

THE UNION WATER SUPPLY SYSTEM

JOINT BOARD OF MANAGEMENT

AGENDA

MARCH 16, 2016

COMMENCING AT 9:00 AM

IN THE COMMUNITY ROOM - KINGSVILLE ARENA

(A) Call to Order:

(B) Disclosures of Pecuniary Interest:

(C) Adoption of Minutes:

Minutes of the meeting of the Union Water Supply System Joint Board of Management
Meeting held Wednesday, February 17, 2016
Pages 2 - 5

(D) Business Arising Out of the Minutes:

(E) Items for Consideration:

1. UW09/16 - Status Update of UWSS Operations & Maintenance Activities and Capital Works to March 11, 2016 dated March 11, 2016
Pages 6 - 8
2. UW/10/16 - UWSS 2015 Financial Statements dated March 2016
To be provided under separate cover
3. UW/11/16 - Report NSERC Research Grant - Cyanotoxin Control Strategies in Drinking Water Project dated March 8, 2016
Pages 9 - 13
4. UW/12/16 - Report of Payments from February 12 to March 11, 2016 dated March 11, 2016
Pages 14 - 18

(F) New Business:

(G) Adjournment:

(H) Date of Next Meeting: April 20, 2016 at 9:00 am in the Kingsville Community Room, Kingsville Arena

/kmj

THE UNION WATER SUPPLY SYSTEM
JOINT BOARD OF MANAGEMENT
MINUTES OF MEETING
HELD FEBRUARY 17, 2016 AT 9 AM
IN KINGSVILLE COMMUNITY ROOM - KINGSVILLE ARENA

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

Members Absent: Mayor Patterson, Councillors Dunn, Jacobs, Hammond - Leamington

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

OCWA Staff Present: there were none present

Municipal Staff Present: Nelson Carvalho - Leamington
Andy Graf - Essex

Call to Order: 9:03 am

Disclosures of Pecuniary Interest: None

Adoption of Council Minutes:

No. UW-13-16

Moved by: Dan Diemer

Seconded by: Larry Verbeke

That Minutes of the UWSS Board meeting of January 20, 2016 be received.

Carried

Business Arising Out of the Minutes:

It was brought to the recording secretary's attention of a spelling error of Mr. Dunn's name. She apologized for the oversight.

The Manager reminds members of the Board of their request at the January meeting to prepare a press release in relation to the Flint crisis. He notes that he has not yet done so as the MOE's inspection report has not yet been received. Once he has received and reviewed the inspector's report he will prepare the press release.

Report UW/05/16 dated February 12, 2016 re: Status update on UWSS Operations & Maintenance Activities and Capital Works to February 12, 2016

The Manager notes that things are running normally and smoothly at this point of the winter. He notes again that no inspection report has been received as of today's date.

He informs members of the board that the Operations Manager will be meeting with Watech this week in regard to the raw water intake repairs. The communications upgrade are continuing and will be ongoing throughout 2016.

The Manager notes that the coagulant pilot study was shut down on January 25th 2016. He is suggesting that the UWSS wait until warmer water/weather and also due in part to the concern of the MOE with any change in water chemistry, which stems from the Flint crisis. He further explains that a consultant has been hired to analyze all of the data and determine the best way to move forward with the coagulant study.

The Low Lift pump #3 and the Cottam Booster pump #3 were removed for inspection over the past month and a new flow meter has been installed for Filter #3.

He reviews the flows noting it is still very early to determine any pattern.

The Board asks why all of these pumps have been removed. The Manager explains that the pumps are on a preventative maintenance schedule and this way any wear can be determined prior to a break down.

No. UW14-16

Moved by: Larry Patterson

Seconded by: Dan Diemer

That report UW/05/16 dated February 12, 2016 re: Status update on UWSS Operations & Maintenance Activities and Capital Works to February 12, 2016 is received.

Carried (UW/05/16)

Report UW/06/16 dated February 12, 2016 re: Annual Report under the Safe Drinking Water Act and Ontario Regulation 170/03

The Manager notes that this is a yearly report that must be prepared and provided to Board members. This is a report on sets of whether or not there have been any compliance issues, capital works, and testing results. The Manager confirms that the UWSS was not out of compliance at any time during the 2016 year.

He notes one testing error which occurred on November 11, 2016. This testing result is the result of operator error as it has been determined the operator took both samples from the raw water instead of one sample from each the raw water and treated water. New samples were taken and the testing results were within normal parameters.

No. UW-15-16

Moved by: Mayor Santos

Seconded by: Mayor McDermott

That the Board receives the Annual Report for 2015 prepared under Section 11 of Regulation 170/03 made under the Safe Drinking Water Act of 2002.

Carried (UW/06/16)

Report UW/07/16 dated February 12, 2016 re: Summary Report for Municipalities under Regulation 170/03 made under the Safe Drinking Water Act

The Manager explains that this report provides more details on the actual water taken by each municipality throughout the year. There is a lot of cross over information shared under the previous Annual Report 2015. This report provides information on any Adverse Water Quality Incidents (AWQIs). The Manager also mentions that the peaks that UWSS used to experience in the summer months have been shaved down and UWSS operators don't see nearly as many high daily peaks as in past years. He attributes this trend to the greenhouse industry being much more cognisant of water use for their crops.

No. UW-16-16

Moved by: Tony Gaffan

Seconded by: Mayor Santos

That the Board receive the Summary Report for 2015 which fulfills the requirements for Schedule 22 of Ontario Regulation 170/03; and

That the Summary Report be forward to the four participating municipalities namely the Town of Kingsville, Town of Essex, Town of Lakeshore and the Municipality of Leamington.

Carried (UW/07/16)

Report UW/08/16 dated February 12, 2016 re: Payments from January 15 to February 12, 2016

No. UW-17-16

Moved by: Larry Verbeke

Seconded by: Dan Diemer

That report UW/08/16 dated February 12, 2016 re: Payments from January 15 to February 12, 2016 is received.

Carried (UW/08/16)

New Business

The Manager reminds members of the energy grant UWSS is trying to obtain from the Ontario Energy Board for Detailed Engineering Study of a Combined Heat and Power (CHP) cogeneration facility for UWSS. He is unsure why the grant funding has not been approved as of yet, but is still working with the consultants to try and get funding for the necessary studies.

Adjournment:

Moved by: Tony Gaffan

Seconded by: Larry Patterson

That the meeting adjourn at 9:20 am

Carried

Date of Next Meeting: March 16, 2016, 9 am, Kingsville Community Room,
Kingsville Arena

/kmj

UW/09/16

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

From: Rodney Bouchard, Union Water Manager

Date: March 11, 2016

Re: Status Update of UWSS Operations & Maintenance Activities and Capital Works to March 11, 2016



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. Watech Services will be coming to the plant in May to conduct an inspection of clearwell #2, repair raw water intake #2 and install sodium Hypochlorite lines in intake #1. They will return in October to complete the repairs in reservoir #2.
3. Communication upgrades to Cottam are still ongoing. The next step is to establish UWSS owned communication link between Essex Tower, Cottam Booster and control Valves VC#9 and #26. This work will progress over the next few months.
4. UWSS retained Associated Engineering to conduct on-site bench testing of various coagulants and polymers. Testing of 5 different coagulants was undertaken on March 2-4, 2016. The consultants will return to the treatment plant during the week of March 21st, 2016 to test 5 additional coagulants. The results of this testing will be used to select the best coagulant and polymer for optimized coagulation and to minimize the potential for corrosion in the distribution system.
5. The Ministry of Environment (MOE) inspection of the UWSS facilities is still ongoing.

March 11, 2016 - UW/09/16

Re: Status Update of UWSS Operations & Maintenance Activities and Capital Works
to March 11, 2016

6. Cottam Booster pump #3 was inspected and refurbished and was reinstalled the week of March 7th.
7. Gillett Sheet Metal is currently working on the removal of Microstrainer #1. This equipment hasn't been used in over 10 years and is being decommissioned. Microstrainer #2 will be decommissioned later in the year.
8. The contract for replacement of the Pole Barn metal roof was awarded to All Good Construction of Tilbury, ON. Replacement of the Pole Barn roof will be completed by early April 2016.
9. Relocation of the carbon system has been completed. The old carbon pumping system is currently being decommissioned.
10. An old water meter on the corner of Cull Street and Heritage Road in Kingsville is being removed as it is no longer being used. One of the isolation valves at this location also needs to be repaired. This work will be completed by early April 2016. A leaking valve on Graham Sideroad needs repair, parts are on order and will be repaired as soon as possible.
11. UWSS retained Phasor to convert the existing parking lot lights at the treatment plant to LED. This work was completed during the week of March 7th. A photocell was also installed for operation control of these LED lights.
12. Raw water #2 valve actuator needs to be replaced since we are unable to get parts for the existing one.

Comparative Flows for 2012 through 2016 in Millions of Imperial Gallons (for the period 1 January to March 10, 2016)

	2012	2013	2014	2015	2016
Flow to Date (MG)	454.46	429.50	469.95	433.79	421.27
Max Day (MGD)	8.47	7.97	8.60	8.47	8.01
Min Day (MGD)	4.37	4.65	4.19	3.79	4.29
Average Day (MGD)	6.49	6.22	6.81	6.29	6.02
No of Days	70	69	69	69	70

Flows to date are down 12.52 MIG or 2.89% from last year. The 2016 flows to date are 5.74% below the previous 4 year average.

March 11, 2016 - UW/09/16

Re: Status Update of UWSS Operations & Maintenance Activities and Capital Works
to March 11, 2016

Recommendation:

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

Respectfully submitted,



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

rb/kmj

Filename: t:\union wtr\reports to board\2016\uw09-16 operations report for march 2016.revised.docx

UW/11/16

Report

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

From: Rodney Bouchard, Union Water Manager

Date: March 8, 2016

Re: NSERC Research Grant - Cyanotoxin Control Strategies in
Drinking Water Project



Recommendation:

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

Background:

In June 2016, the UWSS General Manager was invited to participate in a proposed project being led by Dr. Ron Hofmann of the University of Toronto that would focus on development of control strategies for toxic algae, specifically cyanobacteria, in drinking water. The project was conceived as a collaborative research project that would be lead by the University of Toronto and would include the City of Hamilton, the City of Toronto, the Regional Municipality of Durham, the Regional Municipality of York and Union Water Supply System as industry partners.

A grant funding application was prepared by the University of Toronto for this proposed project and submitted to the Natural Sciences and Engineering Research Council of Canada (NSERC). UWSS provided a letter of support to the University of Toronto that outlined its support for the proposed project. This letter of support was included in the grant application package. A copy of the UWSS' letter of support dated July 23, 2015 is attached to this report.

Discussion:

On February 23, 2016, the University of Toronto and its project partners (including UWSS) were issued correspondence by NSERC informing the project participants that NSERC would provide grant funding in the amount of \$135,680 for the project titled "**Cyanotoxin Control Strategies in Drinking Water**". A copy of NSERC letter dated February 23, 2016 is attached to this report.

March 8, 2016 - UW/11/16

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Re: NSERC Research Grant - Cyanotoxin Control Strategies in Drinking Water

It should also be noted that the project partners are committed to match the NSERC grant funding in order to receive the NSERC funds. As such, the project partners will also contribute \$135,680 to the project for a total project budget of \$271,360.

UWSS' participation in this project builds upon the 2012-2015 Canadian Water Network (CWN) study titled "**Source Water Protection in Surface Waters: Evaluating Novel Monitoring Strategies for the Prioritization of Threats and the Prevention of Waterborne Disease Outbreaks**" that included UWSS as a main participant. The University of Toronto led project will use the UWSS blue-green algae/cyanobacteria data and information that was generated through the CWN study as a foundation for developing Cyanotoxin control strategies for drinking water.

Financial Impact:

As indicated in the UWSS' July 23rd, 2015 letter of support, the UWSS' financial commitment to this project is through in-kind support (i.e. staff time support) in the amount of \$6,825. UWSS will also provide blue-green algae/cyanobacteria data generated during the 2012-2015 CWN study and similar data that is continuously been collected by UWSS through its real time blue-green algae monitoring instrument. Further, UWSS will provide raw and treated water samples to the University of Toronto at regular intervals during the project for testing by University of Toronto scientists. Associated laboratory testing costs will be borne by the University of Toronto.

Closing Comments:

This report is being provided to the UWSS Board for information purposes. The UWSS General Manager believes that participation in this project will result in beneficial strategies to help UWSS address and control future cyanobacteria/cyanotoxin related drinking water issues.

Respectfully submitted,



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

Attachments.

Filename: t:\union wtr\reports to board\2016\uw11-16 - nserc research grant.university of toronto.cyanotoxin control strategies in drinking water.docx



Union Water Supply System

P.O. Box 340, 1615 Union Avenue, Ruthven, Ontario, N0P 2G0

Tele: 519-326-1668 Fax: 519-326-3490

Email: rbouchard@unionwater.ca

www.unionwater.ca

SENT BY: email
July 23, 2015

Ron Hofmann
Department of Civil Engineering
University of Toronto
35 St. George St., Toronto, ON
M5S 1A4

Dear Prof. Hofmann,

The Union Water Supply System provides drinking water to over 56,000 residents in southwestern Ontario. The System is owned by the four municipalities of Leamington, Kingsville, Essex and Lakeshore, and is managed by the UWSS Joint Board of Management. UWSS has 3 direct employees. Operations and maintenance of the UWSS facilities is currently contracted out to the Ontario Clean Water Agency, which has a staff of 15 for our facilities. All capital works, major maintenance, energy costs, chemical costs, and studies (i.e. cyanotoxins, coagulant evaluation, etc) are the responsibility of UWSS and managed accordingly. OCWA operations staff are there to support us with any research/capital works that we plan and undertake.

We are pleased to support the proposed study in "Cyanotoxin Control Strategies in Drinking Water". The UWSS draws water from Lake Erie, which has experienced severe algae blooms in the recent past. While these blooms have bypassed the UWSS intake in recent years, the system is likely vulnerable to future events. To help to prepare for such an event, the System recently purchased a YSI multi-parameter probe to detect algae and cyanobacteria cells in our intake water. To our knowledge, UWSS is one of the first utilities in Ontario to use such a probe, and we are still gaining experience in how best to use it, and are trying to determine if it is sensitive enough to provide early warning of an algae bloom. Participation in the proposed study will allow us to compare the signal from the online probe to grab-sample measurements of algae and cyanobacteria made by microscope, which is the "gold standard" technique for measurement. We are hoping to prove that the online probe is sensitive enough to provide accurate early warning of an algae bloom, to allow us time to make operational changes to deal with the bloom, without an unacceptably high rate of false positives or false negatives in the probe measurements.

The UWSS will provide an estimated 32 hours of operator time per year at \$50/hr for 3 years for the project (\$4800), consisting of sample collection and shipment activities for the algae/cyanobacteria grab samples. The UWSS will also provide 37 hours of total of Project Manager time over the course of the 3 years project, at \$55/hr (Mr. Rodney Bouchard, =\$2025). The total in-kind contribution is therefore \$6,825 for the three years.

Sincerely,

A handwritten signature in blue ink, appearing to read 'R. Bouchard', is positioned above the typed name.

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

Filename: c:\users\kjohnson\documents\projects\u of t cyanobacteria project\07-23-15 ltr to ron hoffman.docx



MAR 08 2016

350 Albert Street
Ottawa, Canada
K1A 1H5

350, rue Albert
Ottawa, Canada
K1A 1H5

Union Water Supply System

February 23, 2016

File: CRDPJ 482052 - 15

Dr. R. Hofmann
Department of Civil Engineering
University of Toronto
Galbraith Building
35 St George Street
TORONTO ON M5S 1A4

Dear Dr. Hofmann:

Re: Collaborative Research and Development Grant - Project (CRDPJ) entitled "Cyanotoxin control strategies in drinking water", with the City of Hamilton, the City of Toronto, the Regional Municipality of Durham, The Region of Niagara, the Regional Municipality of York and the Union Water Supply System

I am pleased to inform you that NSERC has approved in principle the above-mentioned grant at the University of Toronto.

The award is conditional upon NSERC's approval of the final signed Research Agreement between the university and the industrial partners. This agreement must comply with NSERC's Policy on Intellectual Property and must be received by August 23, 2016, after which this letter of offer will be withdrawn.

Once the condition is satisfied, the **start date** for the NSERC project cannot be set prior to **April 1st, 2016. The requested IP agreement must cover, at a minimum, the entire duration of the NSERC project.**

I enclose for your information copies of the reviews solicited on behalf of your application. The identities of the authors and any third party reference have been removed following the principles of the Privacy Act. Please inform NSERC if you wish to receive a copy of these documents in the other official language.

The cash commitments of NSERC and the industrial sponsors to this project are summarized below.

	Original Amount Requested	Industrial Cash	Industrial In-kind	Amount Recommended
Year 1	\$30,987	\$35,713	\$40,520	\$30,987
Year 2	\$42,329	\$28,571	\$13,650	\$42,329
Year 3	\$62,364	\$3,571	\$13,650	\$62,364
TOTAL	\$135,680	\$67,855	\$67,820	\$135,680

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Periodic reporting will be requested at specific times. The Terms and Conditions of this award will be sent to you with the release of the first instalment.

Please do not hesitate to contact me if you need any further assistance.

Sincerely,



Maya Farhat, Ph.D.
Senior Program Officer
Research Partnerships

Telephone: (613) 996-0519
Fax: (613) 992-5337
E-Mail: Maya.Farhat@nserc-crsng.gc.ca

MF/yw

Enclosure

cc: H. Prabhu, Research, Toronto
B. Posedowski, City of Hamilton
L. Ballantyne, City of Toronto
G. Lymer, Regional Municipality of Durham
E. Shisler, Regional Municipality of Niagara
L. Meteer, Regional Municipality of York
R. Bouchard, Union Water Supply System

UW/12/16

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

From: Rodney Bouchard, Union Water Manager

Date: March 11, 2016

Re: Payments for the UWSS from February 12 to March 11, 2016



Aim:

To provide the Board with a copy of payments made by the Union Water Supply System from February 12 to March 11, 2016.

Recommendation:

For information purposes.

Respectfully submitted,



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

rb/kmj

Filename: t:\union wtr\reports to board\2016\uw12-16 payments from feb to march.docx



Vendor : 001410 To PT00000083
 Batch : All
 Department : All

Cheque Print Date : 12-Feb-2016 To 12-Feb-2016
 Bank : 01 To 07
 Class : All

Vendor Invoice	Vendor Name Description				Batch Invc Date	Invc Due Date	Amount
G.L. Account	CC1	CC2	CC3	GL Account Name			
DEPARTMENT 0700 Union Water System							
030515 CUETS FINANCIAL							
APGO-1945	2016 APGO MEMBERSHIP				80 04-Jan-2016	11-Feb-2016	
70-5-0700-7020	002070			Dues, Memberships and Subscriptions			474.60
KINGS DAISY I MILK					80 20-Jan-2016	11-Feb-2016	
70-5-0700-7052	002070			Meeting Expenses			2.25
LUCKY CHOP: LUNCH - JAN5					80 05-Jan-2016	11-Feb-2016	
70-5-0700-7052	002070			Meeting Expenses			24.84
70-5-0700-7052	002070			Meeting Expenses			3.73
TIM HORTONS TIMBITS					80 20-Jan-2016	11-Feb-2016	
70-5-0700-7052	002070			Meeting Expenses			8.99
050070 ELECTRICAL WHOLESALE SUPPLY							
1150558	CABLE - CARBON FEED SYSTEM				80 18-Jan-2016	11-Feb-2016	
70-7-0700-8745	700170			Treatment Plant			430.81
130838 MUNICIPALITY OF LEAMINGTON							
530-177 FEB&/	PROPERTY TAXES - LWT				80 11-Feb-2016	11-Feb-2016	
70-5-0700-6750	002072			Property Tax			1,426.80
180325 RICOH CANADA INC							
SCO91014335	COPIER CONTRACT				80 29-Jan-2016	11-Feb-2016	
70-5-0700-7010	002070	002060		Office Supplies			120.52
Department Totals :							2,492.54



Vendor : 001410 To PT00000084
 Batch : All
 Department : All

Cheque Print Date : 19-Feb-2016 To 19-Feb-2016
 Bank : 01 To 07
 Class : All

Vendor Invoice	Vendor Name Description	Batch	Invc Date	Invc 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 PHONES		85	01-Feb-2016	18-Feb-2016	
70-5-0700-7110	002070 002083 Telecommunications Usage				30.51
080250 HYDRO ONE NETWORKS INC					
200141677460 JAN/16 HYDRO - RUTHVEN WTP		84	05-Feb-2016	18-Feb-2016	
70-5-0700-7420	002073 Electricity				48,399.99
200141680692 JAN/16 HYDRO - LOW LIFT		84	05-Feb-2016	18-Feb-2016	
70-5-0700-7420	002073 Electricity				19,205.86
200141690190 JAN/16 HYDRO - METER#26		84	08-Feb-2016	18-Feb-2016	
70-5-0700-7420	002073 Electricity				105.87
120062 LANDMARK MUNICIPAL SERVICES ULC					
2016-007 EWT - SAFETY UPGRADES		84	04-Feb-2016	18-Feb-2016	
70-7-0700-8705	Essex Water Tower				2,203.50
150365 ONTARIO CLEAN WATER AGENCY					
INV000083744 JAN/16 OPER&MTCE		84	11-Feb-2016	18-Feb-2016	
70-5-0700-6720	002071 OCWA Operating Contract				219,455.51
190755 SUN LIFE ASSURANCE COMPANY OF CANADA					
FEB-16 UNION WATER LOAN 3724:1		84	01-Feb-2016	18-Feb-2016	
70-5-0700-6000	002020 006901 Debenture Principal				2,577.48
70-5-0700-6100	002010 006901 Debenture Interest				133,987.30
210120 UNION GAS LTD					
JAN-FEB16 16 1-1375.898M3 GAS - COTTAM BOOSTER		84	10-Feb-2016	18-Feb-2016	
70-5-0700-7410	002073 Gas				388.26
Department Totals :					426,354.28



Vendor : 001410 To PT00000084

Batch : All

Department : All

Cheque Print Date : 25-Feb-2016 To 25-Feb-2016

Bank : 01 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							
010103	ASSOCIATED ENGINEERING (ONT) LTD							
520724	WATER QUALITY STUDY					95 16-Feb-2016	25-Feb-2016	
70-5-0700-7989	002070	Operational Programs & Studies						7,613.09
130360	METCON SALES & ENGINEERING LTD							
058222	CHLORINE ANALYZER					95 04-Feb-2016	25-Feb-2016	
70-7-0700-8795	Water Quality/Level Instrumentation							4,237.50
Department Totals :								11,850.59



Vendor : 001410 To PT00000084
 Batch : All
 Department : All

Cheque Print Date : 03-Mar-2016 To 04-Mar-2016
 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-JAN16	1-16KWH - METER#4	110	26-Feb-2016	03-Mar-2016	
70-5-0700-7420	002073 Electricity				63.18
080025 HACH SALES & SERVICE CANADA LP					
116732	CHLORINE ANALYZER	110	09-Feb-2016	03-Mar-2016	
70-7-0700-8745	700160 Treatment Plant				5,200.85
080250 HYDRO ONE NETWORKS INC					
200141683726	JAN/16 HYDRO - METER#15	110	25-Feb-2016	03-Mar-2016	
70-5-0700-7420	002073 Electricity				32.16
70-5-0700-7420	002073 Electricity				-0.13
200141687564	JAN/16 HYDRO - METER#25	110	22-Feb-2016	03-Mar-2016	
70-5-0700-7420	002073 Electricity				32.66
70-5-0700-7420	002073 Electricity				-0.39
200152134969	FEB/16 HYDRO - METER#17	110	19-Feb-2016	03-Mar-2016	
70-5-0700-7420	002073 Electricity				40.95
210120 UNION GAS LTD					
JAN-FEB16 16	17977.424M3 GAS - RUTHVEN WTP	110	22-Feb-2016	03-Mar-2016	
70-5-0700-7410	002073 Gas				4,839.23
JAN-FEB16 UN	2386.259M3 GAS - LOW LIFT	110	24-Feb-2016	03-Mar-2016	
70-5-0700-7410	002073 Gas				654.74
Department Totals :					10,863.25