190755 SUN LIFE ASSURANCE COMPANY OF CANADA								
MAR-17	MAR/17 UNION WATER LOAN 3724:1					131 13-Mar-2017	16-Mar-2017	
70-5-0700-6000	002020	006901			Debenture Principal			32,923.61
70-5-0700-6100	002010	006901			Debenture Interest			127,705.43
Department Totals :								188,779.85



Vendor : 001410 To PT00000115
 Batch : All
 Department : All

Cheque Print Date : 23-Mar-2017 To 23-Mar-2017
 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								
030256 CARMEN'S CATERING SERVICE INC								
5220	WRAPS, SALAD - SPECIAL MTG - WQMP					138 09-Mar-2017	23-Mar-2017	
70-5-0700-7052	002070			Meeting Expenses				192.10
080250 HYDRO ONE NETWORKS INC								
200141677460	FEB/17 HYDRO - RUTHVEN WATER TREATMENT					138 08-Mar-2017	23-Mar-2017	
70-5-0700-7420	002073			Electricity				43,388.17
200141680692	FEB/17 HYDRO - LOW LIFT					138 08-Mar-2017	23-Mar-2017	
70-5-0700-7420	002073			Electricity				17,888.68
70-5-0700-7420	002073			Electricity				-5.50
200152134969	FEB/17 HYDRO - METER#17					138 08-Mar-2017	23-Mar-2017	
70-5-0700-7420	002073			Electricity				40.60
70-5-0700-7420	002073			Electricity				-2.87
200208899066	FEB/17 HYDRO - METER#16					138 15-Mar-2017	23-Mar-2017	
70-5-0700-7420	002073			Electricity				179.22
70-5-0700-7420	002073			Electricity				-12.69
210120 UNION GAS LTD								
FEB-MAR17 17 2-1486.810M3	GAS - COTTAM BOOSTER STN					138 13-Mar-2017	23-Mar-2017	
70-5-0700-7410	002073			Gas				483.43
Department Totals :								62,151.14



Vendor : 001410 To PT00000115

Batch : All

Department : All

Cheque Print Date : 29-Mar-2017 To 30-Mar-2017

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									
050195 ESSEX POWERLINES CORPORATION									
220651-FEB17	2-33KWH - METER#4					158 23-Mar-2017	30-Mar-2017		
70-5-0700-7420	002073				Electricity			46.28	
70-5-0700-7420	002073				Electricity			-3.28	
080250 HYDRO ONE NETWORKS INC									
200141683726	FEB/17 HYDRO - METER#15					158 24-Mar-2017	30-Mar-2017		
70-5-0700-7420	002073				Electricity			37.97	
70-5-0700-7420	002073				Electricity			-2.69	
210120 UNION GAS LTD									
FEB-MAR17 20	20744.920M3 GAS - RUTHVEN WTP					158 22-Mar-2017	30-Mar-2017		
70-5-0700-7410	002073				Gas			6,598.72	
FEB-MAR17 21	1691.562M3 GAS - LOW LIFT					158 24-Mar-2017	30-Mar-2017		
70-5-0700-7410	002073				Gas			546.46	
Department Totals :									7,223.46



Vendor : 001410 To PT00000115

Batch : All

Department : All

Cheque Print Date : 10-Apr-2017 To 12-Apr-2017

Bank : 07 To 08

Class : All

Vendor Invoice	Vendor Name Description	Batch	Inv Date	Inv Due Date	Amount
G.L. Account	CC1 CC2 CC3 GL Account Name				
DEPARTMENT 0700	Union Water System				
010103 ASSOCIATED ENGINEERING (ONT) LTD					
522409	WATER QUALITY MASTERPLAN - MAR10	196	28-Mar-2017	12-Apr-2017	
70-5-0700-7989	002075 Operational Programs & Studies				6,354.56
200348 CORPORATION OF THE TOWN OF KINGSVILLE					
W17-0002	WATERMAIN BREAK - 850 CR 34E	196	28-Mar-2017	12-Apr-2017	
70-7-0700-8750	002202 Watermains				5,903.47
030515 CUETS FINANCIAL					
BEACH HOUSI	SCADA PROJECT LUNCH MEETING	196	10-Mar-2017	12-Apr-2017	
70-5-0700-7052	002070 Meeting Expenses				64.35
70-5-0700-7052	002070 Meeting Expenses				11.58
LAKESIDE-21C	PASTRY PLATTER - WQMP MEETING	196	12-Apr-2017	12-Apr-2017	
70-5-0700-7052	002070 Meeting Expenses				49.00
OWWA-MAY7-	ONT WATER CONF - MAY7-10	196	24-Mar-2017	12-Apr-2017	
70-5-0700-7050	002070 002003 Conferences				847.50
WAL-MART M/	POP - WQMP MEETING	196	08-Mar-2017	12-Apr-2017	
70-5-0700-7052	002070 Meeting Expenses				14.55
ZEHRS-MAR9	FRUIT&VEGGIE PLATTERS	196	09-Mar-2017	12-Apr-2017	
70-5-0700-7052	002070 Meeting Expenses				42.94
080250 HYDRO ONE NETWORKS INC					
200141677460	MAR/17 HYDRO - RUTHVEN WATER PLANT	196	06-Apr-2017	12-Apr-2017	
70-5-0700-7420	002073 Electricity				57,043.02
200141680692	MAR/17 HYDRO - LOW LIFT	196	06-Apr-2017	12-Apr-2017	
70-5-0700-7420	002073 Electricity				24,900.13
200152134969	MAR/17 HYDRO - METER#17	196	06-Apr-2017	12-Apr-2017	
70-5-0700-7420	002073 Electricity				40.53
70-5-0700-7420	002073 Electricity				-2.87
150365 ONTARIO CLEAN WATER AGENCY					
INV000093396	MAR/17 OPER&MTCE	196	31-Mar-2017	12-Apr-2017	
70-5-0700-6720	002071 OCWA Operating Contract				223,405.71
180325 RICOH CANADA INC					
SCO91493401	COPIER CONTRACT - FEB21-MAR20	196	31-Mar-2017	12-Apr-2017	
70-5-0700-7010	002070 002060 Office Supplies				85.83
190185 SGS CANADA INC. ENVIRONMENTAL SERVICES					
11046802	WATER QUALITY STUDIES CORROSION-UWSS	196	30-Mar-2017	12-Apr-2017	
70-5-0700-7989	002075 Operational Programs & Studies				1,079.15
11046845	WATER QUALITY STUDIES CORROSION-LAKESHORE	196	30-Mar-2017	12-Apr-2017	
70-5-0700-7989	002075 Operational Programs & Studies				98.31
11046846	WATER QUALITY STUDIES CORROSION-ESSEX	196	30-Mar-2017	12-Apr-2017	
70-5-0700-7989	002075 Operational Programs & Studies				98.31
11046848	WATER QUALITY STUDIES CORROSION-LEAMINGTON	196	30-Mar-2017	12-Apr-2017	
70-5-0700-7989	002075 Operational Programs & Studies				98.31
11046861	WATER QUALITY STUDIES CORROSION-KINGSVILLE	196	30-Mar-2017	12-Apr-2017	
70-5-0700-7989	002075 Operational Programs & Studies				196.62
Department Totals :					320,331.00