



**JOINT BOARD OF
MANAGEMENT**
Wednesday, December 15, 2021
9:00 AM
Via Zoom

AGENDA

A. Call to Order:

B. Disclosures of Pecuniary Interest:

C. Approval of Minutes:

Minutes of the meeting of the Union Water Supply System Joint Board of Management Meeting held Wednesday, November 17, 2021
Pages 3 - 6

D. Business Arising Out of the Minutes

E. Items for Consideration:

1. UW/38/21 dated December 10, 2021 re: Status Update of UWSS Operations & Maintenance Activities and Capital Works to December 10, 2021
Pages 7 - 24
2. UW/39/21 dated December 10, 2021 re: 2022 UWSS Draft Operations and Capital Budget
Pages 25 - 34

2022 UWSS Draft Operations and Capital Budget Tables and Details
Pages 35 - 40

UWSS 6 Year Capital Plan Tables and Details
Pages 41 - 44
3. 2022 Dates for the Union Water Supply System Joint Board of Management Meetings
Pages 45
4. UW/40/21 dated December 10, 2021 re: Payments from November 9 to December 10, 2021
Pages 46 - 50

December 15, 2021

Union Water Supply System Joint Board of Management Agenda

2

F. **New Business:**

G. **Adjournment:**

H. **Date of Next Meeting:** January 19, 2022, 9:00 am via Zoom

/kmj

JOINT BOARD OF MANAGEMENT

Wednesday, November 17, 2021

9:00 AM

Virtually in Zoom



MINUTES

Members Present Mayor MacDonald (Vice-chair); Deputy Mayor Verbeke, Councillors
Dunn, Hammond, Jones - Leamington
Mayor Santos (Chair), Councillor DeYong, Gaffan (alternate)
Patterson - Kingsville
Councillor VanderDoelen - Essex
Councillor Walstedt - Lakeshore

Members Absent Councillor Tiessen - Leamington
Deputy Mayor Queen - Kingsville

Also in Attendance: Rodney Bouchard, Union Water Supply System Manager
Christine Johnson, Recording Secretary

Municipal Staff Present: Kevin Girard - Town of Essex
Albert Dionne, Krystal Kalbol - Municipality of Lakeshore
Shannon Belleau - Municipality of Leamington

OCWA Staff Present: Dale Dillen
Ken Penney, Dave Jubenville

Call to Order: 9:01 am

Disclosure of Pecuniary Interest: none

Adoption of Board Minutes:

The Chair called for the adoption of the previous month's minutes. Councillor Walstedt noted that Mayor Bain's name had been recorded as Deputy Mayor. The Recording Secretary apologized and would make the necessary amendment.

No. UW-63-21

Moved by: Deputy Mayor Verbeke

Seconded by: Councillor Dunn

That the Minutes of the UWSS Joint Board of Management meeting of Wednesday, October 20, 2021 is received as amended.

Carried**Business Arising out of Minutes:**

There was none

Report UW/36/21 dated November 10, 2021 re: Status Update of the UWSS Operations and Maintenance Activities and Capital Works to November 10, 2021

The Manager notes that this meeting is expected to be very quick, as the last several meetings had been going long.

The Manager indicates that the DAF project is moving along quite well. The rehabilitation, recoating and waterproofing of the basin is complete and blowdown chamber rehabilitation and recoating is almost complete. He notes that work over the next four (4) weeks will focus on below slab utility piping for the auxiliary building. He explains that things are basically on track expect for a small delay in materials. He also notes that attached to this report is a copy of the engineer's latest weekly progress report, which provides a great deal of details on how the project is moving along.

The Manager reminds members of the Board that Summa Engineering had been retained in the Spring of 2021 to design and build a new PLC cabinet for the Low Lift. He further explains that Summa attended the site to install the new cabinet on October 25-29. This new panel allows for more room at the Low Lift and was a much needed upgrade.

The Manager then explains that two (2) new YSI EX02 multiparameter monitoring instruments were purchased and installed at the Low Lift. He also reminds members of the Board that UWSS has two (2) water intakes in Lake Erie, one (1) at 1 km out and one (1) at 0.5km out, and both can supply the WTP with water supply. This new instrumentation is attached to the new SCADA system and will not monitor parameters including Blue Green Algae, Chlorophyll, Dissolved Oxygen and total dissolved solids. This data will be seen by the operators in real time and allow operators to make necessary adjustments as water conditions change.

On November 9, 2021 half of the high lift pumping system was shut down to allow for a new isolation valve to be installed. The Manager explains that this will allow for improved pump operation.

The Manager indicates that a new water quality instrument has been ordered. Pipe::scan will be installed on the outlet pipe at Albuna Water Tower (AWT). He notes that this instrument is on site for a trial basis only and further explains the instrument is capable of monitoring drinking water quality in pipes under pressure and includes monitoring of turbidity, colour, chlorine, pH/Redox, conductivity, temperature and pressure. If this is successful there is consideration for future use of pipes in the distribution system, which could monitor pH or corrosive issues and all while being monitored in real time for operations staff.

The Manager confirms that the operations staff have completed the valve program for 2021 attempting to exercise 106 valves. Only 85 were exercised as others may have had issues such as seized valve stems, debris over valve boxes and staff are now developing a plan to address these issues.

Minutes of the Union Water Supply System Joint Board of Management

Date: Wednesday, November 17, 2021

Page 3

The Manager makes mention of another item not on the report. He explains that the laboratory cabinets have arrived and are to be installed in the new lab, after which the older lab will have equipment moved so that the old lab can be converted into a needed washroom.

Finally, the Manager notes that the flows are still up over last year and the four (4) year average.

No. UW-64-21

Moved by: Councillor Walstedt

Seconded by: Councillor Jones

That Report UW/36/21 dated November 10, 2021 re: Status Update of the UWSS Operations and Maintenance Activities and Capital Words to November 10, 2021 is received.

Carried

Report UW/37/21 dated November 10, 2021 re: Payments from end of September to November 10, 2021

No. UW-65-21

Moved by: Councillor Hammond

Seconded by: Councillor Patterson

That report UW/37/21 dated November 10, 2021 re: Payments from end of September to November 10, 2021 is received.

Carried

New Business:

The Manager notes that he is currently working on the Budget for the 2022 year. He intends to provide Board members with a Budget package a week or two (2) prior to the December 15th Board meeting in order to allow for time to review.

Councillor DeYong notes that the concern over the lights on the Kingsville Water Tower was resolved quickly and appreciates staff moving so quickly to put the lights on a timer.

Councillor Hammond refers back to page 25 of the agenda and asks about the corrosion showing inside the pipe (DAF project). The Manager notes that while there is corrosion, it is not extended deep inside the pipe, but rather right near the entrance. He further explains that a coating specialist has been hired to refurbish this section.

Councillor Patterson is glad to see that a coating expert is assisting with the corrosion, as that has always been a concern, that a piece of corrosion will break off and stain the water. He notes that control at the beginning of the piping infrastructure is a good thing. He also notes the upcoming Kingsville Santa parade.

Minutes of the Union Water Supply System Joint Board of Management

Date: Wednesday, November 17, 2021

Page 4

The Chair thanks Councillor Patterson

Adjournment:

No. UW/66/21

Moved by: Councillor DeYong

Seconded by: Councillor VanderDoelen

Time: 9:15 am

Date of Next Meeting: December 15th, 2021 at 9 am

/kmj

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

From: Rodney Bouchard, UWSS General Manager

Date: December 10, 2021

Re: Status Update of UWSS Operations & Maintenance Activities and Capital
Works to December 10, 2021



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 November 17, 2021.

Discussion:

The UWSS General 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. DAF Phase 1 Update: Below grade piping work for the DAF utility building is complete. Contractor is getting ready to pour the floor slab for the new building which will be done during the week of December 13th. Clarifier #2 blow down chamber walls and roof are complete. New stairs for the chamber will be installed as will new valves. Piping work in the treatment plant valve room is underway for the DAF system. Electrical wiring and upgrades for the DAF system is also underway. The work for next 4 weeks will focus on pouring walls for the new building, piping work in the valve chamber, and installation of underground services. A copy of the weekly progress report for the week ending December 3rd, 2021, prepared by UWSS' consultant (Associated Engineering) site inspector, is attached to this report.
3. Summa Engineering was on site December 7th and 8th to perform annual hardware maintenance on the new SCADA system. Minor updates to the system were also completed.
4. Filters 1-4 for have been shut down and isolated. All influent piping has been drained to prepare for the valve room piping work portion of the DAF project. This work is anticipated to be complete in early February 2022.
5. Half of the high lift pumping system was shut down on November 9th to install a new isolation valve for High Lift pump #6. This new isolation valve will allow maintenance staff to upgrade a check valve for this pump to improve pump operation.

Re: UW/38/21 - Status Update of UWSS Operations & Maintenance Activities and Capital Works to December 10, 2021

6. Low Lift Pump #7 was removed by OCWA staff for a complete overhaul. The motor will be inspected and rehabilitated by Phasor Industrial. Rehabilitation of pump components will be completed by OCWA maintenance staff. Anticipated reinstall date is February 2022.
7. The new laboratory is complete. All instruments and equipment from the old lab have been moved. Work is underway to remove the cabinets from the old laboratory so that this area can be upgraded to a new bathroom for the administration area of the treatment plant building.
8. Effective December 1st, 2021 OCWA Operations at Union Water are now using an electronic plant log book called e.RIS Cloud from Eramosa engineering. This new electronic log book is an improvement over the paper log book and allows for information queries and categorization.
9. A water main break occurred on the 12-inch watermain east of 540 County Rd 34 on Sunday Dec 5th. The watermain was offline for approximately 8 hours while Town of Kingsville staff and contractors repaired the break.

The first chart shows comparative flows for 2017 through 2021 in Mega Litres (ML) and the second chart shows Millions of Imperial Gallons (MIG) for the period January 1st to December 9th, 2021.

	2017	2018	2019	2020	2021
Flow to Date (ML)	14,672.35	15,599.92	16,216.88	18,392.75	19,125.71
Max Day (ML)	75.57	82.48	85.40	97.33	93.83
Min Day (ML)	20.73	23.56	20.13	25.44	26.74
Average Day (ML)	42.78	45.48	47.28	53.47	55.76
No of Days	343	343	343	344	343

	2017	2018	2019	2020	2021
Flow to Date (MG)	3227.53	3431.57	3567.29	4045.92	4208.44
Max Day (MGD)	16.62	18.14	18.79	21.41	20.64
Min Day (MGD)	4.56	5.18	4.43	5.60	5.88
Average Day (MGD)	9.41	10.00	10.40	11.76	12.27
No of Days	343	343	343	344	343

Flows to date are up 732.96 ML (162.52 MIG) or 4% from last year. The 2021 flows to date are up 17.9% over the previous 4 year average.

Re: UW/38/21 - Status Update of UWSS Operations & Maintenance Activities and
Capital Works to December 10, 2021

Recommendation:

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

Respectfully submitted,



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

Filename: t:\union wtr\reports to board\2021\uw38-21 uwss operations report for december 2021.docx

Prepared By: Sommer Lee, SI/CA **Date:** 2021-12-06 **File:** 2020-5461.05.05
Report No.: 12 **Proj. No.** 2020-5461
Report Period: 2021-11-29 to 2021-12-03
Client : Union Water Supply System (UWSS)
Client Contact : Rodney Bouchard
Project: UWSS Ruthven WTP DAF Retrofit Project Phase 1

PROGRESS REPORT

TOTAL DAYS ON SITE THIS WEEK	DAYS LOST TO WEATHER THIS WEEK	REMAINING DAYS TO CONTRACT COMPLETION
5	0	As of 2021-12-06 , 167 days to contract completion (Original Contract Completion 2022-05-17 + 5 days lost to weather → Revised Contract Completion of 2022-05-22)

KEY EQUIPMENT ON SITE

QTY.	NAME	USE	DAYS IN OPERATION
1	Crawler Loader	N/A	N/A
1	Crane	N/A	N/A
1	Skid Steer	N/A	N/A
1	Excavator	N/A	N/A
1	Plate Compactor	N/A	N/A
1	Bulldozer	N/A	N/A
1	Dump Truck	N/A	N/A
1	Mini Excavator	Mini Excavator with Bucket: Auxiliary Building – Foundation Drain	2021-12-03
1	Telescopic Handler	Clarifier No. 2 Works	2021-11-29 to 2021-11-30
	Miscellaneous Tools & Equipment		2021-11-29 to 2021-12-03

KEY DELIVERIES TO SITE

DATE	MATERIALS / EQUIPMENT DELIVERED	NOTES
	• N/A	

WORK COMPLETED

DATE & WEATHER	SUMMARY OF WORK	ASSOCIATED PHOTOS
2021-11-29 Sunny 3°C/-1°C	<ul style="list-style-type: none"> Maple working on installing electrical conduit and plumbing within the Auxiliary Building. Velez stripped wall formwork – stripped 300 mm of forms from top of wall on exterior of wall, and entirety of interior wall formwork. 	1 – 5
2021-11-30 Sunny 5°C/-1°C	<ul style="list-style-type: none"> Maple complete installing in/below-slab plumbing within the Auxiliary Building (floor drains, cleanouts, and P traps). Peter Valore and Jake Carter, Building Inspectors (Town of Kingsville), on site to inspect the plumbing within the Auxiliary Building. No concerns noted. Velez working on lining the top slab formwork of Clarifier No. 2 Blowdown Chamber. Holes drilled in the existing concrete wall of the 	6 – 15

Submitted on 2021-12-06

	Clarifier for 20M rebar dowels in two horizontal rows with drilled holes spaced approximately 200 mm apart.	
2021-12-01 Mostly Sunny 6°C/0°C	<ul style="list-style-type: none"> • Velez setting up and leveling the propping system for the top suspended slab formwork for Clarifier No. 2 Blowdown Chamber. • Trenching underway by Maple for the recirculation piping under slab of the Auxiliary Building. • Brevon Concrete Cutting and Coring on site to scan the Valve Room and mark out any cast-in-place metal and pipe within the ceiling and east wall in preparation for the Valve Room pipe work. 	16 – 20
2021-12-02 Sunny 11°C/-1°C	<ul style="list-style-type: none"> • Velez completed installing rebar and dowels for the top suspended slab for Clarifier No. 2 Blowdown Chamber. • Maple installing ceiling anchoring plates in the Valve Room in preparation for the pipe removals. 	21 – 40
2021-12-03 Snow Showers 4°C/0°C	<ul style="list-style-type: none"> • Velez and Lakeshore/Lake Erie Concrete Supply conducting a Concrete Pour for the top suspended slab for Clarifier No. 2 Blowdown Chamber. Golder on site for concrete testing – slump, air and moisture are within the specification. • Velez and Lakeshore/Lake Erie Concrete conducting a Concrete Pour for a mud mat for the recirculation piping that will be placed under the Auxiliary Building slab. • NJS repairing the damaged clay tile pipe damaged from 2021-11-26 – removing damaged clay tile pipe and replacing with geotextile, clearstone, and 300 mm perforated corrugated HDPE pipe. • NJS repacking the roadway where the excavation was completed on 2021-11-26 for the foundation drain crossing the roadway. NJS cleaning the roadway north of the Auxiliary Building of mud and re-packing the roadway. • Per Construction Memo 03, NJS installing 5 m of exfiltration trench with geotextile, clearstone (300 mm surrounding), and 150 mm perforated corrugated HDPE pipe alongside the existing clay tile storm drain north of the Auxiliary Building. The exfiltration trench was filled with earth fill and compacted with the plate compactor. 	41 – 50

KEY CONTRACTORS AND SUBCONTRACTORS ON SITE

- Maple Reinders Constructors Ltd. (Maple), 2021-11-29 to 2021-12-03
- NJS Excavation (NJS), 2021-12-03
- Velez Construction (Velez), 2021-11-29 to 2021-12-03
- Tarpon, N/A
- Lakeshore Concrete Supply, 2021-12-03
- AGF, N/A
- KT Crane, N/A
- Moir Crane Service, N/A
- Brevon Concrete Cutting and Coring, 2021-12-01

Submitted on 2021-12-06

VISITORS AND PURPOSE OF VISIT:

- Peter Valore, Building Inspector and By-law Enforcement (Town of Kingsville) – Underslab Plumbing for Auxiliary Building (2021-11-30)
- Jake Carter, Building Inspector and By-law Enforcement (Town of Kingsville) – Underslab Plumbing for Auxiliary Building (2021-11-30)
- Christopher Hughes, Field Technician (Golder) – Concrete Test for Clarifier No. 2 Blowdown Chamber Top Slab (2021-12-03)

REQUESTED REVISIONS OR INTERPRETATIONS, FIELD INSTRUCTIONS, CHANGE DIRECTIVES

- RFI 029 – Restrained Coupling (Received 2021-12-03)

NONCONFORMING WORK REPORTED TO CONTRACTOR:

- None to note during this period.

ISSUES THAT MAY LEAD TO DELAYS IN PROJECT DELIVERY:

- None to note during this period.

ATTACHMENTS AND OTHER INSPECTION/OBSERVATION REPORTS:

- Building Inspection Report – Auxiliary Building Plumbing, Town of Kingsville (2021-12-02)

PHOTOS



1. Auxiliary Building (2021-11-29)



2. Clarifier No. 2 – Removed Walkway (2021-11-29)



3. Auxiliary Building Electrical Conduit for Pull Box (2021-11-29)



4. Auxiliary Building – Saturation Piping for DAF No. 1 (2021-11-29)



5. Auxiliary Building – Saturation Piping for DAF No. 1 and Plumbing (2021-11-29)



6. Auxiliary Building (2021-11-30)



7. Auxiliary Building – Plumbing in Northwest Corner (2021-11-30)



8. Auxiliary Building – Plumbing in Northwest Corner (2021-11-30)



9. Auxiliary Building – Plumbing: P Trap (2021-11-30)



10. Auxiliary Building – Plumbing along East Wall (2021-11-30)



11. Auxiliary Building – Plumbing in Northeast Corner (2021-11-30)



12. Auxiliary Building – Plumbing in Northwest Corner (2021-11-30)



13. Auxiliary Building (2021-11-30)



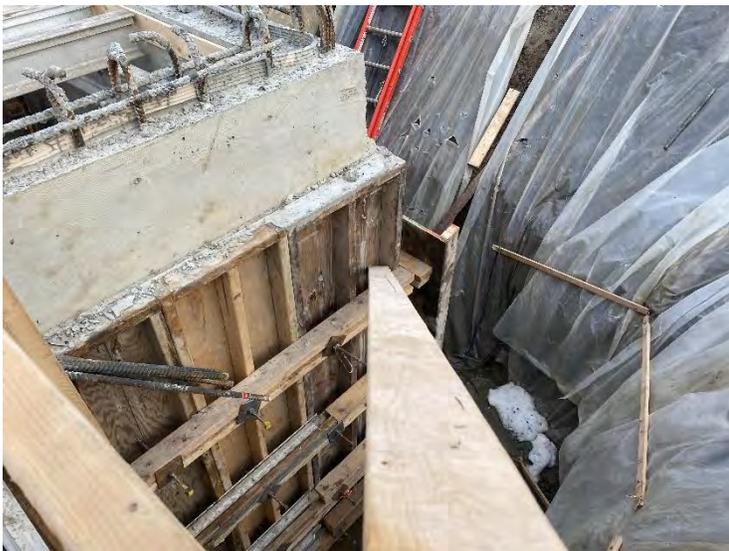
14. Clarifier No. 2 Blowdown Chamber Stripped Forms – Interior (2021-11-30)



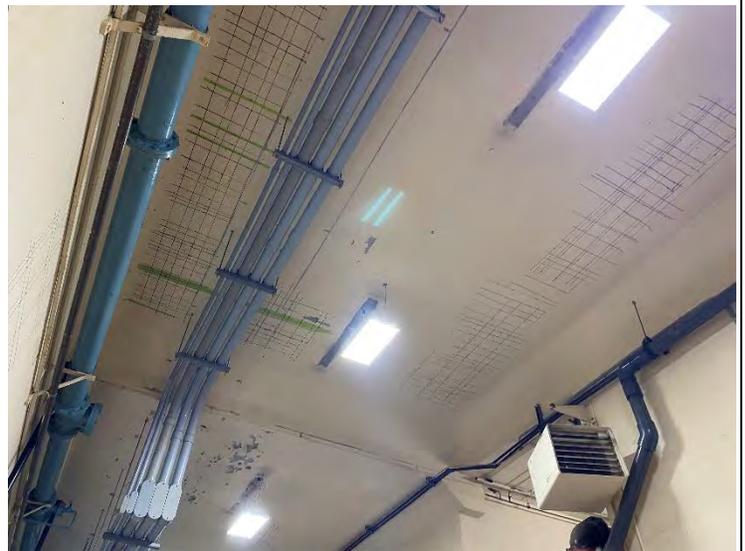
15. Clarifier No. 2 Blowdown Chamber Stripped Forms - Interior (2021-11-30)



16. Clarifier No. 2 Blowdown Chamber Drilled Holes for Dowels (2021-12-01)



17. Clarifier No. 2 Blowdown Chamber (2021-12-01)



18. Valve Room for Clarifier No. 2: Ceiling Scan (2021-12-01)



19. Clarifier No. 2 Blowdown Chamber (2021-12-01)



20. Auxiliary Building – Trenching for Recirculation Piping (2021-12-01)



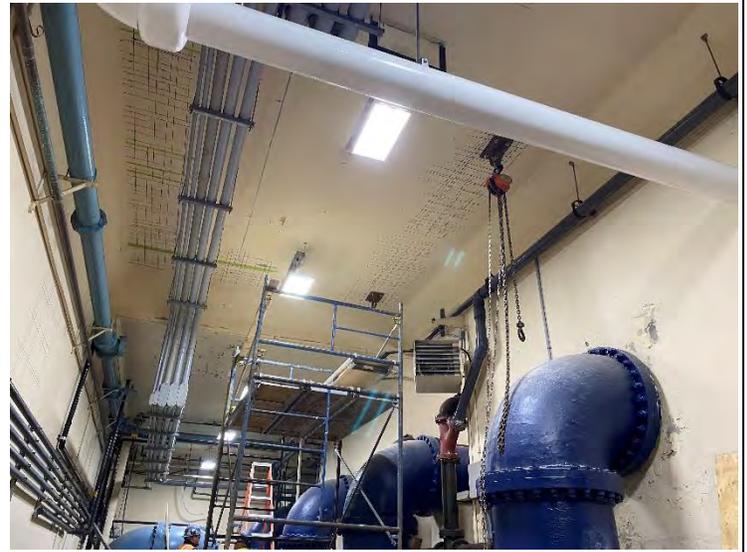
21. Auxiliary Building (2021-12-02)



22. Valve Room for Clarifier No. 2: Ceiling and Wall Scan (2021-12-02)



23. Valve Room for Clarifier No. 2: Ceiling and Wall Scan (2021-12-02)



24. Valve Room for Clarifier No. 2: Ceiling and Wall Scan (2021-12-02)



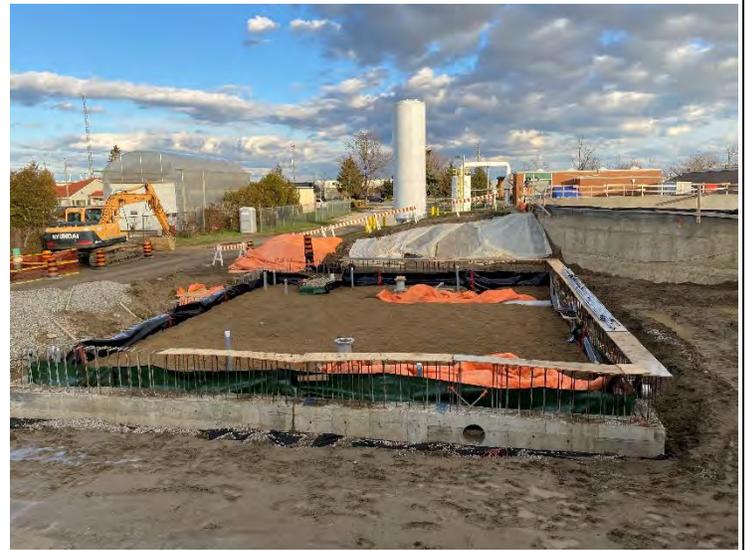
25. Valve Room for Clarifier No. 2: Ceiling and Wall Scan (2021-12-02)



26. Valve Room for Clarifier No. 2: Ceiling and Wall Scan (2021-12-02)



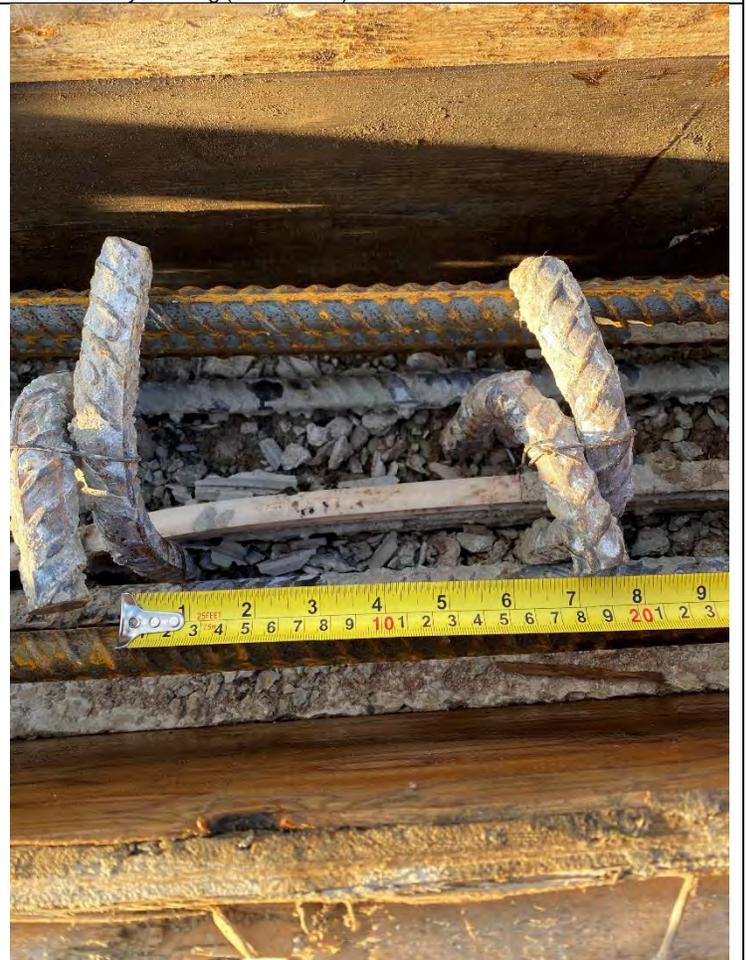
27. Auxiliary Building (2021-12-02)



28. Auxiliary Building (2021-12-02)



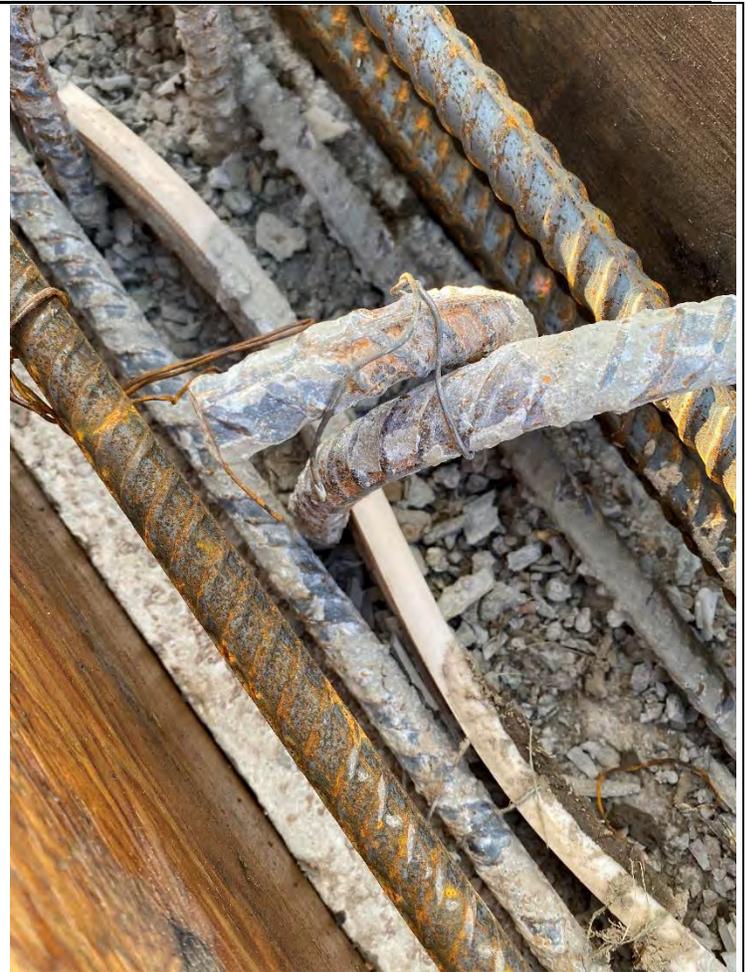
29. Auxiliary Building (2021-12-02)



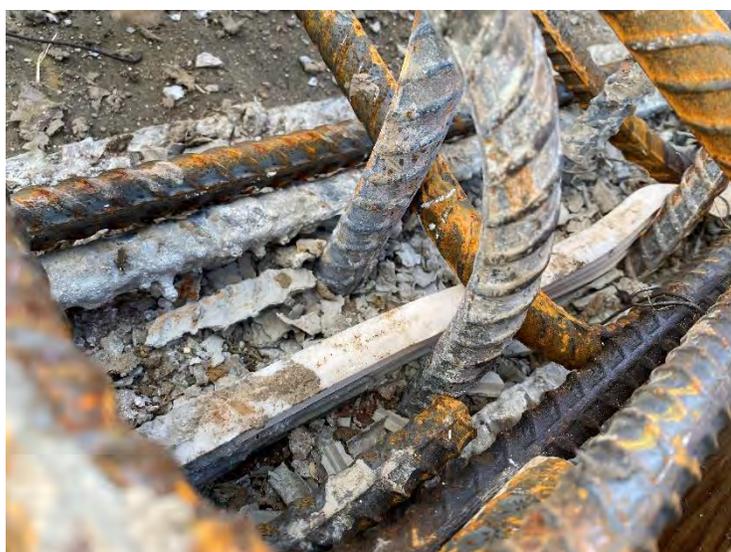
30. Clarifier No. 2 Blowdown Chamber – Rebar for Top Suspended Slab (Pre Compressed Air Cleanout) (2021-12-02)



31. Clarifier No. 2 Blowdown Chamber – Rebar for Top Suspended Slab (Pre Compressed Air Cleanout) (2021-12-02)



32. Clarifier No. 2 Blowdown Chamber – Rebar for Top Suspended Slab (Pre Compressed Air Cleanout) (2021-12-02)



33. Clarifier No. 2 Blowdown Chamber – Rebar for Top Suspended Slab (Pre Compressed Air Cleanout) (2021-12-02)



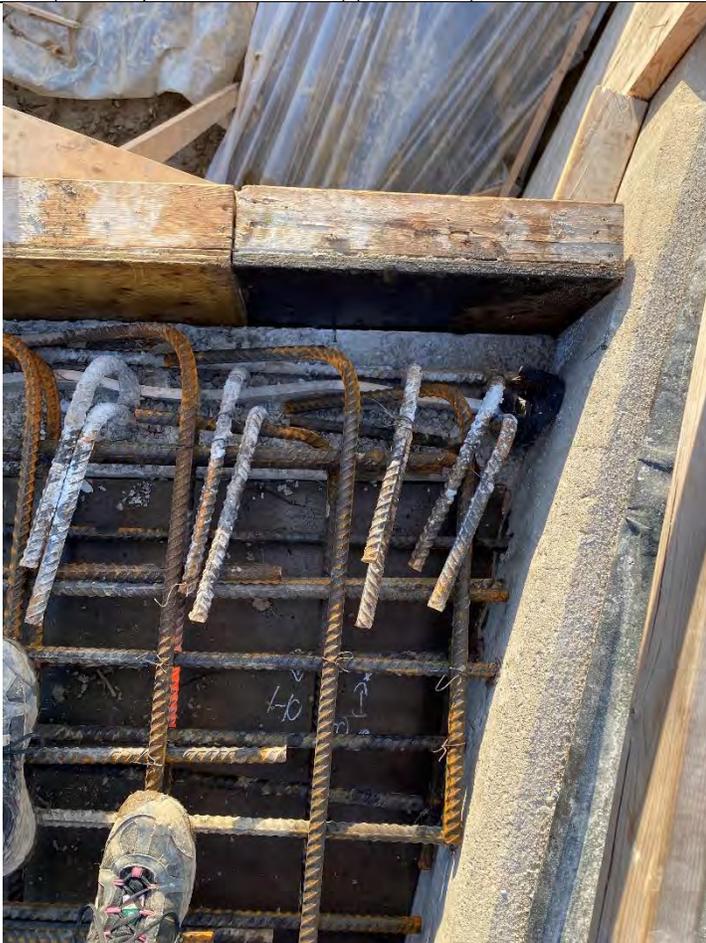
34. Clarifier No. 2 Blowdown Chamber – Rebar for Top Suspended Slab and Access (Pre Compressed Air Cleanout) (2021-12-02)



35. Clarifier No. 2 Blowdown Chamber – Rebar for Top Suspended Slab (Pre Compressed Air Cleanout) (2021-12-02)



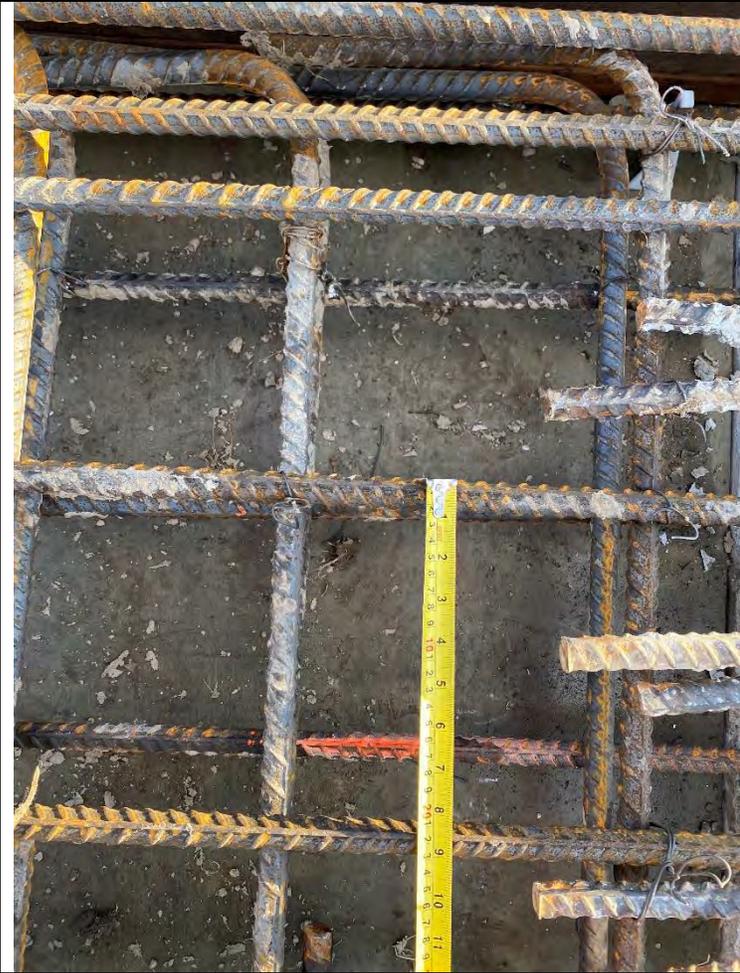
36. Clarifier No. 2 Blowdown Chamber – Rebar for Top Suspended Slab (Pre Compressed Air Cleanout) (2021-12-02)



37. Clarifier No. 2 Blowdown Chamber – Rebar for Top Suspended Slab (Pre Compressed Air Cleanout) (2021-12-02)



38. Clarifier No. 2 Blowdown Chamber – Rebar for Top Suspended Slab (Pre Compressed Air Cleanout) (2021-12-02)



39. Clarifier No. 2 Blowdown Chamber – Rebar for Top Suspended Slab (Pre Compressed Air Cleanout) (2021-12-02)



40. Clarifier No. 2 Blowdown Chamber – Equipment Access Hatch (2021-12-02)



41. Concrete Pour for Clarifier No. 2 Blowdown Chamber – Top Suspended Slab (2021-12-03)



42. Concrete Pour for Auxiliary Building: Mud Mat for Recirculation Piping (2021-12-03)



43. Auxiliary Building Foundation Drain – 300 mm Perforated Corrugated Pipe with Clearstone Surrounding on Geotextile (2021-12-03)



44. Auxiliary Building Foundation Drain – 300 mm Perforated Corrugated Pipe with Clearstone Surrounding on Geotextile (2021-12-03)



45. Auxiliary Building Foundation Drain – 300 mm Perforated Corrugated Pipe with Clearstone Surrounding on Geotextile (2021-12-03)



46. Auxiliary Building Foundation Drain – Covered with Earth Fill (2021-12-03)



47. Auxiliary Building Foundation Drain – Covered with Earth Fill and Compacted (2021-12-03)



48. Roadway Repacked (2021-12-03)



49. Auxiliary Building – Covered with Tarp (2021-12-03)



50. Demolition of Clarifier No. 2 Walkway / Beams (2021-12-03)

UW/39/21

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

FROM: Rodney Bouchard, Union Water Manager

DATE: December 8, 2021

RE: Proposed 2022 UWSS Operations and Capital Budget Report



RECOMMENDATION

That the Union Water Supply System Joint Board of Management (UWSS Board) adopts the Proposed 2022 Operational and Capital Budget for the Union Water Supply System;

And further, that the UWSS Board adopts an increase of \$0.0269 per cubic metre for the UWSS Wholesale Rate. The new proposed UWSS Wholesale Rate for 2022 would be \$0.6985 per cubic meter.

And further, that the UWSS General Manager be provided the delegated authority to implement the 2022 UWSS Operations & Maintenance Budget and 2022 Capital Program.

REPORT HIGHLIGHTS

- Potable water demand from UWSS is anticipated to be approximately 20,565,000 m³ (4,524,300,000 imperial gallons) for 2020. This represents a 1.5% increase in water demand over 2021.
- An increase of \$0.0269 per cubic meter is proposed for the UWSS Wholesale Rate. The new proposed Rate 1 wholesale rate for 2022 would be \$0.6985 per cubic meter.
- UWSS Revenue for 2022 is estimated at \$14,943,000 of which \$14,365,000 is from wholesale of water to municipalities, \$413,000 from investment revenue, \$22,000 from Sundry Revenue and \$143,000 from property rental revenue.
- Operational and Debt Service Expenditures for 2022 are estimated at \$8,871,000. This includes \$3,533,000 for OCWA Operations and Maintenance services and \$2,389,596 for the Sunlife Loan (former MFP Debt).
- A budget of \$340,000 has been established for proposed 2022 Operational Studies and Programs.
- 2022 Revenue versus Operational and Debt Service Expenditures are anticipate to result in a surplus of approximately \$6,071,000 for 2022 Fiscal Year;
- A Capital Program of \$8,340,000 is proposed for 2022. This includes continuation of the DAF Phase 1 Project ;
- A draw of \$2,268,000 from the UWSS Reserves would be needed to fund the 2022 Capital Program.
- Projected total UWSS Reserves for January 1, 2022 are estimated at \$19,288,000, including \$11,060,000 in the Rate Stabilization Reserve

December 8, 2021

Re: Proposed 2022 UWSS Operations and Capital Budget

BACKGROUND:

Since the Transfer Order of January 2001, the Board is responsible for considering and approving an annual budget for the Union Water Supply System. The format of the budget is generally the same as that previously prepared for 2021.

This draft budget is being presented to the UWSS board for consideration and approval. The draft 2022 budget is outlined to provide details in regards to the following:

- Anticipated revenue for 2022 from wholesale of water to the partner municipalities and from other revenue sources;
- Anticipated operating expenditures for 2022 including estimated costs for operation of the system by the Ontario Clean Water Agency (OCWA), under its contract with UWSS;
- Proposed Capital Works program for 2022 for UWSS;
- Forecasted Operational Expenditures and Capital Works program for 2022-2027.

DISCUSSION:

The draft 2022 Budget documents 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 Budget documents reflect the following:

- The operations and maintenance costs associated with the 5-Year Cost Plus Operations and Maintenance Agreement between UWSS and OCWA that came into effect on July 1, 2019;
- Capital Projects that were approved and initiated in previous years that are on-going into 2022.

Details regarding the budget components are discussed below.

OPERATING EXPENDITURES

Expenditures for the Union Water Supply System (UWSS) include *Fixed Expenditures* such as the OCWA operations contract, administration, and debt service and *Programs and Studies* that are proposed for 2022 to identify cost effective improvements for the operation of the UWSS. The total projected expenditures for 2022 is budgeted at approximately at \$8,871,000.

December 8, 2021

Re: Proposed 2022 UWSS Operations and Capital Budget

Fixed Expenditures

Fixed expenditures for the budget process include the OCWA Operations Budget, UWSS Administrative Budget, and Debt Service. The total fixed expenditures for 2022 is budgeted at \$8,531,230. The fixed expenditures consist of the following components:

OCWA Operations Budget:	\$3,533,115
UWSS Administrative Budget:	\$ 432,639
Legal/Professional Fees:	\$ 150,000
Leamington Administration Support:	\$ 50,000
Residuals Ponds Maintenance:	\$ 175,000
CO2 Gas Bulk Purchase Contract:	\$ 110,000
Watermain Repairs:	\$ 100,000
Corrosion Monitoring Program:	\$ 50,000
Property Taxes:	\$ 159,500
Electricity and Natural Gas:	<u>\$ 1,381,380</u>
<i>Total Operations, Administrative, Energy:</i>	<i>\$6,141,634</i>
Debt Service:	
Sunlife Debt (MFP Debt):	<u>\$2,389,596</u>
<i>Total Debt Service:</i>	<i>\$2,389,596</i>
Total Fixed Costs:	\$8,531,230

Programs and Studies

A number of Programs and Studies are included in the 2022 Budget. These studies are designed to achieve one of the following goals:

December 8, 2021

Re: Proposed 2022 UWSS Operations and Capital Budget

- Assess and identify improvements to operational processes to improve cost efficiencies potentially resulting in decrease of fixed operations costs such as electricity costs and chemical costs;
- Evaluate water demand and water usage by various sectors including residential, commercial, industrial, and food processing/greenhouse industry to assess future capital infrastructure needs;
- Evaluate water quality to for potential issues such as toxic algae in raw water, nitrification issues in larger distribution systems, etc.
- Evaluate new technologies that may benefit UWSS' operations

For the 2022 budget year, \$340,000 has been allocated to Programs and Studies. The following studies are proposed or currently in place.

Lake Erie HAB Monitoring Project:	\$100,000
New WTP Reservoir #3 Study & Preliminary Engineering:	\$ 80,000
Leak Detection Study:	\$ 75,000
Backup Power Generation/Energy Study:	<u>\$ 50,000</u>
UWSS Infrastructure Review and Master Servicing Plan:	<u>\$ 35,000</u>
Total:	\$340,000

Operating Expenditure Summary

Fixed Expenditures:	\$8,531,230
Programs and Studies:	<u>\$ 340,000</u>
Total Operating Expenditures for 2020:	\$8,871,230

REVENUE

Revenue for the budget process is mainly based on wholesale billings from the sale of potable water to the 4 municipal owners. A much smaller component of revenue is based on miscellaneous revenue such as investment income and sundry income. The total estimated revenue for 2022 is \$14,943,049

Wholesale Water Revenue Summary

Wholesale water revenue is based on annual water usage by the 4 owner municipalities and the wholesale water rates.

Water Usage

The projected water “usage” by municipal owners for 2022 is 20,565,000 m³ (4,524,300,000 imperial gallons), which is based on a 1.5% increase in water demand over 2021.

Figure 1 depicts the total UWSS water usage trend from 1998-2021 (value for 2021 is a projected total).

Figure 1

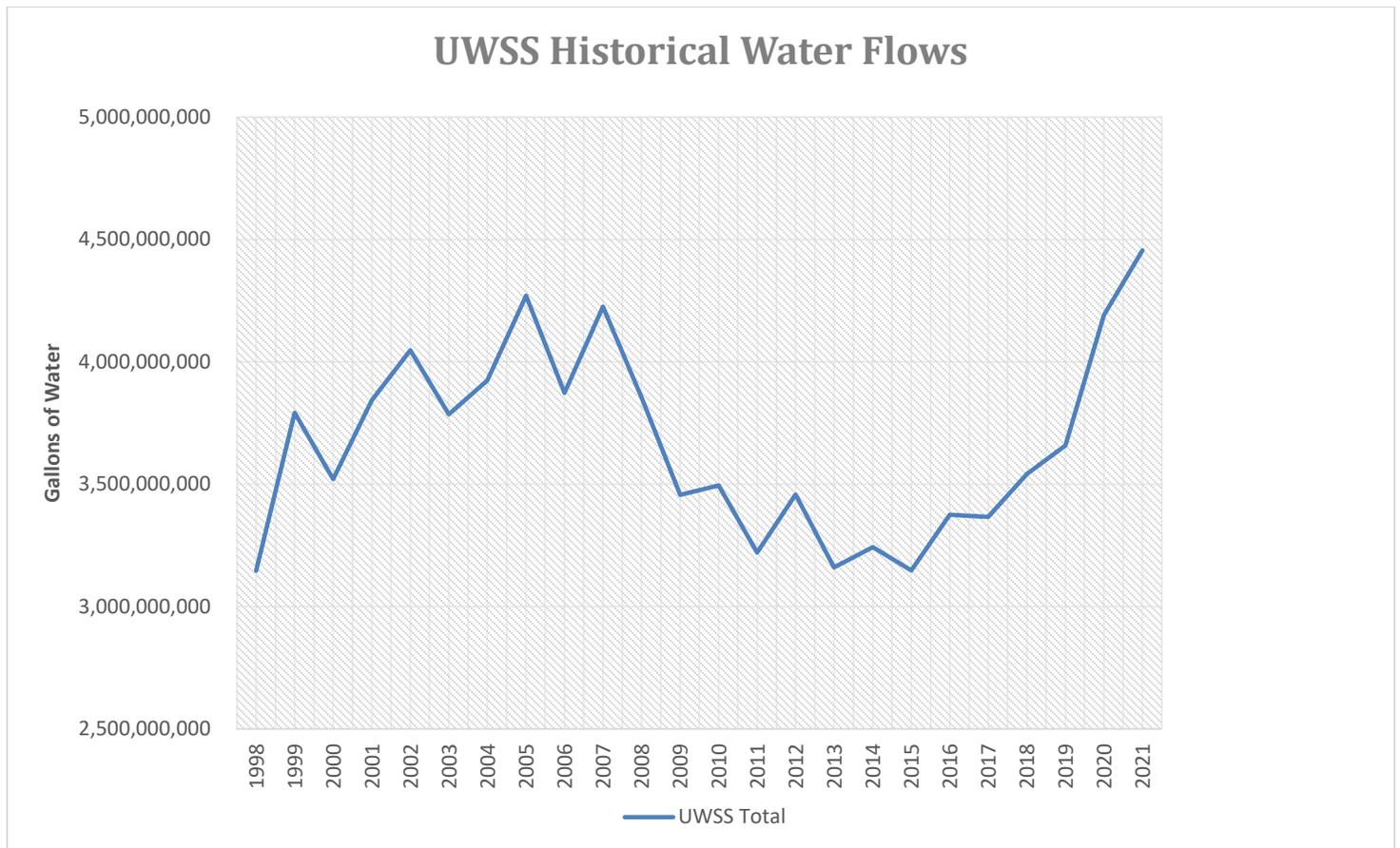
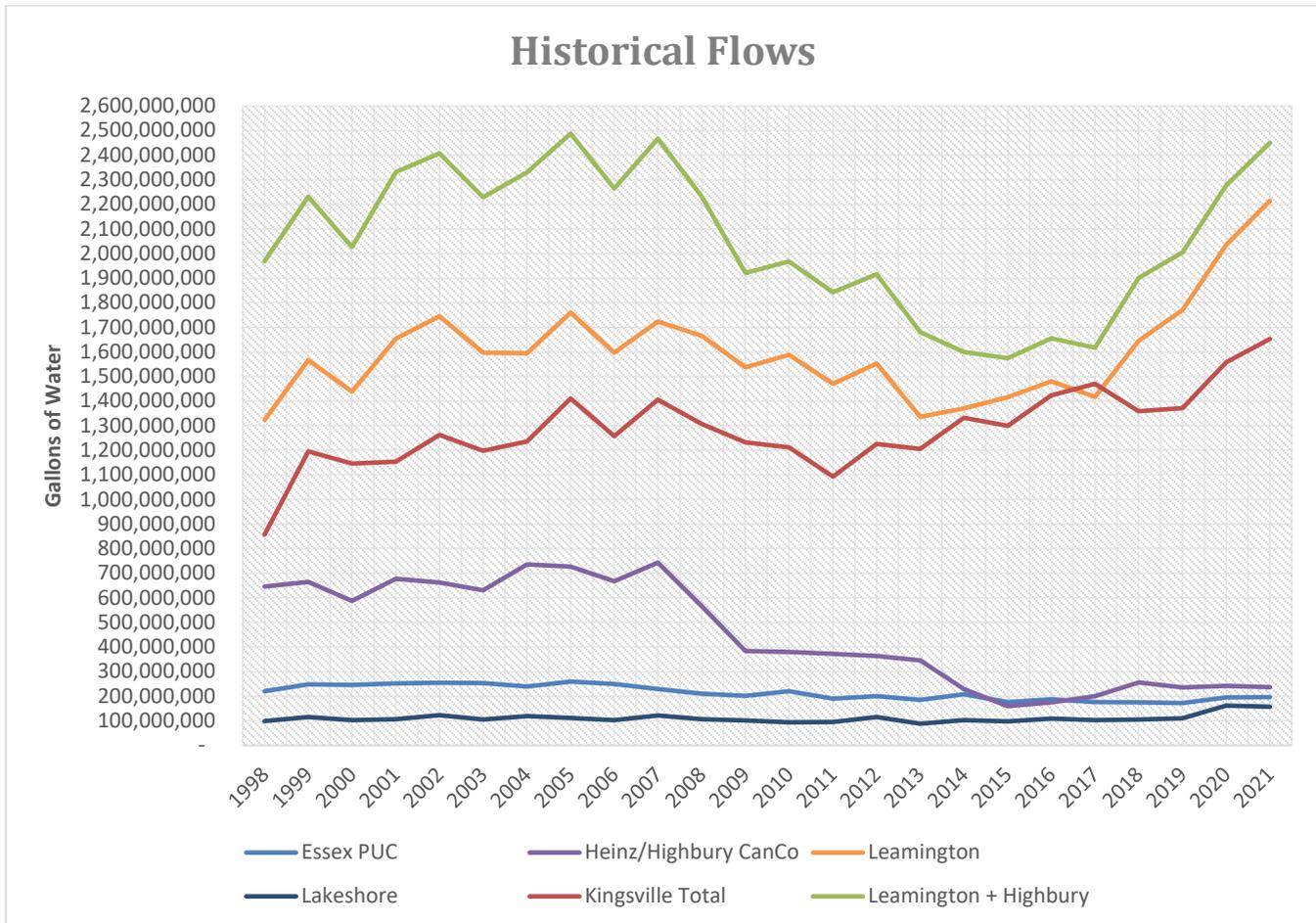


Figure 2 depicts the water usage trend by each municipal partner from 1998-2021.

Figure 2



Wholesale Water Rates

For the 2022 budgeting process, it is proposed that an increase of \$0.0269 per cubic meter be applied to the UWSS wholesale rate. This would result in a 2022 UWSS wholesale rate of \$0.6985 per cubic meter to be applied as of January 1, 2022.

December 8, 2021

Re: Proposed 2022 UWSS Operations and Capital Budget

Based on the anticipated water demand of 20,565,000 m3 of potable water for 2022, the wholesale rate water revenue is estimated at:

Wholesale Rate Revenue Total: \$14,364,653

Miscellaneous Revenue

Miscellaneous revenue includes income from investments and sundry income.

Investment (interest) income:	\$ 413,311
Property Rental Revenue:	\$ 142,800
Sundry revenue:	<u>\$ 22,285</u>
Total Misc. Revenue:	\$ 578,396

Sundry revenue is revenue received from various sources such as lease of space on water towers for telecommunications equipment. The property rental revenue is revenue from recently acquired property that is being leased to a tenant.

Revenue Summary

Wholesale Rate Revenue:	\$14,364,653
Miscellaneous Revenue :	<u>\$ 578,396</u>
Total Estimated Revenue for 2022:	\$14,943,049

REVENUE VERSUS OPERATING EXPENDITURES

A comparison of Revenue versus Expenditures for 2022 budget is as follows. It should be noted that the total estimated expenditures also include the proposed budget for operational Programs and Studies of \$340,000.

Total Estimated Revenue:	\$14,943,049
Total Estimated Expenditures:	<u>\$ 8,871,230</u>
Surplus/(Deficit):	\$ 6,071,819

December 8, 2021

Re: Proposed 2022 UWSS Operations and Capital Budget

CAPITAL PROGRAM

The proposed Capital Program for 2022 is budgeted at \$8,305,000.

Capital Works:

The following major capital works projects are proposed for 2022:

Dissolved Air Flootation Phase 1 (cont'd from 2021):	\$6,250,000
Albuna Water Tower Upgrades:	\$ 250,000
Residuals System Upgrades:	\$ 250,000
New High Lift Pump #7:	\$ 175,000
Grounds Improvements (asphalt/road repairs, landscaping):	\$ 150,000
Variable Frequency Drives for Low Lift Pumps:	\$ 150,000
Distribution System Component Improvements:	\$ 150,000
Low Lift Roof Replacement:	\$ 130,000
New Backup Wastewater Pump:	\$ 90,000
Kingsville Water Tower Utility Building:	\$ 85,000
PLC Upgrades at Cottam Booster & Generator B:	\$ 75,000
Outbuilding Improvements:	\$ 75,000
Electrical Improvements (new capacitors):	\$ 70,000
Filter Aid System Upgrades:	\$ 60,000
Travelling Screen #3 Major Maintenance:	\$ 50,000
Master Water Meter Upgrades:	\$ 50,000
Low Lift Pump #7 Rehab:	\$ 45,000
Treatment Plant Building Improvements - Admin Area:	\$ 45,000
New Carbon Feed Pumps (4):	\$ 40,000
Fencing Upgrades (various areas):	\$ 40,000
High Lift Pump #8 Major Maintenance:	\$ 35,000
Communication System Upgrades:	\$ 30,000
Surge Valves - High Lift Pumps #8 and #9:	\$ 25,000
Clearwell #1 Intake valve rotork:	<u>\$ 20,000</u>
Total Capital Works for 2022:	\$8,340,000

December 8, 2021

Re: Proposed 2022 UWSS Operations and Capital Budget

BUDGET SUMMARY

The proposed 2021 budget is summarized as follows:

Total Estimated Revenue: (includes wholesale rate revenue and miscellaneous revenue)	\$14,943,049
Total Estimated Operating Expenditures: (includes Operations Contract, UWSS Admin, Programs & Studies)	<u>(\$8,871,230)</u>
Revenue versus Operating Expenditures: Surplus/ (Deficit)	\$6,071,819
Capital Program: (includes Capital Purchases and Capital Works)	<u>(\$8,340,000)</u>
NET SURPLUS/ (DEFICIT) : (Operating surplus/deficit less Capital Program)	(\$2,268,181)

The capital program for 2022 will be funded through 2022 Revenue and UWSS Reserves.

CASH /RESERVES VERSUS DEBT

Cash and Reserves for UWSS as of January 1, 2022 are forecasted to be approximately \$19,288,000 dollars. It should be noted that of the estimated \$19,288,000 in available cash and reserves for 2022, approximately \$11,060,000 are dedicated to UWSS Settlement Reserve, which is associated with the 2006 settlement that was reached regarding the MFP debt. Although the UWSS Board has authority to use these funds as it sees fit, the intent is to keep these funds in an interest bearing investment funds to offset the annual MFP Debt obligation and to function as a rate stabilizing Reserve Fund. These funds are currently invested in a GIC that will come to term in 2022 but are fully liquid and accessible if needed.

The 2022 UWSS Operating and Capital Budget projects a Net Deficit of \$2,268,181 for 2022 year end. Thus, it is anticipated that UWSS reserves at the end of 2022 will decrease to approximately \$17,300,000

Based on debt repayment schedules, the total UWSS long term debt balance as of January 2022 is \$9,375,773 and consists solely of the Sunlife Loan (aka former MFP Debt) that has a term date of 2026. At the end of 2022, this debt will decrease to \$7,908,943.

December 8, 2021

Re: Proposed 2022 UWSS Operations and Capital Budget

PROPOSED 6-YEAR CAPITAL WORKS PLAN

The UWSS General Manager, with assistance and input from OCWA Operations Staff has developed a proposed 6-year Capital Works Plan (2022-2027) for the UWSS. This Plan reflects the intention to undertake upgrades and improvements to the UWSS to address lifecycle replacement/upgrade issues and to improve water treatment, storage and transmission efficiencies.

The Proposed 6-Year Capital Plan is included as Appendix B to this Report. The Plan identifies the proposed works for each year and the anticipated value of the works. The total proposed rate and Reserve funded capital works expenditures for 2022-2027 are projected at \$26,120,000. Proposed debt funded capital works for this period is valued at \$42,000,000 and include proposed Reservoir #3/ UV project (\$30,000,000) and upgrade of 12-inch watermain to Cottam (\$12,000,000).

CONCLUSIONS:

It is the UWSS General Manager's opinion that the Budget presented in this report provides a Budget for UWSS that is fiscally prudent while also providing for the major maintenance and lifecycle replacements needed to ensure that UWSS facilities and operations are effective and sustainable for the future.

Respectfully submitted,



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

Filename: t:\union wtr\reports to board\2021\uw39-21 proposed 2022 uwss operations and capital budget report.december 8, 2021.docx

**2022 UWSS PROPOSED OPERATIONS AND CAPITAL BUDGET
TABLES AND DETAILS**

**UNION WATER SUPPLY SYSTEM
2022 PROPOSED
BUDGET
Budgeted Water Demand and Wholesale Rate Revenue**

Flow Metering Location	2021 Budget Estimate	2021 Forecasted to Dec 31, 2021	2022 Rate Increase of \$0.0269 per m3	2023 Rate Increase of \$0.0279 per m3	2024 Rate Increase of \$0.0291 per m3	2025 Rate Increase of \$0.0302 per m3	2026 Rate Increase of \$0.0314 per m3	2027 Rate Increase of \$0.0163 per m3
Essex PUC	881,000	889,810	892,000	896,460	900,942	905,447	909,974	914,524
Gosfield N. Twsp	695,000	681,100	690,000	693,450	696,917	700,402	703,904	707,423
Gosfield S. Twsp	5,957,000	6,135,710	6,260,000	6,353,900	6,449,209	6,545,947	6,644,136	6,743,798
Highbury CanCo	1,063,000	1,073,630	1,075,000	1,080,375	1,085,777	1,091,206	1,096,662	1,102,145
Kingsville PUC	688,000	694,880	698,000	701,490	704,997	708,522	712,065	715,625
Leamington PUC	9,496,000	10,065,760	10,235,000	10,419,230	10,606,776	10,797,698	10,992,057	11,189,914
Lakeshore	697,000	710,940	715,000	718,575	722,168	725,779	729,408	733,055
Total Flow:	19,477,000	20,251,830	20,565,000	20,863,480	21,166,786	21,475,000	21,788,205	22,106,484
	4,284,940,000	4,455,402,600	4,524,300,000	4,589,965,600	4,656,693,006	4,724,500,109	4,793,405,109	4,863,426,515
		4%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
Rate 1 Flow	19,477,000	20,251,830	20,565,000	20,863,480	21,166,786	21,475,000	21,788,205	22,106,484
Rate 1	\$0.6716	\$0.6716	\$0.6985	\$0.7264	\$0.7555	\$0.7857	\$0.8171	\$0.8334
Rate 1 Revenue	\$13,080,753	\$13,601,129	\$14,364,653	\$15,155,232	\$15,991,507	\$16,872,908	\$17,803,142	\$18,423,544
Capital Rate - Greenhouse Flow			11,310,750	11,474,914	11,641,733	11,811,250	11,983,513	12,158,566
Capital Rate				\$0.08	\$0.08	\$0.08	\$0.08	\$0.08
Capital Rate Revenue			\$0.00	\$917,993.12	\$931,338.60	\$944,900.02	\$958,681.02	\$972,685.30
Rate 3 Flow	0	0	0	0	0	0	0	0
Rate 3 Flow	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Rate 3 Revenue	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Lifecycle Rate	\$0.0791	\$0.0791	\$0.0791	\$0.0791	\$0.0791	\$0.0791	\$0.0791	\$0.0791
	\$1,541,020	\$1,602,325	\$1,627,103	\$1,650,719	\$1,674,716	\$1,699,102	\$1,723,883	\$1,749,065
Total Revenue	\$13,080,753	\$13,601,129	\$14,364,653	\$16,073,225	\$16,922,846	\$17,817,808	\$18,761,823	\$19,396,229

UNION WATER SUPPLY SYSTEM
2022 PROPOSED BUDGET
Budget Summary

	2021	2021	2022	2023	2024	2025	2026	2027
	Rate Increase of \$0.0258 per m3	Forecasted to Dec 31, 2021	Rate Increase of \$0.0269 per m3	Rate Increase of \$0.0279 per m3	Rate Increase of \$0.0291 per m3	Rate Increase of \$0.0302 per m3	Rate Increase of \$0.0314 per m3	Rate Increase of \$0.0163 per m3
REVENUE								
Senior Government Grants	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Wholesale Rate Billings	\$13,080,753	\$13,601,129	\$14,364,653	\$16,073,225	\$16,922,846	\$17,817,808	\$18,761,823	\$19,396,229
Investment Income	\$405,207	\$455,000	\$413,311	\$421,577	\$430,009	\$438,609	\$447,381	\$456,329
Sundry revenue	\$21,848	\$34,707	\$22,285	\$22,731	\$23,186	\$23,649	\$24,122	\$24,605
Property Rental Revenue	\$0	\$0	\$142,800					
Municipal Study Revenue	\$70,000	\$70,000	\$0					
Capital Rate Income - Greenhouse Sector			\$0	\$917,993	\$931,339	\$944,900	\$958,681	\$972,685
TOTAL REVENUES	\$13,577,809	\$14,160,836	\$14,943,049	\$16,517,533	\$17,376,040	\$18,280,066	\$19,233,327	\$19,877,163
OPERATING EXPENDITURE								
General Administration	\$411,577	\$357,060	\$432,639	\$435,002	\$440,468	\$446,039	\$451,718	\$457,506
Leamington Assistance	\$30,000	\$30,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
Miscellaneous Legal/Professional fees	\$45,000	\$150,000	\$150,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000
OCWA Operating Contract	\$3,430,209	\$3,430,209	\$3,533,115	\$3,639,109	\$3,748,282	\$3,860,730	\$3,976,552	\$4,095,849
Programs and Studies	\$430,000	\$349,740	\$340,000	\$250,000	\$150,000	\$150,000	\$150,000	\$150,000
Operational/Maintenance/Upgrades - General	\$350,000	\$305,000	\$325,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000
Property Taxes	\$147,500	\$147,500	\$159,500	\$162,690	\$165,944	\$169,263	\$172,648	\$176,101
CO2 Liquified Gas Procurement	\$100,000	\$25,000	\$110,000	\$112,200	\$114,444	\$116,733	\$119,068	\$121,449
Electricity and Natural Gas	\$1,315,600	\$1,350,000	\$1,381,380	\$1,450,449	\$1,522,971	\$1,599,120	\$1,679,076	\$1,763,030
TOTAL OPERATING EXPENDITURES	\$6,259,886	\$6,144,509	\$6,481,634	\$6,474,449	\$6,567,109	\$6,766,885	\$6,974,062	\$7,188,935
Debt Service - Sunlife Loan	\$2,370,377	\$2,370,377	\$2,389,596	\$2,408,934	\$2,428,392	\$2,449,323	\$2,467,669	\$0
Capital Loan for Reservoir and UV - \$30million @ 3% for 10yrs			\$0	\$3,698,728	\$3,698,728	\$3,698,728	\$3,698,728	\$3,698,728
Cottam WM replacement loan - \$12million @ 3% for 10yrs								\$1,457,928
TOTAL DEBT SERVICE EXPENDITURES	\$2,370,377	\$2,370,377	\$2,389,596	\$6,107,662	\$6,127,120	\$6,148,051	\$6,166,397	\$5,156,656
CASH CAPITAL EXPENDITURE								
Capital Repair, Maintenance & Upgrade Works	\$13,457,410	\$5,429,750	\$8,340,000	\$2,865,000	\$6,360,000	\$4,480,000	\$2,690,000	\$1,420,000
	\$0							
TOTAL CASH FUNDED CAPITAL EXPENDITURES	\$13,457,410	\$5,429,750	\$8,340,000	\$2,865,000	\$6,360,000	\$4,480,000	\$2,690,000	\$1,420,000
NET SURPLUS/(DEFICIT)	(\$8,509,865)	\$216,200	(\$2,268,181)	\$1,070,422	(\$1,678,189)	\$885,130	\$3,402,868	\$6,111,572

**UNION WATER SUPPLY SYSTEM
2022 PROPOSED BUDGET
Operational Revenue and Expenditures Budget**

Number	Account Description	2021	2021	2022	2023	2024	2025	2026	2027
		Rate Increase of \$0.0258 per m3	Forecasted to Dec 31, 2021	Rate Increase of \$0.0269 per m3	Rate Increase of \$0.0279 per m3	Rate Increase of \$0.0291 per m3	Rate Increase of \$0.0302 per m3	Rate Increase of \$0.0314 per m3	Rate Increase of \$0.0163 per m3
REVENUE ACCOUNTS									
FEES REVENUE									
0700-3700	Wholesale Rate Billings	\$13,080,753	\$13,601,129	\$14,364,653	\$16,073,225	\$16,922,846	\$17,817,808	\$18,761,823	\$19,396,229
	Capital Rate Income - Greenhouse Sector			\$0	\$917,993	\$931,339	\$944,900	\$958,681	\$972,685
		\$13,080,753	\$13,601,129	\$14,364,653	\$16,073,225	\$16,922,846	\$17,817,808	\$18,761,823	\$19,396,229
MISCELLANEOUS REVENUES									
0700-4100	Investment Income (Operations)	\$405,207	\$455,000	\$413,311	\$421,577	\$430,009	\$438,609	\$447,381	\$456,329
0700-3999	Sundry revenue	\$21,848	\$34,707	\$22,285	\$22,731	\$23,186	\$23,649	\$24,122	\$24,605
	Property Rental Revenue			\$142,800	\$71,400				
	Property Sale				\$650,000				
	Municipal Study Revenue (Windsor Utilities)	\$70,000	\$70,000	\$0	\$0	\$0	\$0	\$0	\$0
		\$497,055	\$559,707	\$578,397	\$1,165,708	\$453,195	\$462,258	\$471,504	\$480,934
	TOTAL REVENUES :	\$13,577,809	\$14,160,836	\$14,943,049	\$17,238,933	\$17,376,040	\$18,280,066	\$19,233,327	\$19,877,163
EXPENDITURE ACCOUNTS									
WAGES AND BENEFITS									
0700-5000	Salaried	\$187,272	\$187,262	\$191,017	\$194,838	\$198,735	\$202,709	\$206,763	\$210,899
	Part time	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
0700-5200 to 5210	Benefits - Full time	\$65,805	\$65,805	\$67,121	\$68,464	\$69,833	\$71,230	\$72,654	\$74,107
	Benefits - Part time	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		\$253,077	\$253,067	\$258,139	\$263,302	\$268,568	\$273,939	\$279,418	\$285,006
OFFICE OVERHEAD, RENTS AND SERVICES									
0700-7010	Office supplies	\$2,000	\$1,500	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
0700-7015	Board expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
0700-7020	Dues, Memberships, Subsc	\$5,000	\$3,750	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
0700-7030	Travel & Mileage	\$2,500	\$375	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500
0700-7040	Training	\$6,000	\$750	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000
0700-7050	Conferences	\$6,000	\$1,500	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000
0700-7052	Meeting Expenses	\$2,000	\$500	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
0700-7070	Uniforms/Clothing	\$500	\$150	\$500	\$500	\$500	\$500	\$500	\$500
0700-7950	Legal/Professional fees	\$45,000	\$150,000	\$150,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000
0700-7959-002070	Audit Fees	\$6,500	\$6,500	\$6,500	\$6,700	\$6,900	\$7,100	\$7,300	\$7,500
0700-7080 & 7085	Operational Purchases/Maint.	\$17,500	\$0	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500
0700-7110	Communications	\$1,500	\$1,300	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500
0700-7120	Postage & Courier	\$500	\$100	\$500	\$500	\$500	\$500	\$500	\$500
0700-7130	Advertising & Promotion	\$7,000	\$2,500	\$5,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000
0700-7140	Insurance	\$15,000	\$17,818	\$22,000	\$22,000	\$22,000	\$22,000	\$22,000	\$22,000
0700-7130	Donations & Grants	\$4,000	\$0	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000
0700-7240	Tech Hardware Maintenance (SCADA, etc)	\$40,000	\$17,500	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000
0700-7250	Tech Hardware Purchases (non-TCA)	\$5,000	\$4,250	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
0700-7260	Software Licensing and Support	\$25,000	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000
0700-7270	Software Purchases	\$2,500	\$1,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500
0700-7290	Telecom Maintenance	\$5,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000
	COVID 19 Related	\$5,000	\$3,000	\$5,000	\$0	\$0	\$0	\$0	\$0
		\$203,500	\$253,993	\$324,500	\$246,700	\$246,900	\$247,100	\$247,300	\$247,500
	TOTAL OPERATIONAL EXPENDITURES:	\$6,262,546	\$6,147,169	\$6,481,634	\$6,474,449	\$6,567,109	\$6,766,885	\$6,974,062	\$7,188,935
	NET OPERATIONAL SURPLUS/(DEFICIT)	\$7,315,262	\$8,013,667	\$8,461,415	\$10,764,484	\$10,808,931	\$11,513,181	\$12,259,265	\$12,688,228
DEBT SERVICE									
0700-6000 & 6100	Sun Life Debt Obligation	\$2,370,377	\$2,370,377	\$2,389,596	\$2,408,934	\$2,428,392	\$2,449,323	\$2,467,669	\$0
	\$30million Capital Loan	\$0	\$0	\$0	\$3,698,728	\$3,698,728	\$3,698,728	\$3,698,728	\$3,698,728
	Cottam WM Replacement Loan	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,457,928
	TOTAL DEBT SERVICE:	\$2,370,377	\$2,370,377	\$2,389,596	\$6,107,662	\$6,127,120	\$6,148,051	\$6,166,397	\$5,156,656
	SURPLUS/(DEFICIT) AFTER DEBT	\$4,944,885	\$5,643,290	\$6,071,819	\$4,656,822	\$4,681,811	\$5,365,130	\$6,092,868	\$7,531,572

UNION WATER SUPPLY SYSTEM
PROPOSED 2022 BUDGET
Capital Program

Item Description	Studies	Treatment Plant Upgrades & Renewals	Low Lift Upgrades	Cottam Booster Upgrades	SCADA / Communication/ Security System Upgrades	Transmission Facilities	General/ Various Facilities	TOTAL	Comments
STUDIES/PROGRAMS									
Lake Erie HAB Monitoring Project - UWSS & Univ. of Windsor/GLIER	\$100,000							\$100,000	
Leak Detection Study	\$75,000							\$75,000	
New Ruthven WTP Reservoir #3 Study/ Preliminary Engineering	\$80,000							\$80,000	Original project budget was \$30k
Backup power generation/ energy study	\$50,000							\$50,000	Increase of \$10k
UWSS Infrastructure Review and Master Servicing Plan	\$35,000							\$35,000	Continuation of 2021 work
Total Studies/Programs	\$340,000							\$340,000	
CAPITAL WORKS/ MAJOR MAINTENANCE									
Low Lift #7 Rehab			\$45,000					\$45,000	
Low Lift Roof Replacement			\$130,000					\$130,000	Original budget was \$75k
Travelling Screen #3 major maintenance			\$50,000					\$50,000	
Filter Aid System Upgrade		\$60,000						\$60,000	
Highlift Pump #8 Major Maintenance		\$35,000						\$35,000	
Highlift Pump #7 - New		\$175,000						\$175,000	
Surge Valves for High Lift Pumps #8 and #9		\$25,000						\$25,000	
New Carbon Feed Pumps (4)		\$40,000						\$40,000	
Communication System upgrades					\$30,000			\$30,000	
PLC Upgrades - Cottam Booster, Generator B					\$75,000			\$75,000	
Electrical Upgrades - capacitors, etc.							\$70,000	\$70,000	
New Variable Frequency Drives (VFDs) and upgrades to Cottam Booster Pumps				\$150,000				\$150,000	
Albuna Water Tower Upgrades						\$250,000		\$250,000	
Distribution System Components						\$150,000		\$150,000	
Master Water Meters Upgrades						\$50,000		\$50,000	
Treatment Plant Bldg Improvements - Admin Area		\$45,000						\$45,000	
Clearwell #1 Inlet Rotork - new		\$20,000						\$20,000	
Wastewater Pump - New backup pump		\$90,000						\$90,000	Original budget was \$50k
Wastewater Pond Upgrades		\$250,000						\$250,000	
Grounds Improvements (landscaping; asphalt/road repairs, etc)							\$150,000	\$150,000	
Outbuilding Improvements							\$75,000	\$75,000	
Fencing Upgrades - various areas							\$40,000	\$40,000	
Total Capital Works/ Major Maintenance		\$740,000	\$225,000	\$150,000	\$105,000	\$450,000	\$335,000	\$2,005,000	
NEW CAPITAL WORKS									
DAF System Design for 2 units; construction of Clarifier #2 retrofit (Total project budget is \$9,250,000; Estimate \$3,000,000 in 2021 and \$6,250,000 in 2022)		\$6,250,000						\$6,250,000	
Kingsville Water Tower new utility Building							\$85,000	\$85,000	
Total New Capital Works		\$6,250,000	\$0	\$0	\$0	\$0	\$85,000	\$6,335,000	
TOTAL MAJOR MAINTENANCE and CAPITAL		\$6,990,000	\$225,000	\$150,000	\$105,000	\$450,000	\$420,000	\$8,340,000	

UNION WATER SUPPLY SYSTEM
PROPOSED 2022 BUDGET
2021 Capital Expenditures

Item Description	TOTAL	Expenditures	Budget Remainder	Projected Expenditures to Year End	Projected +/- Budget	Comments
STUDIES/PROGRAMS						
Lake Erie HAB Monitoring Project - UWSS & Univ. of Windsor/GLIER	\$100,000	\$101,740	-\$1,740	\$101,740	-\$1,740	Fully Allocated/ Funded for 2021
Emergency Water Servicing Study - UWSS & WUC	\$115,000	\$64,514	\$50,486	\$115,000	\$0	Preliminary Report Issued. Final Due December.
New Ruthven WTP Reservoir #3 Study/ Reservoir Optimization	\$30,000	\$3,153	\$26,847	\$0	\$30,000	Delayed due to other work - Reallocate to 2022
Backup power generation/ energy study	\$40,000	\$0	\$40,000	\$0	\$40,000	Delayed due to other work - Reallocate to 2022
UWSS Water Treatment Capacity Testing (Stress Test)	\$0	\$0	\$0	\$33,000	-\$33,000	Undertaken in place of Reservoir #3 Study
UWSS Infrastructure Review and Master Servicing Plan	\$145,000	\$67,281	\$77,719	\$100,000	\$45,000	Draft Report issued - Final report to be issued in October 2021
Total Studies/Programs	\$430,000	\$236,687	\$193,313	\$349,740	\$80,260	
CAPITAL WORKS/ MAJOR MAINTENANCE						
Low Lift #6 Rehab	\$35,000	\$40,183	-\$5,183	\$40,183	-\$5,183	Initially allocated to LL#3 but more pressing to do LL#6 - Done
Low Lift Roof Replacement	\$75,000	\$0	\$75,000	\$0	\$75,000	Delayed due to other work - Reallocate to 2022
Low Lift Main Electrical-Transformer/Feed/Switch Gear/Breaker Upgrades	\$200,000	\$172,776	\$27,224	\$172,776	\$27,224	Work Complete
Filter Aid System Upgrade	\$60,000	\$0	\$60,000	\$0	\$60,000	Delayed due to DAF project - Reallocate to 2022
Filter # 2 - Rehab (recoat filter box; new underdrains)	\$376,205	\$287,709	\$88,496	\$380,169	-\$3,964	Work Complete
Filter # 4 - Rehab (recoat filter box; new underdrains)	\$376,205	\$287,709	\$88,496	\$380,169	-\$3,964	Work Complete
Highlift Pump #7 - New	\$175,000	\$0	\$175,000	\$0	\$175,000	Delayed due to DAF project - Reallocate to 2022
Communication System upgrades	\$35,000	\$0	\$35,000	\$20,000	\$15,000	Upgrades to be done at Low Lift/Cottam etc. in Oct-Nov 2021
PLC Upgrades - Low Lift, Cottam Booster, Generator B	\$150,000	\$85,450	\$64,550	\$85,450	\$64,550	New Low Lift PLC Installed. PLC for Cottam and Gen B in 2022
Electrical Upgrades - capacitors, etc.	\$70,000	\$0	\$70,000	\$70,000	\$0	To be reviewed in 2021 and equip purchased in 2022
Cottam Booster mixing system design and install	\$75,000	\$0	\$75,000	\$0	\$75,000	Delayed due to other work - Reallocate to future year
Kingsville Water Tower Recoating; Safety Upgrades; Improvements	\$1,650,000	\$1,616,187	\$33,813	\$1,737,877	-\$87,877	Substantially complete - Minor items remaining - Overbudget due error in budget for engineering/contract management; mitigated through other project underspending.
Essex Water Tower New Cathodic Protection System	\$40,000	\$33,434	\$6,566	\$33,434	\$6,566	Work Complete
Distribution System Components	\$150,000	\$172,769	-\$22,769	\$172,769	-\$22,769	Work Complete - overbudget due to material/shipping cost increases (COVID), labour, etc. Over spending mitigated through other project underspending.
Master Water Meters Upgrades	\$50,000	\$19,803	\$30,197	\$25,000	\$25,000	Pipe:Scan Ordered. Meter 1A Rotork ordered in November 2021. Awaiting delivery
Laboratory Upgrades	\$75,000	\$75,441	-\$441	\$75,441	-\$441	Lab construction complete
Treatment Plant Bldg Improvements - Admin Area	\$30,000	\$15,943	\$14,057	\$15,943	\$14,057	Work complete for 2021. Additional work reallocate to 2022
Clearwell #1 Inlet Rotork - new	\$20,000	\$0	\$20,000	\$15,000	\$5,000	Equipment ordered in November. Awaiting delivery
Wastewater Pump - New backup pump	\$50,000	\$0	\$50,000	\$0	\$50,000	Delayed due to other work - Reallocate to 2022
Grounds Improvements (landscaping; asphalt/road repairs, etc)	\$170,000	\$0	\$170,000	\$0	\$170,000	Delayed due to other work - Reallocate to 2022
Ammonia Building Retrofits	\$125,000	\$74,887	\$50,113	\$100,000	\$25,000	Work Ongoing
Fencing - Treatment Plant Property; Leamington Water Tower Property	\$20,000	\$0	\$20,000	\$0	\$20,000	Delayed due to other work - Reallocate to 2022
Low Lift Wet Well Algae Monitoring System	\$50,000	\$49,650	\$350	\$49,650	\$350	New budget item approved in Sept 2021-Equipment Received and Installed
Total Capital Works/ Major Maintenance	\$4,057,410	\$2,931,942	\$1,125,469	\$3,373,861	\$683,549	
NEW CAPITAL WORKS						
DAF System Design for 2 units; construction of Clarifier #2 retrofit (Total project budget is \$9,250,000; Estimate \$7,000,000 in 2021 and \$2,250,000 in 2022)	\$9,250,000	\$1,988,792	\$7,261,208	\$2,000,000	\$7,250,000	Construction underway - Completion May 2022
Kingsville Water Tower new utility Building	\$150,000	\$55,889	\$94,111	\$55,889	\$94,111	Design/engineering/subsurface/survey work completed - Construction in 2022
Total New Capital Works	\$9,400,000	\$2,044,681	\$7,355,319	\$2,055,889	\$7,344,111	
TOTAL MAJOR MAINTENANCE and CAPITAL	\$13,457,410	\$4,976,623	\$8,480,787	\$5,429,750	\$8,027,660	

**UWSS 6-YEAR CAPITAL PLAN
TABLES AND DETAILS**

UNION WATER SUPPLY SYSTEM Six Year Recommended Capital / Major Maintenance - December 12, 2021							
	2022	2023	2024	2025	2026	2027	Total Capital Expenditures 2022-2027
Union Area Water Supply System							
Studies and Programs							
Lake Erie HAB Monitoring Study - UWSS & U of Windsor	\$ 100,000	\$ 100,000					\$ 200,000
Leak Detection Study	\$ 75,000						\$ 75,000
New Ruthven WTP Reservoir #3 Study/ Preliminary Engineering	\$ 80,000						\$ 80,000
Backup power generation / energy study	\$ 50,000						\$ 50,000
UWSS Infrastructure Review and Master Servicing Plan	\$ 35,000						\$ 35,000
Contingency (un-identified future studies)		\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 750,000
Subtotal Studies and Programs	\$ 340,000	\$ 250,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 1,190,000
Low Lift							
Intake #1 & 2* (Note 5)			\$ 30,000	\$ 30,000			\$ 60,000
Intake # 2 (See Item 16 for more detail)							\$ -
Intake # 3, shoreline intake							\$ -
Coarse Bar Screen (2)							\$ -
Travelling Screen #1							\$ -
Travelling Screen #2							\$ -
Travelling Screen #3	\$ 50,000						\$ 50,000
Pump Wells(2)							\$ -
Low Lift Pump 1 *(Note 1)							\$ -
Low Lift Pump 2							\$ -
Low Lift Pump 3							\$ -
Low Lift Pump 4		\$ 35,000					\$ 35,000
Low Lift Pump 5							\$ -
Low Lift Pump 6							\$ -
Low Lift Pump 7	\$ 45,000						\$ 45,000
Zebra Mussel Control System			\$ 20,000				\$ 20,000
Pump discharge line							\$ -
Low Lift Surge Tanks (2) and Compressor System *(Note 6)							\$ -
Low Lift Roof Replacement	\$ 130,000						\$ 130,000
Low Lift Diesel Generator				\$ 1,500,000			\$ 1,500,000
Low Lift transformer, feed, switch gear, breaker upgrades							\$ -
General Building Maintenance & Equipment							
Grounds Improvements	\$ 150,000		\$ 35,000		\$ 100,000	\$ 100,000	\$ 385,000
Ammonia Building Retrofits							\$ -
Fencing Upgrades	\$ 40,000						\$ 40,000
Outbuilding Improvements	\$ 75,000					\$ 200,000	\$ 275,000
							\$ -
Clarification System							
Clarifier 1 -							\$ -
Clarifier 2 -							\$ -
Clarifier 3							\$ -
Clarifier 4							\$ -
Chemical System							
Coagulant Feed System		\$ 15,000			\$ 20,000		\$ 35,000
Coagulant Storage							\$ -

Filter Aid System Upgrades	\$ 60,000					\$ 60,000
Carbon Feed System						\$ -
Carbon Flushing Lines						\$ -
Tank Mixers (3)						\$ -
Recirc. Pump						\$ -
Slurry Transfer Pumps (2)						\$ -
Carbon Feed Pumps (4)	\$ 40,000			\$ 30,000		\$ 70,000
Carbon Scrubber System						\$ -
Filtration						\$ -
Filter 1						\$ -
Filter 2						\$ -
Filter 3						\$ -
Filter 4						\$ -
Filter 5						\$ -
Filter 6						\$ -
Filter 7						\$ -
Filter 8						\$ -
Turbidity Meters for Filter Backwash						\$ -
Filter Meter Replacements						\$ -
Valves						\$ -
Removal of Microstrainers/ Install of Flooring						\$ -
Pumps						
Backwash Pump 1 - Actuator upgrade						\$ -
Backwash Pump 2				\$ 150,000		\$ 150,000
High Lift Pump 1 *(Note 2) Diesel Pump						\$ -
High Lift Pump 2						\$ -
High Lift Pump 3						\$ -
High Lift Pump 4						\$ -
High Lift Pump 5						\$ -
High Lift Pump 6						\$ -
High Lift Pump 7	\$ 175,000					\$ 175,000
High Lift Pump 8	\$ 12,500					\$ 12,500
High Lift Pump 9	\$ 12,500			\$ 200,000		\$ 212,500
High Lift Pump No. 10						\$ -
High Lift Reservoirs and components		\$ 50,000				\$ 50,000
Wastewater Pumps (2)	\$ 90,000			\$ 90,000		\$ 180,000
Surge Tanks (2)						
HL Compressor 1						\$ -
HL Compressor 2				\$ 20,000		\$ 20,000
HL Compressor 3		\$ 15,000				\$ 15,000
Main Plant Reservoirs and Clearwells						
Reservoir #1						\$ -
Reservoir #2						\$ -
Clearwells	\$ 20,000			\$ 200,000		\$ 220,000
Main Plant Electrical						
General Electrical upgrades	\$ 70,000					\$ 70,000
New Generators for Treatment Plant						\$ -
Energy Monitoring and Management System - High Lift						\$ -
Generator B Transfer Switch Automation						\$ -
Disinfection						
Dehumidification						\$ -
Chlorine Feed System						\$ -
Ammonia Feed System						\$ -
Scrubber System						\$ -
SCADA /Communication/Security						
Security System Install						\$ -

System upgrade and Maintenance	\$ 75,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 225,000
UWSS Wide Communication System Improvements	\$ 30,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 130,000
Monitoring Equipment							
Turbidity Meter Replacement -							\$ -
Chlorine Analyzer Replacements							\$ -
Blue Green Algae Monitoring Probe							\$ -
Building Maintenance							
Facility Enhancements - General							\$ -
Maintenance Shop Roof Replacement							\$ -
Windows & Doors Replacement							\$ -
Admin Building	\$ 45,000		\$ 25,000				\$ 70,000
Laboratory Upgrade							\$ -
New Equipment							
Portable Backup Generator for Low Lift, Water Towers, Emergency							\$ -
Cottam Reservoir & Booster PS							
Reservoir							\$ -
Booster Pump 1							\$ -
Booster Pump 2							\$ -
Booster Pump 3							\$ -
Booster Pump 4							\$ -
VFDs for Pumps 1-4	\$ 150,000						\$ 150,000
Surge Tanks (2)							\$ -
Compressor							\$ -
Reservoir Cover Regrading/Repairs							\$ -
Rechlorination system upgrades							\$ -
Passive Mixing System Install							\$ -
Distribution System							
Leamington Tower							\$ -
Albuna Tower	\$ 250,000					\$ 500,000	\$ 750,000
Kingsville Tower							\$ -
Essex Tower							\$ -
Distribution System Maintenance	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 900,000
Master Water Meter Replacement/Upgrades	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 300,000
Wastewater Treatment System							
Wastewater Pond Upgrades	\$ 250,000						\$ 250,000
Residuals Management system (see new capital works)							\$ -
							\$ -
NEW CAPITAL PROJECTS							\$ -
Cash Funded Project							\$ -
Pre-Treatment/clarification upgrades (DAF) design	\$ 6,250,000		\$ 6,000,000				\$ 12,250,000
Kingsville Water Tower Utility Building	\$ 85,000						\$ 85,000
Backup Power System Upgrades (e.g. new generators, etc)		\$ 2,500,000	\$ -				\$ 2,500,000
Admin Building upgrades, expansion and elevator				\$ 1,700,000			\$ 1,700,000
Residuals management system upgrades				\$ 1,000,000	\$ 2,000,000		\$ 3,000,000
							\$ -
Debt Funded Project							\$ -
New Reservoir #3		\$ 6,000,000	\$ 15,000,000				\$ 21,000,000
UV Disinfection - In-reservoir UV vault			\$ 9,000,000				\$ 9,000,000
Replacement of 12-inch Cottam Water Main					\$ 4,000,000	\$ 8,000,000	\$ 12,000,000
<i>Subtotal Capital and Major Maintenance</i>	<i>\$1,970,000</i>	<i>\$365,000</i>	<i>\$360,000</i>	<i>\$1,780,000</i>	<i>\$690,000</i>	<i>\$1,420,000</i>	<i>\$ 6,585,000</i>
<i>Total Cash Funded New Capital Projects</i>	<i>\$6,335,000</i>	<i>\$2,500,000</i>	<i>\$6,000,000</i>	<i>\$2,700,000</i>	<i>\$2,000,000</i>	<i>\$0</i>	<i>\$ 19,535,000</i>
Total Cash Funded New Capital and Major Maintenance	\$8,305,000	\$2,865,000	\$6,360,000	\$4,480,000	\$2,690,000	\$1,420,000	\$ 26,120,000
Total Debt Funded Capital	\$0	\$6,000,000	\$24,000,000	\$0	\$4,000,000	\$8,000,000	\$ 42,000,000
							\$ -
TOTAL CAPITAL, STUDIES AND NEW CAPITAL	\$ 8,305,000	\$ 8,865,000	\$ 30,360,000	\$ 4,480,000	\$ 6,690,000	\$ 9,420,000	\$ 68,120,000

**Dates for the Union Water Supply System Joint Board of Management Meetings
for the 2022 Year**

January 19, 2022

February 16, 2022

March 16, 2022

April 20, 2022

May 18, 2022

June 15, 2022

July 20, 2022

August 17, 2022

September 21, 2022

October 19, 2022

November 16, 2022

December 21, 2022

Until it is deemed safe to return to in person meetings all meetings will take place virtually in Zoom. Thank you

UW/40/21

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

From: Rodney Bouchard, Union Water Manager

Date: December 10, 2021

Re: Payments for the UWSS for November 16 to December 9, 2021



Aim:

To provide the Board with a copy of payments made by the Union Water Supply System for November 16 to December 9, 2021.

Recommendation:

For information purposes.

Respectfully submitted,



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

Filename: t:\union wtr\reports to board\2021\uw40-21 payments from nov to december 2021.docx



Vendor : 001150 To STMP000008
 Batch : All
 Department : 0700 To 0700

Cheque Print Date : 16-Nov-2021 To 09-Dec-2021
 Bank : 07 To 08
 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						
200348	Corporation of the Town of Kingsville						
G1364	WATERMAIN BREAK - ASSOCIATED WITH KWT STARTUP				572 08-Nov-2021	19-Nov-2021	
70-7-0700-8750	002202 Watermains						17,116.61
100048	Jacques Daoust Coatings Management Inc						
3601	PAYMENT #9 - KWT REHABILITATION				572 20-Oct-2021	19-Nov-2021	
70-7-0700-8710	Kingsville Water Tower						248.60
70-7-0700-8710	Kingsville Water Tower						1,130.00
70-7-0700-8710	Kingsville Water Tower						9,921.40
180325	Ricoh Canada Inc						
SCO93442562	COPIER CONTRACT				572 29-Oct-2021	19-Nov-2021	
70-5-0700-7010	002070 Office Supplies						86.81
Department Totals :							28,503.42



Vendor : 001150 To STMP000008
 Batch : All
 Department : 0700 To 0700

EFT Paid Date : 16-Nov-2021 To 09-Dec-2021
 Bank : 07 To 08
 Class : All

Vendor Code	Vendor Name	Description			Batch	Inv Date	Inv Due Date	Amount
Invoice No.		CC1	CC2	CC3				
G.L. Account		GL Account Name						
DEPARTMENT 0700		Union Water System						
010045	Air Liquide Canada Inc.							
73642323	CARBON DIOXIDE DELIVERY				574	15-Nov-2021	19-Nov-2021	
70-5-0700-7400	002077			Carbon Dioxide				2,679.03
070100	Golder Associates Ltd							
1200413	MATERIALS TESTING - DAF				574	11-Nov-2021	19-Nov-2021	
70-7-0700-8745	700220			Treatment Plant				6,779.23
080250-UW	Hydro One Networks Inc							
200152134969-I	10-5KWH - METER #17				574	09-Nov-2021	19-Nov-2021	
70-5-0700-7420	002073			Electricity				33.49
190755	Sun Life Assurance Company Of Canada							
DEC-21	DEC-21 UNION WATER LOAN 3724:1				619	03-Dec-2021	03-Dec-2021	
70-5-0700-6000	002020 006901			Debenture Principal				59,304.16
70-5-0700-6100	002010 006901			Debenture Interest				82,918.48
Department Totals :								151,714.39

 Total Unpaid for Approval : 0.00
 Total Manually Paid for Approval : 0.00
 Total Computer Paid for Approval : 28,503.42
 Total EFT Paid for Approval : 151,714.39
 Grand Total ITEMS for Approval : 180,217.81



Vendor : 001150 To STMP000008
 Batch : 631 To 631
 Department : All

EFT Paid Date : 09-Dec-2021 To 10-Dec-2021
 Bank : 07 To 08
 Class : All

Vendor Code	Vendor Name				Batch	Inv Date	Inv Due Date	Amount
Invoice No.	Description							
G.L. Account	CC1	CC2	CC3	GL Account Name				
DEPARTMENT 0700	Union Water System							
010045	Air Liquide Canada Inc.							
73739415	CARBON DIOXIDE TANK RENTAL				631	03-Dec-2021	03-Dec-2021	
70-5-0700-7400	002077			Carbon Dioxide				13,560.00
010103	Associated Engineering (Ont) Ltd							
530264	DAF PHASE 1				631	18-Nov-2021	02-Dec-2021	
70-7-0700-8745	700220			Treatment Plant				34,311.09
030205	CANADIAN SCIENTIFIC LAB SYSTEMS INC							
5391	LAB - FURNITURE AND EQUIPMENT				631	19-Nov-2021	02-Dec-2021	
70-7-0700-8745	700020			Treatment Plant				17,256.63
070065	Gillett Roofing Inc							
00002249	SKYLIGHT ON AMMONIA BLDG				631	22-Nov-2021	02-Dec-2021	
70-7-0700-8745	700020			Treatment Plant				1,531.15
080250-UW	Hydro One Networks Inc							
200141677460-I	11-12,135KWH - RUTHVEN WATER TREATMENT PLANT				631	08-Dec-2021	08-Dec-2021	
70-5-0700-7420	002073			Electricity				51,426.57
200141680692-I	11-5,281KWH - LOW LIFT				631	08-Dec-2021	08-Dec-2021	
70-5-0700-7420	002073			Electricity				29,788.84
200141680894-I	12-1,517KWH - LEAMINGTON WATER TOWER				631	01-Dec-2021	02-Dec-2021	
70-5-0700-7420	002073			Electricity				301.97
200141681706-I	11-37KWH - METER #2				631	29-Nov-2021	02-Dec-2021	
70-5-0700-7420	002073			Electricity				35.36
200141682009-I	12-1,283KWH - ALBUNA WATER TOWER				631	02-Dec-2021	02-Dec-2021	
70-5-0700-7420	002073			Electricity				259.63
200141683019-I	12-17KWH - METER #3				631	01-Dec-2021	02-Dec-2021	
70-5-0700-7420	002073			Electricity				35.85
200141683120-I	12-4KWH - METER #5				631	02-Dec-2021	02-Dec-2021	
70-5-0700-7420	002073			Electricity				33.61
200141683423-I	12-11KWH - METER #6				631	01-Dec-2021	02-Dec-2021	
70-5-0700-7420	002073			Electricity				34.76
200141683524-I	11-18KWH - METER #8				631	29-Nov-2021	02-Dec-2021	
70-5-0700-7420	002073			Electricity				36.00
200141683726-I	11-7KWH - METER #15				631	25-Nov-2021	02-Dec-2021	
70-5-0700-7420	002073			Electricity				33.82
200141687362-I	11-11KWH - METER #22				631	29-Nov-2021	02-Dec-2021	
70-5-0700-7420	002073			Electricity				34.69
200141687766-I	11-8KWH - METER #29				631	29-Nov-2021	02-Dec-2021	
70-5-0700-7420	002073			Electricity				34.10
200141687867-I	11-1KWH - METER #24				631	29-Nov-2021	02-Dec-2021	
70-5-0700-7420	002073			Electricity				32.67
200141690190-I	11-142KWH - METER #26				631	26-Nov-2021	02-Dec-2021	
70-5-0700-7420	002073			Electricity				57.75
200152134969-I	12-21KWH - METER #17				631	08-Dec-2021	08-Dec-2021	
70-5-0700-7420	002073			Electricity				37.28
200208899066-I	11-284KWH - METER #16				631	16-Nov-2021	02-Dec-2021	
70-5-0700-7420	002073			Electricity				84.62
200220161473-I	11-11KWH - METER #14				631	24-Nov-2021	02-Dec-2021	
70-5-0700-7420	002073			Electricity				34.00
130620	Monarch Office Supply Inc							
293685	OFFICE SUPPLIES				631	16-Nov-2021	02-Dec-2021	
70-5-0700-7010	002070			Office Supplies				57.33



Vendor : 001150 To STMP000008
 Batch : 631 To 631
 Department : All

EFT Paid Date : 09-Dec-2021 To 10-Dec-2021
 Bank : 07 To 08
 Class : All

Vendor Code	Vendor Name	Description			Batch	Inv Date	Inv Due Date	Amount	
Invoice No.		CC1	CC2	CC3					
G.L. Account				GL Account Name					
DEPARTMENT 0700				Union Water System					
150365	Ontario Clean Water Agency								
INV0000001651	NOV/21 OPER & MTCE				631	30-Nov-2021	02-Dec-2021		
70-5-0700-6720	002071			OCWA Operating Contract				279,050.71	
190185	SGS Canada Inc								
11465943	KINGSVILLE				631	23-Nov-2021	02-Dec-2021		
70-5-0700-7961	002075			Water Quality/Corrosion Monitoring Prgm				98.31	
11465945	UNION WATER SUPPLY SYSTEM				631	23-Nov-2021	02-Dec-2021		
70-5-0700-7961	002075			Water Quality/Corrosion Monitoring Prgm				1,175.20	
11465947	LAKESHORE				631	23-Nov-2021	02-Dec-2021		
70-5-0700-7961	002075			Water Quality/Corrosion Monitoring Prgm				196.62	
11465948	LEAMINGTON				631	23-Nov-2021	02-Dec-2021		
70-5-0700-7961	002075			Water Quality/Corrosion Monitoring Prgm				98.31	
11465950	ESSEX				631	23-Nov-2021	02-Dec-2021		
70-5-0700-7961	002075			Water Quality/Corrosion Monitoring Prgm				98.31	
230440	Willis Business Law								
295	LEGAL FEES - RESTRUCTURING				631	31-Oct-2021	02-Dec-2021		
70-5-0700-7950	002070			Professional Services				500.03	
Department Totals :									430,235.21

 Total Unpaid for Approval : 0.00
 Total Manually Paid for Approval : 0.00
 Total Computer Paid for Approval : 0.00
 Total EFT Paid for Approval : 430,235.21
 Grand Total ITEMS for Approval : 430,235.21