

THE UNION WATER SUPPLY SYSTEM
JOINT BOARD OF MANAGEMENT
AGENDA
NOVEMBER 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, October 19, 2016

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(D) Business Arising Out of the Minutes:

(E) Items for Consideration:

1. UW/29/16 - Status Update of UWSS Operations & Maintenance Activities and Capital Works to November 10, 2016

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2. UW/30/16 - UWSS 2017 Preliminary Operational and Capital Budget dated November 10, 2016

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Pages 10 - 16 - 2017 UWSS Draft Operations and Capital Budget Tables and Details

Pages 17 - 20 - UWSS 6 Year Capital Plan Tables and Details

3. UW/31/16 - Payments for the UWSS from October 14 to November 10, 2016, dated November 10, 2016

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(F) New Business:

(G) Adjournment:

(H) Date of Next Meeting: December 21, 2016, 9:00 am, Kingsville Community Room, Kingsville Arena

**THE UNION WATER SUPPLY SYSTEM
JOINT BOARD OF MANAGEMENT**

MINUTES OF MEETING

HELD OCTOBER 19, 2016 AT 9 AM

IN KINGSVILLE COMMUNITY ROOM - KINGSVILLE ARENA

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

Members Absent: Mayor Paterson, Deputy Mayor MacDonald, Councillor Dunn -
Leamington
Councillor Gaffan - Kingsville

Staff Present: Shannon Belleau - Leamington

**OCWA Staff
Present:** Dale Dillen, Ken Penney

Call to Order: 9:01 am

Disclosures of Pecuniary Interest: none

Adoption of Council Minutes:

No. UW-46-16

Moved by: Thomas Neufeld

Seconded by: John Jacobs

That Minutes of the UWSS Joint Board of Management meeting of September 21, 2016 be received.

Carried

Business Arising Out of the Minutes:

There was none.

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Report UW/27/16 dated October 14, 2016 re: Status Update of the UWSS Operations & Maintenance Activities and Capital Works to October 14, 2016

The Manager reviews his report with members of the UWSS Board. He indicates that Meter #22 is now functional with the new replacement. However, communications will be worked on in 2017.

He informs members of another watermain break along County Road 34, this is along the same stretch of road as the watermain break reported at the September meeting. Kingsville staff attended to the repair, while OCWA staff were on hand for supervision.

The Manager informs members that the UWSS and OCWA team has decided to discontinue use of the new coagulant, Hyperion ION, due to the larger than anticipated amount of residual waste. He notes that the aluminum residual was lower with the new coagulant, but the residual waste was too high to continue on with it. Therefore, it was decided with OCWA staff to return to the previous coagulant. Due to the approaching cold weather, the Manager indicated that aluminum residuals should remain low. The hope is to look for another coagulant in the Spring of 2017.

He informs members of the Leamington Distribution Inspection Report received from the MOECC, with a rating of 98.8%.

The Manager then reviews the reservoir repair and indicates that Watech Services should be on site in November to complete the necessary repairs. This is a 2016 Capital Budget item of \$50,000 and should stay within those parameters. He also notes that the roof repair on the chlorine building has been completed by Kingsville Roofing.

Summa Engineering has been retained to review the SCADA system at the WTP. The Manager notes that a great deal of work has been completed on SCADA systems over the last few years and this is a way to determine how to move forward with the needed improvements. He confirms that Summa Engineering generally deals with large scale systems at water and wastewater plants and is therefore very qualified to handle the work required at the WTP. He further notes that there are monies in the 2016 budget dedicated to SCADA system and there will be no need for new funding for 2016. He hopes this review will help him plan for the 2017 in terms of SCADA system upgrades.

The Manager informs members of the Board that the Cyanotoxin Control Strategies in Drinking Water Study, or Blue/Green Algae Study has been initiated. He notes a large number of partners and states that UWSS's donation to the study is "in kind" in nature, therefore no monies will be required. The In Kind donation is in the form of staff time, samples and other information that might be required. This is a three (3) year study and he believes that this will help with operations at the WTP.

Finally, the Manager notes that the flows have dropped off as the canneries in the area has completed their tomato season, however, flows for 2016 are still up over 2015 and up over the 4 year average.

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The Manager briefly mentions the article in the Windsor Star regarding fluoride and the non-binding bill that was introduced last week by a Mississauga MP. He reminds members that UWSS does not have the equipment for fluoridation.

He further mentions that there is a moratorium on water taking permits in Ontario for water bottle companies.

The Manager mentions the Federal Clean Water and Waste Water Fund. He is hoping that UWSS could apply for some of the funding. He indicates that the funding is for a Local Services Board and while UWSS does not exactly fit in the parameters of a LSB he is hoping to try and get some funding. Board members suggest that he write a letter to all of the CAOs in support of the funding. The Manager indicates that he will do this.

The Board asks if the Manager plans on returning the Hyperion coagulant again next summer. The Manager indicates that more testing will be required to find the right coagulant and basically UWSS/OCWA is in experimental stage to find the right one.

No. UW-47-16

Moved by: John Hammond

Seconded by: Deputy Mayor Queen

That report UW/27/16 dated October 14, 2016 re: Status Update of the UWSS Operations & Maintenance Activities and Capital Works to October 14, 2016 is received.

Carried (UW/27/16)

Report UW/28/16 dated October 14, 2016 re: Payments from September 16 to October 14, 2016

No. UW-48-16

Moved by: Larry Verbeke

Seconded by: Mayor McDermott

That report UW/28/16 dated October 14, 2016 re: Payments from September 16 to October 14, 2016 is received

Carried (UW/28/16)

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Adjournment

UW-49-16

Moved by: John Jacobs

Seconded by: Mayor McDermott

That the meeting adjourn at 9:22 am

Carried

Date of Next Meeting: Wednesday, November 16, 2016 at 9:00 am in the Kingsville Community Room, Kingsville Arena

/kmj

UW/29/16

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

From: Rodney Bouchard, Union Water Manager

Date: November 10, 2016

Re: Status Update of UWSS Operations & Maintenance Activities and Capital Works to November 10, 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. The use of Hyperion +ION coagulant was discontinued on October 24, 2016 and the previous coagulant, DelPAC 2020 was reinstated. The Director of the MOECC approvals branch was notified of the coagulant as is required by our Drinking Water License. The aluminum residuals have stayed below the 0.100 mg/L guideline since the switch.
3. Watech services are scheduled to repair the expansion joints in reservoir #2 in late November.
4. The Drinking Water Quality Management System (DWQMS) Management Review was conducted on October 24th. Attendees included OCWA Operations Manager, OCWA Process Compliance Technician, UWSS General Manager and UWSS Recording Secretary/Administrative Assistant. The purpose of the Management Review of to discuss operational issues, improvements, etc for the previous year and establish a plan for the following year.
5. The new concrete pad on the exterior of the maintenance shop was completed by CF Bailey Excavating, Inc. of Leamington, ON. CF Bailey Excavating Inc. selected as the lowest quote for this work.

Re: Status Update of UWSS Operations & Maintenance Activities and Capital Works to November 10, 2016

6. Clarifiers #1 and #4 have been taken out of service for annual cleaning and maintenance. Clarifier #1 is being put back into service to accommodate needed maintenance on Clarifier #3.
7. A new Rotork valve actuator has been purchased and is being installed on Raw water line #2.
8. Low Lift wells #1 and #2 were drained and cleaned out on November 7-9, 2016. All components of these wells have been inspected and appeared to be in satisfactory condition.
9. The removal of Microstrainer #1 is almost complete. A new floor, with steel beam supports, will be constructed over the Microstrainer "cavity". This is anticipated to occur in January 2017. Upon completion of Microstrainer #1, removal of Microstrainer will be initiated.
10. Filters #2 and #4 will be coming out of service later in November for valve and meter replacement. This work will be conducted in-house by OCWA maintenance staff.
11. Associated Engineering conducted a Workshop at the UWSS Ruthven Treatment on October 26, 2016 with UWSS and OCWA operations staff. The purpose of the workshop was to present the draft results of the documentation review, treatment process review, and preliminary options evaluation for primary disinfection, clarification, residuals management, etc. as part of the Water Quality Master Plan study. A second workshop is scheduled for December 7, 2016 to present information on preferred options for treatment processes that are being evaluated, and to provide preliminary capital and operations and maintenance costs for these options.
12. Summa Engineering was on-site at the UWSS Ruthven Water Treatment Plant on Nov 7-9, 2016 to conduct field observations and obtain information on UWSS SCADA system. This work was conducted as the initial task to the UWSS SCADA System Evaluation and Master Plan.

Re: Status Update of UWSS Operations & Maintenance Activities and Capital Works
to November 10, 2016

Comparative Flows for 2012 through 2016 in Millions of Imperial Gallons (for the period
1 January to November 9, 2016)

	2012	2013	2014	2015	2016
Flow to Date (MG)	3161.00	2827.76	2967.86	2882.34	3083.13
Max Day (MGD)	17.94	15.30	15.70	15.36	16.75
Min Day (MGD)	4.37	4.65	4.19	3.79	4.29
Average Day (MGD)	10.07	9.03	9.48	9.21	9.82
No of Days	314	313	313	313	314

Flows to date are up 200.79 MIG or 6.97% from last year. The 2016 flows to date are up 4.12% 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\2016\uw29-16 operations report for november 2016.docx

UW/30/16

Report

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

From: Rodney Bouchard, Union Water Manager

Date: November 10, 2016

Re: UWSS 2017 Preliminary Operational and Capital Budget



Recommendation:

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

Background:

Since the Transfer Order of January 2001, the UWSS Board is responsible for considering and approving an annual budget for the Union Water Supply System.

Discussion:

The Preliminary UWSS 2017 Budget detail sheets have been prepared based on the discussions with the contracted operator, OCWA, in regards to operational budget, major maintenance needs, and existing operational issues that would require implementation of capital works to resolve.

The Preliminary UWSS 2017 Budget will be presented to the UWSS Board members at the November 16, 2016 UWSS Board meeting for initial discussion purposes. As such, it is not intended by the UWSS General Manager to seek approval of the Preliminary UWSS 2017 Budget at the November 16, 2016 Board meeting. It is proposed that the Preliminary UWSS 2017 Budget will be included on the Agenda for the December 21, 2016 UWSS Board meeting for deliberations and approval.

Respectfully submitted,



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

2017 UWSS DRAFT OPERATIONS AND CAPITAL BUDGET
TABLES AND DETAILS

**UNION WATER SUPPLY SYSTEM JOINT BOARD OF MANAGEMENT
2017 DRAFT Budget November 10, 2016
Flows and Revenue**

Flow Metering Location	2016	2016	2017	2018	2019	2020	2021	2022
	Approved - Revised July 20, 2016	As of November 9, 2016	\$0.05/1000 Gallon Rate Increase on Rate 1	\$0.05/1000 Gallon Rate Increase on Rate 1	\$0.05/1000 Gallon Rate Increase on Rate 1	\$0.05/1000 Gallon Rate Increase on Rate 1	\$0.05/1000 Gallon Rate Increase on Rate 1	\$0.05/1000 Gallon Rate Increase on Rate 1
Essex PUC	175,000,000	157,962,970	175,000,000	175,000,000	175,000,000	175,000,000	175,000,000	175,000,000
Gosfield N. Twsp	120,000,000	111,708,045	120,000,000	120,000,000	120,000,000	120,000,000	120,000,000	120,000,000
Gosfield S. Twsp	1,040,000,000	1,019,014,600	1,070,000,000	1,070,000,000	1,070,000,000	1,070,000,000	1,070,000,000	1,070,000,000
Highbury CanCo	160,000,000	156,246,700	165,000,000	165,000,000	165,000,000	165,000,000	165,000,000	165,000,000
Kingsville PUC	135,000,000	132,298,540	140,000,000	140,000,000	140,000,000	140,000,000	140,000,000	140,000,000
Leamington PUC	1,415,000,000	1,320,089,040	1,430,000,000	1,430,000,000	1,430,000,000	1,430,000,000	1,430,000,000	1,430,000,000
Lakeshore	95,000,000	95,640,449	100,000,000	100,000,000	100,000,000	100,000,000	100,000,000	100,000,000
Total Flow:	3,140,000,000	2,992,960,345	3,200,000,000	3,200,000,000	3,200,000,000	3,200,000,000	3,200,000,000	3,200,000,000
Variance from Previous:	-0.18%							
Rate 1 Flow	2,980,000,000	2,836,713,645	3,200,000,000	3,200,000,000	3,200,000,000	3,200,000,000	3,200,000,000	3,200,000,000
Rate 1	\$2.67	\$2.67	\$2.72	\$2.77	\$2.82	\$2.87	\$2.92	\$2.97
Rate 1 Revenue	\$7,956,600	\$7,574,025	\$8,704,000	\$8,864,000	\$9,024,000	\$9,184,000	\$9,344,000	\$9,504,000
Rate 2 Flow	0	0	0	0	0	0	0	0
Rate 2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Rate 2 Revenue	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Rate 3 Flow	0	0	0	0	0	0	0	0
Rate 3 Revenue	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Highbury CanCo Flow	160,000,000	156,246,700	165,000,000	165,000,000	165,000,000	165,000,000	165,000,000	165,000,000
Highbury CanCo Rate	\$1.95	\$1.95	\$2.00	\$2.05	\$2.10	\$2.15	\$2.20	\$2.25
Highbury CanCo Revenue	\$312,000	\$304,681	\$330,000	\$338,250	\$346,500	\$354,750	\$363,000	\$371,250
Lifecycle Rate	\$0.24	\$0.24	\$0.24	\$0.24	\$0.24	\$0.24	\$0.24	\$0.24
	\$753,600	\$718,310	\$768,000	\$768,000	\$768,000	\$768,000	\$768,000	\$768,000
Total Revenue	\$8,268,600	\$7,878,706	\$9,034,000	\$9,202,250	\$9,370,500	\$9,538,750	\$9,707,000	\$9,875,250
Difference from Budget								

UNION WATER SUPPLY SYSTEM JOINT BOARD OF MANAGEMENT

2017 DRAFT Budget - November 10, 2016
Budget Summary

	2016	2016	2017	2018	2019	2020	2021	2022
	Approved - Revised July 20, 2016	Forecasted to December 31, 2016	Rate 1 Increase - \$0.05/1000 gallons	Rate 1 Increase - \$0.05/1000 gallons	Rate 1 Increase - \$0.05/1000 gallons	Rate 1 Increase - \$0.05/1000 gallons	Rate 1 Increase - \$0.05/1000 gallons	Rate 1 Increase - \$0.05/1000 gallons
Water Flows								
REVENUE								
Senior Government Grants	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Wholesale Rate Billings	\$8,268,600	\$8,819,794	\$9,034,000	\$9,202,250	\$9,370,500	\$9,202,250	\$9,538,750	\$9,707,000
Investment Income	\$155,000	\$519,000	\$290,000	\$290,000	\$290,000	\$290,000	\$290,000	\$290,000
Sundry revenue	\$18,000	\$24,000	\$24,000	\$24,000	\$24,000	\$24,000	\$24,000	\$24,000
TOTAL REVENUES	\$8,441,600	\$9,362,794	\$9,348,000	\$9,516,250	\$9,684,500	\$9,516,250	\$9,852,750	\$10,021,000
OPERATING EXPENDITURE								
General Administration	\$459,128	\$454,046	\$468,311	\$477,677	\$487,230	\$496,975	\$431,214	\$439,838
Miscellaneous Legal/Professional fees	\$20,000	\$2,500	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
OCWA Operating Contract	\$2,712,000	\$2,712,000	\$2,766,240	\$2,821,565	\$2,877,996	\$2,877,996	\$2,994,267	\$2,782,478
Programs and Studies	\$270,000	\$195,000	\$345,000	\$525,000	\$285,000	\$235,000	\$2,605,887	\$0
Electricity and Natural Gas	\$1,000,000	\$1,075,000	\$1,250,000	\$1,275,000	\$1,300,000	\$1,325,000	\$1,350,000	\$1,375,000
TOTAL OPERATING EXPENDITURES	\$4,461,128	\$4,438,546	\$4,849,551	\$5,119,242	\$4,970,227	\$4,954,972	\$7,401,368	\$4,617,316
Debt Service	\$2,276,080	\$2,276,080	\$2,294,701	\$2,313,441	\$2,332,441	\$2,332,441	\$2,426,671	\$2,475,205
TOTAL DEBT SERVICE EXPENDITURES	\$2,276,080	\$2,276,080	\$2,294,701	\$2,313,441	\$2,332,441	\$2,332,441	\$2,426,672	\$2,475,205
CAPITAL EXPENDITURE								
Capital Repair, Maintenance & Upgrade Works	\$1,040,000	\$1,040,000	\$2,180,000	\$3,030,000	\$3,075,000	\$405,000	\$590,000	\$1,725,000
New Capital Works	\$0	\$0	\$0	\$0	\$0	\$2,500,000	\$5,000,000	
Contingency								
TOTAL CAPITAL EXPENDITURES	\$1,040,000	\$1,040,000	\$2,180,000	\$3,030,000	\$3,075,000	\$2,905,000	\$5,590,000	\$1,725,000
NET SURPLUS/(DEFICIT)	\$664,392	\$1,608,168	\$23,748	-\$946,433	-\$693,168	-\$676,163	-\$5,565,290	\$1,203,479

UNION WATER SUPPLY SYSTEM JOINT BOARD OF MANAGEMENT
2017 DRAFT Budget - November 10, 2016
Operations and Debt Detail

Number	Account Description	2016	2016	2017	2018	2019	2020	2021	2022
		Approved - Revised July 20, 2016	Forecasted to December 31, 2016	Budget- Rate 1 Increase of \$0.05/1000 Gallons	Budget- Rate 1 Increase of \$0.05/1000 Gallons	Budget- Rate 1 Increase of \$0.05/1000 Gallons	Budget- Rate 1 Increase of \$0.05/1000 Gallons	Budget- Rate 1 Increase of \$0.05/1000 Gallons	Budget- Rate 1 Increase of \$0.05/1000 Gallons
REVENUE ACCOUNTS									
FEES REVENUE									
0700-3700	Wholesale Rate Billings	\$8,268,600	\$8,819,794	\$9,034,000	\$9,202,250	\$9,370,500	\$9,538,750	\$9,707,000	\$9,875,250
		\$8,268,600	\$8,819,794	\$9,034,000	\$9,202,250	\$9,370,500	\$9,538,750	\$9,707,000	\$9,875,250
MISCELLANEOUS REVENUES									
0700-4100	Investment Income (Operations)	\$15,000	\$19,000	\$25,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
0700-3999	Sundry revenue	\$18,000	\$24,000	\$24,000	\$18,000	\$18,000	\$18,000	\$18,000	\$18,000
0700-4100	Investment Income (Reserves)	\$140,000	\$500,000	\$265,000	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000
				\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000
		\$173,000	\$543,000	\$314,000	\$173,000	\$173,000	\$173,000	\$173,000	\$173,000
	TOTAL REVENUES :	\$8,441,600	\$9,362,794	\$9,348,000	\$9,375,250	\$9,543,500	\$9,711,750	\$9,880,000	\$10,048,250
EXPENDITURE ACCOUNTS									
WAGES AND BENEFITS									
0700-5000	Salaried	\$157,100	\$163,052	\$166,500	\$169,830	\$173,227	\$176,691	\$180,225	\$183,829
	Part time	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
0700-5200 to 5210	Benefits - Full time	\$45,778	\$46,761	\$47,696	\$48,650	\$49,623	\$50,616	\$51,628	\$52,660
	Benefits - Part time	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		\$202,878	\$209,813	\$214,196	\$218,480	\$222,850	\$227,307	\$231,853	\$236,490
OFFICE OVERHEAD, RENTS AND SERVICES									
0700-7010	Office supplies	\$2,000	\$1,250	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
0700-7015	Board expenses	\$1,500	\$0	\$1,000	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500
0700-7020	Dues, Memberships, Subsc	\$3,500	\$3,000	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500
0700-7030	Travel & Mileage	\$1,500	\$2,500	\$2,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500
0700-7040	Training	\$6,000	\$2,200	\$5,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000
0700-7050	Conferences	\$6,000	\$5,500	\$5,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000
0700-7052	Meeting Expenses	\$2,000	\$1,750	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
0700-7070	Uniforms/Clothing	\$500	\$350	\$500	\$500	\$500	\$500	\$500	\$500
0700-7950	Legal/Professional fees	\$20,000	\$2,500	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
0700-7959-002070	Audit Fees	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
0700-6750	Property Taxes	\$140,000	\$141,794	\$145,000	\$140,000	\$140,000	\$140,000	\$140,000	\$140,000
0700-7080 & 7085	Operational Purchases/Maint.	\$15,000	\$11,500	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
0700-7090	Sundry	\$250	\$1,000	\$1,000	\$250	\$250	\$250	\$250	\$250
0700-7090	Leamington Assistance	\$30,000	\$30,000	\$30,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
0700-7110	Communications	\$1,500	\$900	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500
0700-7120	Postage & Courier	\$500	\$150	\$500	\$500	\$500	\$500	\$500	\$500
0700-7130	Advertising & Promotion	\$7,000	\$6,367	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000
0700-7140	Insurance	\$15,000	\$14,472	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
0700-7130	Donations & Grants	\$4,000	\$3,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000
0700-7230 to 7290	Office equipment Purchases/Maint.	\$5,000	\$3,500	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
		\$276,250	\$246,733	\$280,500	\$266,250	\$266,250	\$266,250	\$266,250	\$266,250
0700-6720	OCWA Operating Union	\$2,712,000	\$2,712,000	\$2,766,240	\$2,821,565	\$2,877,996	\$2,935,556	\$2,994,267	\$3,054,152
0700-7410 & 7420	Electricity and Natural Gas	\$1,000,000	\$1,075,000	\$1,250,000	\$1,050,000	\$1,100,000	\$1,150,000	\$1,150,000	\$1,150,000
		\$3,712,000	\$3,787,000	\$4,016,240	\$3,871,565	\$3,977,997	\$4,085,557	\$4,144,268	\$4,204,153
0700-7989-002070	Operational Programs & Studies	\$270,000	\$195,000	\$345,000	\$525,000	\$285,000	\$235,000	\$185,000	\$185,000
	Schiller Drain - Kingsville Levy	\$0	\$27,102						
	Water Main Repairs	\$0	\$75,000	\$75,000					
	TOTAL OPERATIONAL EXPENDITURES:	\$4,461,128	\$4,438,546	\$4,855,936	\$4,881,295	\$4,752,097	\$4,814,114	\$4,827,371	\$4,891,893
	NET OPERATIONAL SURPLUS/(DEFICIT)	\$3,980,472	\$4,924,248	\$4,492,064	\$4,493,955	\$4,791,403	\$4,897,636	\$5,052,629	\$5,156,357
DEBT SERVICE									
0700-6000 & 6100	Sun Life Debt Obligation	\$2,276,080	\$2,276,080	\$2,294,701	\$2,313,441	\$2,332,441	\$2,379,089	\$2,426,671	\$2,475,205
	TOTAL DEBT SERVICE:	\$2,276,080	\$2,276,080	\$2,294,701	\$2,313,441	\$2,332,441	\$2,379,089	\$2,426,671	\$2,475,205
	SURPLUS/(DEFICIT) AFTER DEBT	\$1,704,392	\$2,648,168	\$2,197,363	\$2,180,514	\$2,458,963	\$2,518,547	\$2,625,958	\$2,681,152

Union Water Supply System
2016 APPROVED Budget - Revised July 20, 2016
Capital Budget Details

Item Description	CATEGORY							FUNDING SOURCE		
	Studies	Treatment Plant Upgrades & Renewals	Low Lift Upgrades	Cottam Booster Upgrades	SCADA / Communication/ Security System Upgrades	Electrical Systems	Transmission Facilities	TOTAL	Revenue	Reserves
STUDIES/PROGRAMS										
Water Demand/Usage (e.g. Smart Water Study)	\$35,000							\$35,000	\$35,000	
Water Quality (CWN, etc.)	\$55,000							\$55,000	\$55,000	
On-Site Hypochlorite Generation Assessment	\$0							\$0	\$0	
Energy Audit / Optimization	\$50,000							\$50,000	\$50,000	
Algae Related Assessments (e.g. Prelim DAF evaluation, etc.)	\$0							\$0	\$0	
Water Quality/ Treatment Master Plan	\$100,000							\$100,000	\$100,000	
UWSS Restructuring to MSC-Next Steps-Business Plan	\$30,000							\$30,000	\$30,000	
Total Studies/Programs	\$270,000							\$270,000		
CAPITAL WORKS/ MAJOR MAINTENANCE										
Low Lift Pump #1 Major Maintenance			\$25,000					\$25,000	\$25,000	
Zebra Mussel Control System - Intake #1			\$90,000					\$90,000	\$90,000	
Carbon Feed Pump Replacements (2)		\$20,000						\$20,000	\$20,000	
Carbon Scrubber System Upgrade		\$40,000						\$40,000	\$40,000	
Removal of Existing Microstrainers		\$30,000						\$30,000	\$30,000	
Clarifier #1 Painting and Maintenance		\$0						\$0	\$0	
Filter Meter Replacements (Year 2 of 3 Year Program)		\$15,000						\$15,000	\$15,000	
Treatment Plant Valves (eg. Filters, etc)		\$40,000						\$40,000	\$40,000	
Turbidity Meter Replacements (Year 2 of 3 year Program)		\$25,000						\$25,000	\$25,000	
Chlorine Analyzer Replacements (Year 1 of 2 year Program)		\$20,000						\$20,000	\$20,000	
High Lift Pump #3 Rehabilitation		\$45,000						\$45,000	\$45,000	
High Lift Reservoir Repairs		\$50,000						\$50,000	\$50,000	
Waste Lagoon Excavation - south lagoon		\$0						\$0	\$0	
Lagoon Residuals Materials Management		\$100,000						\$100,000	\$100,000	
Lighting Upgrades - Exterior of Treatment Plant		\$15,000						\$15,000	\$15,000	
Window Replacements - Treatment Plant (Year 2 of 3 Year Program)		\$25,000						\$25,000	\$25,000	
Front Foyer/Entrance Upgrades		\$40,000						\$40,000	\$40,000	
Roadway Upgrades to Maintenance Shop - New cement pad		\$15,000						\$15,000	\$15,000	
Upgrades to Existing Pole Barn- New Roof, electrical, etc.		\$40,000						\$40,000	\$40,000	
Construction of New 30ft x 50ft Pole Barn		\$40,000						\$40,000	\$40,000	
Cottam Booster Pump #1 - Rehabilitation				\$15,000				\$15,000	\$15,000	
Security System Install					\$20,000			\$20,000	\$20,000	
SCADA System Upgrade/Maintenance					\$35,000			\$35,000	\$35,000	
Communication System Improvements					\$35,000			\$35,000	\$35,000	
Distribution System Valves and Components							\$60,000	\$60,000	\$60,000	
Master Water Meter Replacements/Upgrades							\$50,000	\$50,000	\$50,000	
Portable 250hp Backup Generator for High lift, low lift, towers, etc						\$150,000		\$150,000	\$150,000	
Total Capital Works/ Major Maintenance	-	\$560,000	\$115,000	\$15,000	\$90,000	\$150,000	\$110,000	\$1,040,000	\$1,040,000	\$0
TOTAL STUDIES , CAPITAL and MAINTENANCE	\$270,000	\$560,000	\$115,000	\$15,000	\$90,000	\$150,000	\$110,000	\$1,310,000	\$1,310,000	\$0

**Union Water Supply System
2017 DRAFT Budget - November 10, 2016
2016 Capital Budget Expenditures**

<u>Item Description</u>	Approved 2016 Budget	Expenditures as of Nov. 9, 2016	Forecasted Total Expenditures	Percent of Budget
STUDIES/PROGRAMS				
Water Demand/Usage (e.g. Smart Water Study)	\$35,000	\$25,000	\$30,000	86%
Water Quality (CWN, etc.)	\$55,000	\$45,685	\$50,000	91%
On-Site Hypochlorite Generation Assessment	\$0	\$0	\$0	-
Energy Audit / Optimization	\$50,000	\$0	\$0	0%
Algae Related Assessments (e.g. Prelim DAF evaluation, etc.)	\$0	\$0	\$0	-
Water Quality/ Treatment Master Plan	\$100,000	\$28,394	\$100,000	100%
UWSS Restructuring to MSC-Next Steps-Business Plan	\$30,000	\$1,500	\$15,000	50%
Total Studies/Programs	\$270,000	\$100,579	\$195,000	72%
CAPITAL WORKS/ MAJOR MAINTENANCE				
Low Lift Pump #3 Major Maintenance	\$25,000	\$19,640	\$19,640	79%
Zebra Mussel Control System - Intake #1	\$90,000	\$89,566	\$89,566	100%
Carbon Feed Pump Replacements (2)	\$20,000	\$11,750	\$15,750	79%
Carbon Scrubber System Upgrade	\$40,000	\$0	\$0	0%
Removal of Existing Microstrainers	\$30,000	\$2,941	\$10,000	33%
Clarifier #1 Painting and Maintenance	\$0	\$0	\$0	-
Filter Meter Replacements (Year 2 of 3 Year Program)	\$15,000	\$15,156	\$15,156	101%
Treatment Plant Valves (eg. Filters, etc)	\$40,000	\$27,914	\$35,000	88%
Turbidity Meter Replacements (Year 2 of 3 year Program)	\$25,000	\$13,172	\$22,000	88%
Chlorine Analyzer Replacements (Year 1 of 2 year Program)	\$20,000	\$13,581	\$18,000	90%
High Lift Pump #3 Rehabilitation	\$45,000	\$30,777	\$30,777	68%
High Lift Reservoir Repairs	\$50,000	\$0	\$48,500	97%
Waste Lagoon Excavation - south lagoon	\$0	\$0	\$0	-
Lagoon Residuals Materials Management	\$100,000	\$103,341	\$103,341	103%
Lighting Upgrades - Exterior of Treatment Plant	\$15,000	\$3,765	\$7,500	50%
Window Replacements - Treatment Plant (Year 2 of 3 Year Program)	\$25,000	\$25,360	\$25,360	101%
Front Foyer/Entrance Upgrades	\$40,000	\$0	\$0	0%
Roadway Upgrades to Maintenance Shop - New cement pad	\$15,000	\$17,300	\$17,300	115%
Upgrades to Existing Pole Barn- New Roof, electrical, etc.	\$40,000	\$12,515	\$30,000	75%
Construction of New 30ft x 50ft Pole Barn	\$40,000	\$0	\$0	0%
Cottam Booster Pump #3 - Rehabilitation	\$15,000	\$5,609	\$5,609	37%
Security System Install	\$20,000	\$0	\$0	0%
SCADA System Upgrade/Maintenance	\$35,000	\$7,711	\$33,000	94%
Communication System Improvements	\$35,000	\$6,869	\$20,000	57%
Distribution System Valves and Components	\$60,000	\$27,083	\$40,000	67%
Master Water Meter Replacements/Upgrades	\$50,000	\$49,813	\$49,813	100%
Portable 250hp Backup Generator for High lift, low lift, towers, etc	\$150,000	\$0	\$150,000	100%
Chlorine Building Roof Liner Replacement (Flat Roof)	\$0	\$12,181	\$12,181	-
Essex Water Tower Ladder Safety Upgrade	\$0	\$1,984	\$1,984	-
Total Capital Works/ Major Maintenance	\$1,040,000	\$498,029	\$800,477	77%
TOTAL STUDIES , CAPITAL and MAINTENANCE	\$1,310,000	\$598,608	\$995,477	76%

**Union Water Supply System
2017 DRAFT Budget - November 10, 2016
Capital Budget Details**

Item Description	CATEGORY							FUNDING SOURCE		
	Studies	Treatment Plant Upgrades & Renewals	Low Lift Upgrades	Cottam Booster Upgrades	SCADA / Communication/ Security System Upgrades	Electrical Systems	Transmission Facilities	TOTAL	Revenue	Reserves
STUDIES/PROGRAMS										
Water Demand/Usage (e.g. Smart Water Study)	\$35,000							\$35,000	\$35,000	
Water Quality (CWN, etc.)	\$35,000							\$35,000	\$35,000	
Dissolved Air Flotation Pilot Testing and Preliminary Engineering	\$150,000							\$150,000	\$150,000	
Energy Audit / Optimization	\$50,000							\$50,000	\$50,000	
UWSS Restructuring to MSC-Next Steps-Business Plan	\$75,000							\$75,000	\$75,000	
									\$0	
									\$0	
Total Studies/Programs	\$345,000							\$345,000		
CAPITAL WORKS/ MAJOR MAINTENANCE										
Low Lift Pump #5 Major Maintenance			\$35,000					\$35,000	\$35,000	
Low lift Asphalt Sealing - Parking Lot and Roadway			\$15,000					\$15,000	\$15,000	
Carbon Scrubber Construction		\$40,000						\$40,000	\$40,000	
Microstrainer Floors		\$30,000						\$30,000	\$30,000	
Filter Meter Replacements (Year 3 of 3 Year Program)		\$15,000						\$15,000	\$15,000	
Filter Media Replacement -Filters 5 and 7		\$140,000						\$140,000	\$140,000	
Turbidity Meter Replacements (Year 3 of 3 year Program)		\$25,000						\$25,000	\$25,000	
Chlorine Analyzer Replacements (Year 2 of 2 year Program)		\$20,000						\$20,000	\$20,000	
High Lift Pump #4 Rehabilitation		\$45,000						\$45,000	\$45,000	
High Lift Compressor #1 Replacement		\$15,000						\$15,000	\$15,000	
Power Capacitor Upgrades - Treatment Plant		\$50,000						\$50,000	\$50,000	
Window Replacements - Treatment Plant (Year 3 of 3 Year Program)		\$25,000						\$25,000	\$25,000	
Front Foyer/Entrance Upgrades		\$75,000						\$75,000	\$75,000	
Treatment Plant Asphalt Sealing		\$15,000						\$15,000	\$15,000	
Waste Lagoon Excavation - south lagoon		\$100,000						\$100,000	\$100,000	
Lagoon Residuals Materials Management		\$100,000						\$100,000	\$100,000	
Cottam Booster Asphalt Sealing				\$10,000				\$10,000	\$10,000	
Security System Install					\$30,000			\$30,000	\$30,000	
SCADA System Upgrade/Maintenance					\$250,000			\$250,000	\$250,000	
Communication System Improvements					\$35,000			\$35,000	\$35,000	
Essex Water Tower Rehabilitation (interior and exterior)							\$850,000	\$850,000	\$850,000	
Distribution System Valves and Components							\$60,000	\$60,000	\$60,000	
Master Water Meter Replacements/Upgrades							\$50,000	\$50,000	\$50,000	
CONTINGENCY (placeholder until better estimates are obtained)								\$150,000	\$150,000	
Total Capital Works/ Major Maintenance	-	\$695,000	\$50,000	\$10,000	\$315,000	\$0	\$960,000	\$2,180,000	\$2,180,000	\$0
TOTAL STUDIES , CAPITAL and MAINTENANCE	\$345,000	\$695,000	\$50,000	\$10,000	\$315,000	\$0	\$960,000	\$2,375,000	\$2,525,000	\$0

UWSS 6 – YEAR CAPITAL PLAN
TABLES AND DETAILS

UNION WATER SUPPLY SYSTEM Six Year Recommended Capital / Major Maintenance - November 10, 2016								DRAFT	
	2017	2018	2019	2020	2021	2022	Total Capital Expenditures 2016 2021	Comments	
Union Area Water Supply System									
Studies and Programs									
Water Demand/Usage Study	\$ 35,000	\$ -					\$ 35,000	Smart Water Study, etc.	
Water Quality Investigations	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 210,000	CWN Algae Study, etc,	
Energy Optimization Study	\$ 50,000						\$ 50,000		
Dissolved Air Flotation Pilot Testing and Preliminary Engineering	\$ 150,000						\$ 150,000	Evaluate the Potential for Installation of DAF Retrofit in existing clarifiers.	
UWSS Restructing to MSC - Next Steps - Business Plan	\$ 75,000						\$ 75,000		
Primary Disinfection - Evaluation and Preliminary Engineering		\$ 75,000					\$ 75,000	Evaluate options for Primary Disinfections	
Residuals Management EA and Preliminary Engineering		\$ 250,000						Evaluate options for Residuals Management	
Water Loss/Leak Detection Study		\$ 125,000					\$ 125,000		
Operations Contract Assessment		\$ 40,000					\$ 40,000		
Cottam 12-inch main replacement- EA & Prelim Eng			\$ 250,000				\$ 250,000	Evaluation of Options and Prelim Engineering for Replacement of 12-inch WM to Cottam	
Master Plan Update				\$ 100,000			\$ 100,000		
Contingency (un-identified future studies)				\$ 100,000	\$ 150,000	\$ 150,000	\$ 400,000		
Subtotal Studies and Programs	\$ 345,000	\$ 525,000	\$ 285,000	\$ 235,000	\$ 185,000	\$ 185,000	\$ 1,510,000		
Low Lift									
Intake #1 & 2* (Note 5)				\$30,000			\$ 30,000	Maintenance	
Intake # 2 (See Item 16 for more detail)						\$30,000	\$ 30,000	Maintenance	
Intake # 3, shoreline intake				\$100,000			\$ 100,000	Improvements needed to make fully functional maintenance not required	
Coarse Bar Screen (2)							\$ -	replaced in 2008 \$110,000.	
Travelling Screen #1							\$ -	Replaced in 2012	
Travelling Screen #2							\$ -	installed in 1994; upgrades planned for 2019	
Travelling Screen #3			\$120,000				\$ 120,000	cleaned & inspected annually	
Pump Wells(2)							\$ -	rebuilt in 2005	
Low Lift Pump 1 *(Note 1)					\$ 30,000	\$ 30,000	\$ 60,000	rebuilt in 2004, should schedule for rebuild	
Low Lift Pump 2							\$ -	rebuilt in 2006	
Low Lift Pump 3							\$ -	rebuilt in 2007	
Low Lift Pump 4							\$ -		
Low Lift Pump 5	\$ 35,000						\$ 35,000		
Low Lift Pump 6		\$ 35,000					\$ 35,000	rebuilt in 2008	
Low Lift Pump 7			\$ 30,000				\$ 30,000	rebuilt in 2008	
Zebra Mussel Control System					\$ 50,000	\$ 50,000	\$ 100,000	Install zebra mussel control system for Intake #1.	
Pump discharge line							\$ -		
Low Lift Surge Tanks (2) and Compressor System *(Note 6)				\$20,000			\$ 20,000	General maintenance	
Low Lift Diesel Generator							\$ -	O & M Contracted to Genrep	
Low Lift Electrical Transformer Upgrade							\$ -	Electrical Transformer is old and undersized. Needs to be upgraded	
General Building Maintenance & Equipment									
Roadway upgrades to Maintenance Area -			\$ 50,000			\$ 75,000	\$ 125,000	upgrade of roadway to rear plant area	
Asphalt Pavement Sealing - Low lift, treatment plant, CBS	\$ 40,000								
New Maintenance Shop Building							\$ -	new maintenance/vehicle storage area	
Building/Grounds -			\$ 50,000	\$ 50,000	\$ 50,000	\$ 100,000	\$ 250,000	General improvements	
Upgrades to Pole Barn - Roof, electric, etc.							\$ -	Pole Barn roof leaking badly. Electrical needs upsizing	
Clarification System							\$ -		

Clarifier 1 - Retrofit to DAF or Lamella Plates		\$ 800,000				\$ 800,000	Retrofit
Clarifier 2 - Retrofit to DAF or Lamella Plates		\$ 800,000				\$ 800,000	Retrofit
Clarifier 3			\$ 800,000			\$ 800,000	Retrofit
Clarifier 4			\$ 800,000			\$ 800,000	Retrofit
Chemical System						\$ -	
Coagulant Feed System		\$ 150,000			\$ 30,000	\$ 180,000	Upgraded in 2013
Coagulant Storage					\$ 30,000	\$ 30,000	
Coagulant Aid System				\$ 20,000		\$ 20,000	
Carbon Feed System						\$ -	
Carbon Flushing Lines						\$ -	
Tank Mixers (3)						\$ -	System upgraded 2015
Recirc. Pump		\$ 20,000				\$ 20,000	
Slurry Transfer Pumps (2)			\$ 30,000			\$ 30,000	new in 1989
Carbon Feed Pumps (4)					\$ 50,000	\$ 50,000	replaced in 2006
Carbon Scrubber System	\$ 40,000					\$ 40,000	requires upgrade
Filtration						\$ -	
Filter 1						\$ -	Fully upgraded in 2012
Filter 2						\$ -	Upgrades in 2014
Filter 3						\$ -	Fully upgraded in 2013
Filter 4						\$ -	Upgrades in 2014
Filter 5	\$ 70,000					\$ 70,000	installed in 1996
Filter 6		\$ 75,000				\$ 75,000	installed in 1996
Filter 7	\$ 70,000					\$ 70,000	installed in 1996
Filter 8		\$ 75,000				\$ 75,000	installed in 1996
Filter Meter Replacements	\$ 15,000					\$ 15,000	Filter meters need replacement
Valves						\$ -	Large valves need replacement; original equipment
Removal of Microstrainers/ Install of Flooring	\$ 30,000					\$ 30,000	No longer needed as part of treatment process
Pumps						\$ -	
Backwash Pump 1 - Upgrade with VFD						\$ -	Replaced in 2014 - VFD 2015
Backwash Pump 2					\$ 100,000	\$ 100,000	new in 1996
High Lift Pump 1 *(Note 2) Diesel Pump						\$ -	rebuild in 2016
High Lift Pump 2						\$ -	Replaced 2013
High Lift Pump 3						\$ -	rebuilt 2006
High Lift Pump 4	\$ 45,000					\$ 45,000	rebuilt 2007
High Lift Pump 5			\$ 35,000			\$ 35,000	rebuilt 2008
High Lift Pump 6						\$ -	new pump 2013
High Lift Pump 7		\$ 85,000				\$ 85,000	requires replacement, on hold until new pump curves are determined
High Lift Pump 8			\$ 125,000			\$ 125,000	new in 1996, rebuilt 2015
High Lift Pump 9					\$ 125,000	\$ 125,000	new in 1996
High Lift Reservoirs (2)						\$ -	Reservoir Leaking- Requires full cleanout, full inspection,
Wastewater Pumps (2)		\$ 10,000		\$ 10,000		\$ 20,000	RSP #2 replacement
Diesel Generator 1 (170 kW)						\$ -	
Diesel Generator 2 (750 kW)						\$ -	
Diesel Generator Upgrades					\$ 500,000	\$ 500,000	
HL Compressor 1	\$ 15,000					\$ 15,000	Replacement
HL Compressor 2			\$ 15,000			\$ 15,000	Replacement
HL Compressor 3				\$ 15,000	\$ 15,000	\$ 30,000	Replacement
Main Plant Electrical						\$ -	
Electrical/Lighting Upgrades			\$ -			\$ -	Conversion to LED at all facilities
Power Factor Capacitors for Energy Management	\$ 50,000					\$ 50,000	Capacitors are failing. Upgrades needed
Generator B Transfer Switch Automation						\$ -	Health & Safety Risk; currently done manually
Disinfection						\$ -	
Dehumidification						\$ -	to review once filter repairs completed
Chlorine Feed System		\$100,000				\$ 100,000	Evaluation of Conversion to On-Site Hypo Generation (2016). Upgrades to On-Site Hypo (2017)
Ammonia Feed System				\$30,000		\$ 30,000	installed new in 2002
Scrubber System		\$400,000		\$30,000		\$ 430,000	new acid pump installed in 2009
SCADA /Communication/Security							

Software Upgrade	\$100,000						\$	100,000	Wonderware SCADA software upgrade
Security System Install	\$30,000						\$	30,000	Keyless entry security system
System upgrade and Maintenance	\$150,000	\$20,000	\$20,000	\$20,000	\$20,000	\$100,000	\$	330,000	upgrade to maintain currency of system,pending audit
UWSS Wide Communication System Improvements	\$35,000	\$20,000	\$20,000	\$20,000	\$20,000	\$50,000	\$	165,000	improvements to existing communication system
Monitoring Equipment									
Turbidity Meter Replacement -	\$25,000						\$	25,000	Old equipment. All need to be updated
Chlorine Analyzer Replacements	\$20,000	\$20,000					\$	40,000	Old equipment. All need to be updated
Building Maintenance									
Facility Enhancements - General		\$20,000	\$20,000	\$20,000	\$150,000	\$150,000	\$	360,000	Elevator Needed for Access
Windows & Doors Replacement	\$25,000						\$	25,000	asbestos like material present in window caulking, portion to be completed each year until finished
Front Foyer Upgrade -	\$75,000						\$	75,000	Front Foyer entry Roof Structure leaking badly. Structure to be removed and upgraded
New Equipment									
Portable Backup Generator for Low Lift, Water Towers, Emergency							\$	-	New portable Backup generator
Cottam Reservoir & Booster PS									
Reservoir - 2 water mixers							\$	-	repairs to isolation valves, and installation of 2 mixer pumps Completed 2013
Booster Pump 1							\$	-	new in 1996
Booster Pump 2							\$	-	new in 1996
Booster Pump 3							\$	-	new in 1996
Booster Pump 4					\$35,000		\$	35,000	new in 1996
Surge Tanks (2)							\$	-	Insurance inspected in 2009, needs internal inspection
Compressor		\$15,000					\$	15,000	Replaced 2012
Emergency Disinfection System							\$	-	Completed 2014
Cottam MCC PLC Upgrade							\$	-	Completed 2014
Distribution System									
Leamington Tower							\$	-	
Albuna Tower						\$250,000	\$	250,000	New Control Valve on 42inch for Albuna Control
Kingsville Tower			\$750,000				\$	750,000	Safety Upgrades and Painting (2017)
Essex Tower	\$850,000						\$	850,000	Painting (2016)
Distribution System Valves and other Components	\$60,000	\$60,000	\$50,000	\$50,000	\$50,000	\$50,000	\$	320,000	For water main breaks, etc.
Master Water Meter Replacement/Upgrades	\$50,000						\$	50,000	Replacement and Upgrade of Mechanical Water Meters to Magnetic Water Meters
Cottam 12-inch main replacement- EA		\$250,000					\$	250,000	To be evaluated
Wastewater Treatment System									
Waste Lagoon Excavation - north lagoon			\$100,000				\$	100,000	
Waste Lagoon Excavation - south lagoon	\$100,000						\$	100,000	
Lagoon Residuals Materials Management	\$100,000	\$75,000	\$75,000	\$50,000	\$50,000	\$50,000	\$	400,000	
NEW CAPITAL WORKS									
Installation of On-Site Hypo Generation for Main Disinfection							\$	-	On-site Hypochlorite Generation System for Primary
Residuals management facility				\$2,500,000			\$	2,500,000	Residuals management facility to replace lagoons
Replacement of 12-inch Cottam Water Main					\$5,000,000		\$	5,000,000	

Subtotal Capital and Major Maintenance \$2,030,000 \$3,030,000 \$3,075,000 \$405,000 \$590,000 \$1,725,000 \$ 10,855,000

Subtotal Studies and Programs \$345,000 \$525,000 \$285,000 \$235,000 \$185,000 \$185,000 \$ 1,760,000

TOTAL CAPITAL AND STUDIES \$2,375,000 \$3,555,000 \$3,360,000 \$640,000 \$775,000 \$1,910,000 \$ 12,615,000

Total New Capital Works \$0 \$0 \$0 \$2,500,000 \$5,000,000 \$0 \$ 7,500,000

Contingency \$150,000

TOTAL CAPITAL, STUDIES AND NEW CAPITAL \$ 2,525,000 \$ 3,555,000 \$ 3,360,000 \$ 3,140,000 \$ 5,775,000 \$ 1,910,000 \$ 20,265,000

UW/31/16

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

From: Rodney Bouchard, Union Water Manager

Date: November 16, 2016

Re: Payments for the UWSS from October 14 to November 10, 2016



Aim:

To provide the Board with a copy of payments made by the Union Water Supply System from October 14 to November 10, 2016.

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\2016\uw31-16 payments from october to november 2016.docx



Vendor : 001410 To PT00000098
Batch : All
Department : All

Cheque Print Date : 19-Oct-2016 To 19-Oct-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					
010030 ADVANCE BUSINESS SYSTEMS (WINDSOR INC)					
575766	LAPTOP		654 30-Sep-2016	20-Oct-2016	
70-5-0700-7250	002070 002112 Tech Hardware Purchases (non TCA)				2,649.85
080250 HYDRO ONE NETWORKS INC					
200141677460	SEP/16 HYDRO - RUTHVEN WTP		657 05-Oct-2016	20-Oct-2016	
70-5-0700-7420	002073 Electricity				76,248.43
200141680692	SEP/16 HYDRO - LOW LIFT		657 05-Oct-2016	20-Oct-2016	
70-5-0700-7420	002073 Electricity				41,393.24
200141687564	SEP/16 HYDRO - METER#25		657 13-Oct-2016	20-Oct-2016	
70-5-0700-7420	002073 Electricity				34.18
200141690190	SEP/16 HYDRO - METER#26		657 06-Oct-2016	20-Oct-2016	
70-5-0700-7420	002073 Electricity				122.05
200208899066	SEP/16 HYDRO&SET-UP CHARGE - METER#16		657 13-Oct-2016	20-Oct-2016	
70-5-0700-7420	002073 Electricity				176.11
110083 KINGSVILLE ROOFING (2011)					
2596	CHLORINE BUILDING ROOF		657 12-Oct-2016	20-Oct-2016	
70-7-0700-8745	700020 Treatment Plant				13,526.10
180325 RICOH CANADA INC					
SCO91282483	COPIER CONTRACT AUG23-SEP30		657 30-Sep-2016	20-Oct-2016	
70-5-0700-7010	002070 002060 Office Supplies				80.63
210120 UNION GAS LTD					
SEP-OCT16 17 9-0.0M3 GAS - COTTAM BOOSTER STN			657 13-Oct-2016	20-Oct-2016	
70-5-0700-7410	002073 Gas				23.73
Department Totals :					134,254.32

Council/Board Report By Dept-(Computer)



Vendor : 001410 To PT00000098

Batch : All

Department : All

Cheque Print Date : 27-Oct-2016 To 28-Oct-2016

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								
200152134969	OCT16 HYDRO - METER #17					676	20-Oct-2016	27-Oct-2016	35.61
70-5-0700-7420	002073	Electricity							
Department Totals :								35.61	



Vendor : 001410 To PT00000101
 Batch : All
 Department : All

Cheque Print Date : 03-Nov-2016 To 03-Nov-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-SEP16	9-16KWH - METER#4	696	21-Oct-2016	03-Nov-2016	
70-5-0700-7420	002073 Electricity				42.60
080250 HYDRO ONE NETWORKS INC					
200141680894	SEP/16 HYDRO - LEAM. WATER TOWER	696	27-Oct-2016	03-Nov-2016	
70-5-0700-7420	002073 Electricity				288.63
200141681706	SEP/16 HYDRO - METER#2	696	26-Oct-2016	03-Nov-2016	
70-5-0700-7420	002073 Electricity				37.93
200141683019	SEP/16 HYDRO - METER#3	696	27-Oct-2016	03-Nov-2016	
70-5-0700-7420	002073 Electricity				39.73
200141683423	SEP/16 HYDRO - METER#6	696	27-Oct-2016	03-Nov-2016	
70-5-0700-7420	002073 Electricity				34.56
200141683524	SEP/16 HYDRO - METER#8	696	26-Oct-2016	03-Nov-2016	
70-5-0700-7420	002073 Electricity				34.56
200141683726	SEP/16 HYDRO - METER#15	696	24-Oct-2016	03-Nov-2016	
70-5-0700-7420	002073 Electricity				34.21
200141687362	SEP/16 HYDRO - METER#22	696	26-Oct-2016	03-Nov-2016	
70-5-0700-7420	002073 Electricity				63.26
200141687766	SEP/16 HYDRO - METER#29	696	26-Oct-2016	03-Nov-2016	
70-5-0700-7420	002073 Electricity				35.83
200141687867	SEP/16 HYDRO - METER#24	696	26-Oct-2016	03-Nov-2016	
70-5-0700-7420	002073 Electricity				34.18
140100 NEDCO-DIV. OF REXEL CANADA ELECTRICAL INC					
4833835	HEATERS	696	21-Oct-2016	03-Nov-2016	
70-7-0700-8700	Albuna Water Tower				1,872.10
210120 UNION GAS LTD					
SEP-OCT16 20	268.278M3 GAS - RUTHVEN WTP	696	24-Oct-2016	03-Nov-2016	
70-5-0700-7410	002073 Gas				155.49
SEP-OCT16 21	0.0M3 GAS - LOW LIFT	696	26-Oct-2016	03-Nov-2016	
70-5-0700-7410	002073 Gas				23.73
Department Totals :					2,696.81