#### 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

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#### **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 ongoing 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.

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:	\$ 1,381,380
Total Operations, Administrative, Energy:	\$6,141,634

#### Debt Service:

<u>,389,596</u>

Total Debt Service: \$2,389,596

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:

 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:	\$ 50,000
UWSS Infrastructure Review and Master Servicing Plan:	\$ 35,000
Total:	\$340,000

# Operating Expenditure Summary

Fixed Expenditures:	\$8,531,230
Programs and Studies:	\$ 340,000
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

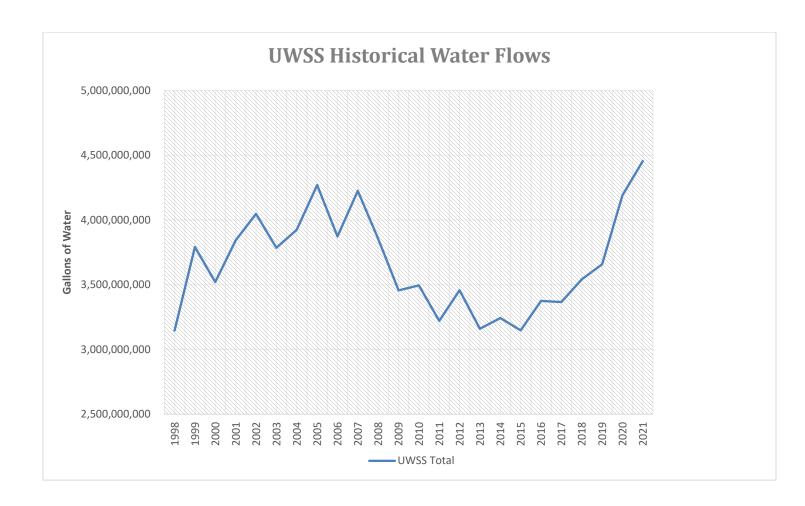
Wholesale water revenue is based on annual water usage by the 4 owner municipalities and the wholesale water rates.

#### 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).

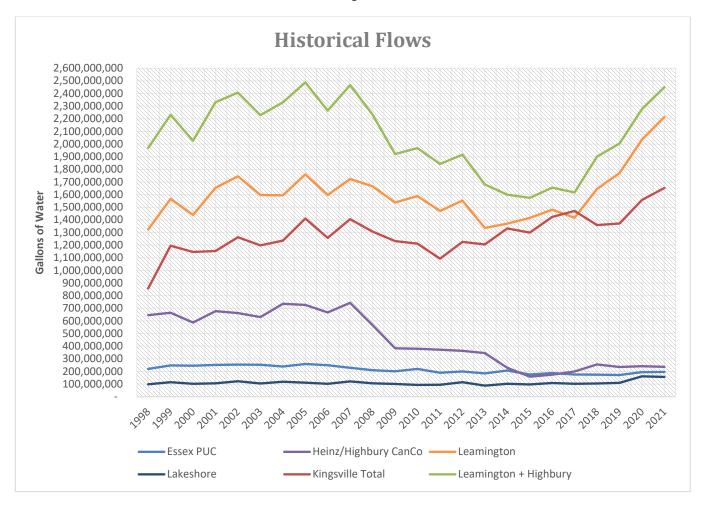
Figure 1



Re:

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.

Re: Proposed 2022 UWSS Operations and Capital Budget

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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: \$ 22,285

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 : \$ 578,396

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: \$8,871,230

Surplus/(Deficit): \$ 6,071,819

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# **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 Floatation 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:	\$	20,000

Total Capital Works for 2022: \$8,340,000

Re: Proposed 2022 UWSS Operations and Capital Budget

#### **BUDGET SUMMARY**

The proposed 2021 budget is summarized as follows:

<b>Total Estimated Revenue:</b> (includes wholesale rate revenue and miscellaneous revenue)	\$14,943,049
<b>Total Estimated Operating Expenditures:</b> (includes Operations Contract, UWSS Admin, Programs & Studies)	
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.

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 (2022-2022) 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.

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Rodney Bouchard, General Manager

Union Water Supply System Joint Board of Management

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# 2022 UWSS PROPOSED OPERATIONS AND CAPITAL BUDGET TABLES AND DETAILS

# UNION WATER SUPPLY SYSTEM 2022 PROPOSED BUDGET

# **Budgeted Water Demand and Wholesale Rate Revenue**

	0004	0004	0000	2222	2224	2225	2222	2225
	2021	2021	2022	2023	2024	2025	2026	2027
Flow Metering Location		Forecasted to Dec	Rate Increase of	Rate Increase of	Rate Increase of	Rate Increase of	Rate Increase of	Rate Increase of
	Budget Estimate	31, 2021	\$0.0269 per m3	\$0.0279 per m3	\$0.0291 per m3	\$0.0302 per m3	\$0.0314 per m3	\$0.0163 per m3
		51, 2021	γ σ σ σ σ σ σ σ σ σ σ σ σ σ σ σ σ σ σ σ	y and an a part and	γ σ σ σ σ σ σ σ σ σ σ σ σ σ σ σ σ σ σ σ	γουστα- μου τους	γ σ σ σ σ σ σ σ σ σ σ σ σ σ σ σ σ σ σ σ	your por and
Essex PUC	881,000	889,810	892,000	<i>896,460</i>	900,942	905,447	909,974	914,524
Gosfield N. Twsp	695,000		690,000	<i>693,450</i>	696,917	700,402	703,904	<i>707,423</i>
Gosfield S. Twsp	5,957,000		6,260,000	6,353,900	<i>6,449,209</i>	6,545,947	<i>6,644,136</i>	<i>6,743,798</i>
Highbury CanCo	1,063,000		1,075,000	<i>1,080,375</i>	1,085,777	1,091,206	1,096,662	<i>1,102,145</i>
Kingsville PUC	688,000	· · · · · · · · · · · · · · · · · · ·	698,000	701,490	704,997	708,522	712,065	715,625
Leamington PUC	9,496,000		10,235,000	10,419,230	10,606,776	10,797,698	10,992,057	11,189,914
Lakeshore	<u>697,000</u>		<u>715,000</u>	<u>718,575</u>	<u>722,168</u>	<u>725,779</u>	<u>729,408</u>	<u>733,055</u>
Total Flow:	19,477,000		20,565,000	20,863,480	21,166,786	21,475,000	21,788,205	22,106,484
	4,284,940,000		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		\$0.6985	\$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	
					_			
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
Rate 3 Revenue	\$0.00	\$0.00	\$0.00		\$0.00		\$0.00	\$0.00
Lifecycle Rate	\$0.0791	the state of the s	\$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 Wholesale Rate Billings Investment Income Sundry revenue Property Rental Revenue	\$0 \$13,080,753 \$405,207 \$21,848 \$0	\$0 \$13,601,129 \$455,000 \$34,707 \$0	\$0 \$14,364,653 \$413,311 \$22,285 \$142,800	\$0 \$16,073,225 \$421,577 \$22,731	\$0 \$16,922,846 \$430,009 \$23,186	\$0 \$17,817,808 \$438,609 \$23,649	\$0 \$18,761,823 \$447,381 \$24,122	\$0 \$19,396,229 \$456,329 \$24,605
Municipal Study Revenue Capital Rate Income - Greenhouse Sector	\$70,000	\$70,000	\$0 \$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		\$432,639	\$435,002	\$440,468	\$446,039	\$451,718	\$457,506
Leamington Assistance	\$30,000	\$30,000	\$50,000	\$50,000 \$75,000	\$50,000 \$75,000	\$50,000 \$75,000	\$50,000 \$75,000	\$50,000 \$75,000
Miscellaneous Legal/Professional fees OCWA Operating Contract	\$45,000 \$3,430,209	\$150,000 \$3,430,209	\$150,000 \$3,533,115	\$75,000 \$3,639,109	\$75,000 \$3,748,282	\$75,000 \$3,860,730	\$75,000 \$3,976,552	\$75,000 \$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 Liquifed 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 Capital Loan for Reservoir and UV - \$30million @ 3% for 10yrs Cottam WM replacement loan - \$12million @ 3% for 10yrs	\$2,370,377	\$2,370,377	\$2,389,596 \$0	\$2,408,934 \$3,698,728	\$2,428,392 \$3,698,728	\$2,449,323 \$3,698,728	\$2,467,669 \$3,698,728	\$0 \$3,698,728 \$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		\$8,340,000	\$2,865,000	\$6,360,000	\$4,480,000	\$2,690,000	\$1,420,000
TOTAL CASH FUNDED CAPITAL EXPENDITURES	\$0 \$13,457,410	\$5,429,750	\$8,340,000	\$2,865,000	\$6,360,000	\$4,480,000	\$2,690,000	\$1,420,000
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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

		2021	2021	2022	2023	2024	2025	2026	2027
Number	Account Description	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
		1			-				-
REVENUE ACCOUNTEES REVENUE	<u>ITS</u>								
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
MOOFILANEOUS	NEW FO	\$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 F 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 Municipal Study Revenue (Windsor Utilities)	\$70,000	\$70,000	\$0	\$650,000 \$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 ACC									
WAGES AND BENE 0700-5000	FITS Salaried	\$187,272	\$187,262	\$191,017	\$194,838	\$198,735	\$202,709	\$206,763	\$210,899
0700-5000	Part time	\$187,272	\$187,262	\$191,017	\$194,838 \$0	\$198,735	\$202,709	\$206,763	\$210,899 \$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 \$253.077	\$253,067	\$0 \$258,139	\$0 \$263,302	\$0 \$268,568	\$0 \$273,939	\$0 \$279,418	\$0 \$285,006
OFFICE OVERHEAD	D, RENTS AND SERVICES	Ψ233,011	Ψ233,007	Ψ230,139	Ψ203,302	Ψ200,300	Ψ213,939	Ψ213,410	Ψ203,000
0700-7010	Office supplies	\$2,000	\$1,500	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
0700-7015 0700-7020	Board expenses Dues, Memberships, Subsc	\$0 \$5,000	\$0 \$3,750	\$0 \$5,000	\$0 \$5,000	\$0 \$5,000	\$0 \$5,000	\$0 \$5,000	\$0 \$5,000
0700-7020	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 0700-7052	Conferences Meeting Expenses	\$6,000 \$2,000	\$1,500 \$500	\$6,000 \$2,000	\$6,000 \$2,000	\$6,000 \$2,000	\$6,000 \$2,000	\$6,000 \$2,000	\$6,000 \$2,000
0700-7070	Uniforms/Clothing	\$500	\$150 \$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 0700-7080 & 7085	Audit Fees Operational Purchases/Maint.	\$6,500 \$17,500	\$6,500 \$0	\$6,500 \$17,500	\$6,700 \$17,500	\$6,900 \$17,500	\$7,100 \$17,500	\$7,300 \$17,500	\$7,500 \$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 0700-7140	Advertising & Promotion Insurance	\$7,000 \$15,000	\$2,500 \$17,818	\$5,000 \$22,000	\$7,000 \$22,000	\$7,000 \$22,000	\$7,000 \$22,000	\$7,000 \$22,000	\$7,000 \$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 0700-7260	Tech Hardware Purchases (non-TCA) Software Licensing and Support	\$5,000 \$25,000	\$4,250 \$35,000	\$5,000 \$35,000	\$5,000 \$35,000	\$5,000 \$35,000	\$5,000 \$35,000	\$5,000 \$35,000	\$5,000 \$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
0700-6720	OCWA Operating Union	\$3,430,209	\$3,430,209		\$3,639,109	\$3,748,282	\$3,860,730	\$3,976,552	\$4,095,849
0700-6750 0700-7380	Property Taxes Leamington Assistance	\$150,160 \$30,000	\$150,160 \$30,000	\$159,500 \$50,000	\$162,690 \$50,000	\$165,944 \$50,000	\$169,263 \$50,000	\$172,648 \$50,000	\$176,101 \$50,000
0700-7410 & 7420	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
0700-7400-002077	CO2 Gas Bulk Purchase	\$100,000	\$25,000	\$110,000	\$112,200	\$114,444	\$116,733	\$119,068	\$121,449
0700-7989-002075 0700-8133-002074	Operational Programs & Studies Residuals Ponds Maintenance	\$430,000 \$200,000	\$349,740 \$160,000	\$340,000 \$175,000	\$250,000 \$150,000	\$150,000 \$150,000	\$150,000 \$150,000	\$150,000 \$150,000	\$150,000 \$150,000
0700-7961-002075	Water Quality/Corrosion Program	\$50,000	\$45,000		\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
0700-8134-002074	Watermain Repairs	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000
	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				<b>A</b>				<b></b>	_
0700-6000 & 6100	Sun Life Debt Obligation  \$30million Capital Loan	\$2,370,377 \$0	\$2,370,377 \$0	\$2,389,596	\$2,408,934 \$3,698,728	\$2,428,392 \$3,698,728	\$2,449,323 \$3,698,728	\$2,467,669 \$3,698,728	\$0 \$3,698,728
	Cottam WM Replacement Loan	\$0	\$0 \$0		ψυ,υθυ,120	ψυ,υθυ,120	φ3,090,720	ψ3,030,720	\$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		\$4,944,885	\$5,643,290	\$6,071,819	\$4,656,822	\$4,681,811	\$5,365,130	\$6,092,868	
SUKPLUS/(DEFICII	) AFTER DEDI	\$4,944,085	<b>\$5,643,</b> ∠90	\$0,U/1,819	<b>\$4,030,822</b>	\$4,001,011	<b>\$3,385,130</b>	<b>₽</b> 0,∪9∠,868	\$7,531,572

					SCADA /	1			
		Treatment Plant		Cottam	Communication/		General/		
		Upgrades &	Low Lift	Booster	Security System	Transmission	Various		
Item Description	Studies	Renewals	Upgrades	Upgrades	Upgrades	Facilities	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							<u>\$35,000</u>	Continuation of 2021 work
Total Studies/Programs	\$340,000							\$340,000	
CAPITAL WORKS/ MAJOR MAINTENANCE									
Low Lift #7 Rehab			\$45,000			<del> </del>		\$45,000	
Low Lift Roof Replacement			\$130,000			<b>†</b>			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									
DAE System Decim for 2 units, construction of Clarifica #2 votrafit /Total project builty									
DAF System Design for 2 units; construction of Clarifier #2 retrofit (Total project budget in \$0.350,000; Estimate \$3.000,000 in 2031)		\$6,250,000						\$6,250,000	
is \$9,250,000; Estimate \$3,000,000 in 2021 and \$6,250,000 in 2022) Kingsville Water Tower new utility Building							\$85,000	\$6,250,000 <u>\$85,000</u>	
Tringsville vvaler flower flew utility building							φου,υυυ	<u> </u>	
Total New Capital Works		\$6,250,000	\$0	\$0	\$0	\$0	\$85,000	\$6,335,000	
TOTAL MAJOR MAINTENANCE and CAPITAL		\$6,990,000							

<u>Item Description</u>	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		\$50,486			Preliminary Report Issued. Final Due December.
New Ruthven WTP Reservoir #3 Study/ Reservoir Optimization	\$30,000		\$26,847	\$0		Delayed due to other work - Reallocate to 2022
Backup power generation/ energy study	\$40,000	\$0	\$40,000	\$0		Delayed due to other work - Reallocate to 2022
UWSS Water Treatment Capacity Testing (Stress Test)	\$0		\$0	. ,		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		\$75,000	\$0		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		Work Complete
Filter Aid System Upgrade	\$60,000		\$60,000	\$0	\$60,000	Delayed due to DAF project - Reallocate to 2022
Filter # 2 - Rehab (recoat filter box; new underdrains)	\$376,205		\$88,496			Work Complete
Filter # 4 - Rehab (recoat filter box; new underdrains)	\$376,205		\$88,496	\$380,169		Work Complete
Highlift Pump #7 - New	\$175,000	•	\$175,000	\$0		Delayed due to DAF project - Reallocate to 2022
Communication System upgrades	\$35,000		\$35,000			Upgrades to be done at Low Lift/Cottam etc. in Oct-Nov 2021
PLC Upgrades - Low Lift, Cottam Booster, Generator B	\$150,000	•	\$64,550	\$85,450	·	New Low Lift PLC Installed. PLC for Cottam and Gen B in 2022
Electrical Upgrades - capacitors, etc.	\$70,000		\$70,000	\$70,000		To be reviewed in 2021 and equip purchased in 2022
Cottam Booster mixing system design and install  Kingsville Water Tower Recoating; Safety Upgrades; Improvements	\$75,000 \$1,650,000		\$75,000 \$33,813	\$0 \$1,737,877		Delayed due to other work - Reallocate to future year Substantially complete - Minor items remaining - Overbudget due error in budget for engineering/contract management; mitigated through other project
Essex Water Tower New Cathodic Protection System	\$40,000	\$33,434	\$6,566	\$33,434	\$6.566	underspending. Work Complete
Distribution System Components	\$150,000		-\$22,769		-\$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		Pipe:Scan Ordered. Meter 1A Rotork ordered in November 2021. Awaiting deliver
Laboratory Upgrades	\$75,000		-\$441	\$75,441		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		\$20,000			Equipment ordered in November. Awaiting delivery
Wastewater Pump - New backup pump	\$50,000	•	\$50,000			Delayed due to other work - Reallocate to 2022
Grounds Improvements (landscaping; asphalt/road repairs, etc)	\$170,000		\$170,000		·	Delayed due to other work - Reallocate to 2022
Ammonia Building Retrofits	\$125,000		\$50,113			Work Ongoing
Fencing - Treatment Plant Property; Leamington Water Tower Property	\$20,000		\$20,000			Delayed due to other work - Reallocate to 2022
Low Lift Wet Well Algae Monitoring System	\$50,000	<u>\$49,650</u>	\$350	<u>\$49,650</u>	<u>\$350</u>	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		\$7,261,208	\$2,000,000	\$7,250,000	Construction underway - Completion May 2022
Kingsville Water Tower new utility Building	<u>\$150,000</u>	<u>\$55,889</u>	<u>\$94,111</u>	<u>\$55,889</u>	\$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					\$8,027,660	
I O I AL MAJOR MAIN I ENANCE and CAPITAL	\$13,457,410	\$4,976,623	\$8,480,787	\$5,429,750	<b>⊅0,0∠1,000</b>	

# UWSS 6-YEAR CAPITAL PLAN TABLES AND DETAILS

# UNION WATER SUPPLY SYSTEM Six Year Recommended Capital / Major Maintenance December 12, 2021

												tal Capital nditures 2022
		2022		2023	2024		2025		2026	2027		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
Clauffection Crotom											\$	
Clarification System Clarifier 1 -											\$	•
Clarifier 1 -	<u> </u>					_					\$	-
Clarifier 2 - Clarifier 3	<u> </u>					_					\$	-
Clarifier 3 Clarifier 4	<u> </u>					_					\$	-
											\$	-
Chemical System Congruent Food System			_	45.000				Φ.	00.000		\$	A = 444
Coagulant Feed System			\$	15,000				\$	20,000		\$ \$	35,000

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		-,				Ė	,			\$	•
Filtration										\$	
Filter 1										\$	
Filter 2										\$	
Filter 3										\$	
Filter 4										\$	
Filter 5										\$	
Filter 6			1			t				\$	
Filter 7			1			t				\$	_
Filter 8			1			t				\$	
Turbidity Meters for Filter Backwash					1	$\vdash$				\$	
Filter Meter Replacements	-				1	1				\$	<u> </u>
Valves	-				1					\$	<u>-</u>
Removal of Microstrainers/ Install of Flooring	-+-		<del>                                     </del>			1				\$	
Pumps										Ψ	-
Backwash Pump 1 - Actuator upgrade										¢	
Backwash Pump 2								\$	150,000	\$ \$	150,000
High Lift Pump 1 *(Note 2) Diesel Pump					1			Φ	130,000		150,000
High Lift Pump 2					1					\$	-
High Lift Pump 3	-+		-		<u> </u>	╁				\$	-
High Lift Pump 4	-+		-		<u> </u>	╁				\$	
High Lift Pump 5					<del> </del>	$\vdash$				\$	-
High Lift Pump 6	-+				<u> </u>					\$	-
High Lift Pump 7		475.000			<u> </u>					\$	475.000
High Lift Pump 8	\$	175,000				╀				\$	175,000
High Lift Pump 9	\$	12,500					000 000			\$	12,500
High Lift Pump No. 10	\$	12,500				\$	200,000			\$	212,500
High Lift Reservoirs and components	<del></del>		_			╀				\$	
-			\$	50,000		-				\$	50,000
Wastewater Pumps (2)	\$	90,000			<u> </u>	\$	90,000			\$	180,000
Surge Tanks (2)	-				1	1					
HL Compressor 1					1	$\vdash$				\$	-
HL Compressor 2	-		_	.=	1	1		\$	20,000	\$	20,000
HL Compressor 3			\$	15,000						\$	15,000
Main Plant Reservoirs and Clearwells											
Reservoir #1					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						1				\$	-

System upgrade and Maintenance	Τ	75,000	ı,	20.000	φ.	20.000	Φ	30,000	Φ	20.000	ı,	30,000	•	225 000
UWSS Wide Communication System Improvements	\$	75,000 30,000	\$		\$ \$	30,000 20,000	\$	20,000	_	30,000 20,000			\$	225,000 130,000
Monitoring Equipment	1	30,000	Φ	20,000	Þ	20,000	Ф	20,000	Ф	20,000	Φ	20,000	Þ	130,000
Turbidity Meter Replacement -													•	
Chlorine Analyzer Replacements	╁		┢		┝						┢		\$	
Blue Green Algae Monitoring Probe	$\vdash$		<del> </del>		┝								\$	<u> </u>
	_												\$	
Building Maintenance	-												_	
Facility Enhancements - General	₩		_		_								\$	-
Maintenance Shop Roof Replacement	₩		_		<u> </u>								\$	
Windows & Doors Replacement	—												\$	-
Admin Building	\$	45,000	_		\$	25,000							\$	70,000
Laboratory Upgrade	ــــــ		_		_								\$	-
New Equipment														
Portable Backup Generator for Low Lift, Water Towers, Emergency	$oldsymbol{ol}}}}}}}}}}}}}}}}}$												\$	-
Cottam Reservoir & Booster PS														
Reservoir													\$	-
Booster Pump 1													\$	
Booster Pump 2													\$	-
Booster Pump 3													\$	-
Booster Pump 4	1												\$	-
VFDs for Pumps 1-4	\$	150,000											\$	150,000
Surge Tanks (2)	Ť	,											\$	-
Compressor	$\vdash$				H								\$	
Reservoir Cover Regrading/Repairs	$\vdash$		$\vdash$		$\vdash$								\$	
Rechlorination system upgrades	$\vdash$		┢		┢						1		\$	
Passive Mixing System Install	$\vdash$		┢		┢								\$	
Distribution System													Ą	-
Leamington Tower													^	
Albuna Tower	_	050 000	┢		┢						Φ.	500,000	\$	
Kingsville Tower	\$	250,000	-		⊢						\$	500,000	\$	750,000
Essex Tower	₩		-		⊢								\$	
	⊢		ļ.,										\$	
Distribution System Maintenance	\$	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)	<b>↓</b>												\$	-
	Ь_												\$	-
NEW CAPITAL PROJECTS													\$	-
Cash Funded Project	ــــــ												\$	-
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)	$ldsymbol{ld}}}}}}$		\$	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	Ī		\$	6,000,000	\$	15,000,000							\$	21,000,000
UV Disinfection - In-reservoir UV vault				•	\$	9,000,000						1	\$	9,000,000
Replacement of 12-inch Cottam Water Main					Ė	. ,			\$	4,000,000	\$	8,000,000		12,000,000
Subtotal Capital and Major Maintenance		\$1,970,000		\$365,000		\$360,000		\$1,780,000		\$690,000		\$1,420,000		6,585,000
Total Cash Funded New Capital Projects		\$6,335,000		\$2,500,000		\$6,000,000		\$2,700,000		\$2,000,000		\$0		19,535,000
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	l	\$0		\$6,000,000		\$24,000,000		\$0		\$4,000,000		\$8,000,000	\$	42,000,000
TOTAL CADITAL STUDIES AND NEW CADITAL	ø	0 205 000	ø	0 865 000	ø	20 250 000	ø	4 490 000	•	6 600 000	ø	0.420.000	\$	-
TOTAL CAPITAL, STUDIES AND NEW CAPITAL	\$	8,305,000		8,865,000 ge 44 of		30,360,000	*	4,480,000	\$	6,690,000	*	9,420,000	*	68,120,000