

Date: April 27, 2021

To: Mayor Andy Mitchell and Council Members

From: Adam Tobin, Project Coordintaor – Water and Sewer

R. Lane Vance, Manager of Financial Services

Subject: Lakefield Water & Sewer Budget 2021

Status: For Endorsement.

Recommendation

That the report related to the Lakefield Water & Sewer Budget 2021 be received for information; and

That Council adopt the Budget Compliance Report for expenses excluded from the 2021 Lakefield Water & Sewer budget as outlined in and as a requirement of Ontario Regulation 284/09; and

That the Department # 30 Lakefield Sewer and Department # 31 Lakefield Water Budget 2021 be approved as presented.

Information

Staff are pleased to present the proposed budgets for department # 30 Lakefield Sewer and department # 31 Lakefield Water for Council's consideration.

As Council will recall we have increased rates in recent years to keep abreast of the increasing costs from Peterborough Utilities Services for the management and operation of the respective systems. The rates were increased in January 2020 in accordance with Council approval of the required by-laws in the fall of 2019.

Based on existing rates in place at this juncture, typical hydro savings and the status of the respective accumulated revenue for both utilities, staff are not recommending a change in rates at this time.

The next review of the adequacy of reserve contributions will come as part of the implementation of the updated Asset Management Plan expected in 2021.

Strategic Plan Reference

Goal # 2 - Achieve excellence in governance and service delivery.

Goal # 3 - Support a sustainable, balanced, and investment-ready community

The annual budget process demonstrates *fiscal responsibility* and ensures that resources are managed responsibly and that taxpayers in the affected area continue to receive the best value for their service area charge.

Financial Impact

No changes are proposed to water and sewer rates at this time.

When the updated Asset Management Plan is presented to Council for discussion, a new capital investment model and corresponding financial strategy will be included.

Attachments

- ➤ PSAB Compliance Report Lakefield Water & Sewer
- Budget Narrative & Worksheet Summary Department # 30 Lakefield Sewer
- Sewer Capital Project Sheets and Related Photos
- Budget Narrative & Worksheet Summary Department # 31 Lakefield Water
- Water Capital Projects Sheets and related photos
- > Reserve Summary for Lakefield Water and Sewer

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Prepared By: Adam Tobin

Project Coordinator – Water and Sewer

R. Lane Vance

Prepared By: R. Lane Vance

Manager of Financial Services/Treasurer

Janice Lavalley

Approved By: Janice Lavalley

CAO

Township of Selwyn 2021 PSAB Budget Reconciliation For Ontario Regulation 284/09

Description	Lakefield
Non Water & Sewer Rates per water & sewer budgets Water & Sewer Rates	1,837,745 2,006,419
Total Township revenues per budget	3,844,164
Less transfer from reserves - water & sewer budgets Less increase in Unfunded Capital	-1,734,306
Total PSAB revenues	2,109,858
Total Township expenses per Water & Sewer budgets Add Annual Amortization (using audit wkg.paper as estimate) Less TCA costs in budget (from below) Less transfer to reserves - water & sewer budgets Less reduction in unfunded capital	3,844,164 547,838 -1,408,709 -1,016,896 0
Total PSAB expenses	1,966,397
Annual surplus in PSAB format	143,461
2021 Budgeted TCA Costs	
Sewer - Plant & Collection Water - Plant & Distribution	791,452 617,257
Total	1,408,709

Department 30 - Lakefield Sewer

Overview

This Department captures all costs related to sanitary sewer in the Lakefield service area and is funded through user fees of the respective sewer ratepayers.

The system uses a combination of gravity sewer mains, coupled with five (5) local pumping stations, to collect and direct wastewater to the main pumping station. The main pumping station located on Water Street is equipped to pump wastewater through one of two forcemains to the lagoon for treatment.

The lagoon consists of an aerated south cell and a non-aerated north cell. The aerated south cell accepts sewage from the pumping station and allows for the majority of treatment through aeration and settling. The north cell operates as a polishing pond to allow for additional settling and passive chemical treatment. All treated effluent is then directed through a bank of ultraviolet lights for final disinfection and then discharged in accordance with strict provincial guidelines.

Revenue

The sewer ratepayers of Lakefield pay their respective costs in their service area through monthly utility billings provided by Peterborough Utilities Services. This aspect of the bill is managed by PUS Customer Services for a flat fee per bill. The majority of ratepayers are billed by flat rate. Large commercial, industrial and institutional customers are billed based on volumes related to the water meter.

The Lakefield College School and SGS Lakefield Research are billed directly by the Township based on existing agreements that have been in place for many years. The actual rates are now updated annually based on sewer rates established by Council through by-law.

The flat rates for 2021 were already approved by Council and reflect a 0% increase over the 2020 levels.

Expenditures

The majority of the operating expenses that the Township needs to recover are those costs paid to Peterborough Utilities Services for operating & managing the system and providing related billing services.

In addition to costs paid directly to PUS through agreements, additional costs are also budgeted to offset unforeseen expenses, emergency call-ins and specific capital maintenance items.

Given the significant capital expenditures over the last couple of years, reserve levels have experienced a decline, however through ongoing annual reserve contributions the sewer utility will be prepared for future expenditures planned or unexpected.

Department 30 - Lakefield Sewer

In addition, a portion of the George Street Pumping Station project and the LSDA sewer connection will be eligible for development charge funding. These figures are currently being updated and any eligible amounts will be repaid to the sewer reserve as they become available or adjusted at the completion of the project.

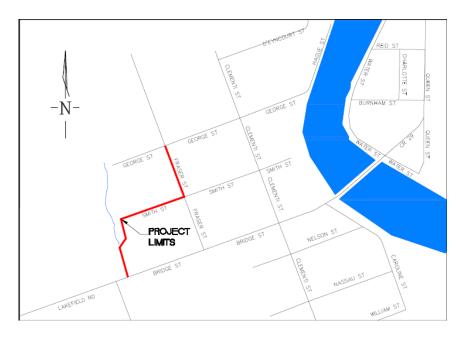
Capital Projects

The various components of the Lakefield sanitary sewer collection system are documented in the Township's Tangible Capital Asset data register and in the Selwyn Township Asset Management Plan. As staff is able to work through capital planning by components with the Township engineering firm, asset data is becoming more complete and refinements are improving long term capital budget plans.

The Township continues to reinvest in maintenance and upgrade activities to assure the long term reliability of the wastewater system. The back-up generator replacement at the Main Pumping Station is a great example of such investments.

In terms of expansion, with the completion of the George Street Pumping Station, this year's significant project is the sewer main link for the Lakefield South Development Area.

Please see the attachments for more details on these important system improvements.



Department 30 - Lakefield Sewer

GL Account	Details	2019 Year End Actuals	2019 Approved Budget	2020 Year to Date Actuals	2020 Approved Budget	2021 Proposed Budget
	<u>Revenues</u>					
	Grants and Receipts					
1-3100-3100	Provincial Grants	1,422	0.00	23,317	23,229	0
	Operating Sales - Revenues & Fees					
1-3200-3200	Bank & Investment Interest	14,182	13,500	0.00	12,806	6,824
1-3400-3400	Miscellaneous Receipts	31,872	31,862	0.00	0.00	0
1-3600-3601	Res. & Comm. Sewer Rates	930,996	1,090,471	1,017,346	940,306	963,921
1-3600-3603	Other Municipalities Rate	28,169	28,559	17,781	28,451	23,500
	<u>Transfers In</u>					
1-3900-3970	From Accumulated Revenue	70,468	70,468	63,891	63,891	66,184
1-3900-3990	From Reserves	650,406	957,468	75,572	66,988	934,952
	Total Revenue	1,727,516	2,192,328	1,197,907	1,135,671	1,995,381
	Expenditures					
	Operations & Overhead					
1-4000-5100	Salaries & Wages	39,195	47,546	44,408	49,091	42,000
1-4000-5101	P/T - Contract & Student Wages	0.00	0.00	1,976	0.00	0
1-4000-5150	Payroll Benefits	13,518	13,665	15,065	14,110	14,000
1-4000-5180	Mileage	328	750	0.00	750	750
1-4000-5190	Training & Seminars	1,422	2,500	255	2,500	2,500
1-4000-6250	Memberships	402	200	125	200	200
1-4000-6260	Office Supplies	57	1,500	0.00	1,500	1,500
1-4000-6280	Advertising	254	1,000	18	1,000	1,000
1-4000-6310	Audit Fees	2,000	2,000	2,000	2,000	2,000
1-4000-6320	Consulting Fees	0.00	5,000	23,631	28,229	5,000
1-4000-6326	Utility Billing Costs	22,658	22,702	23,529	23,337	23,952
1-4000-6330	Insurance	10,668	10,668	12,877	12,877	10,675

		2019	2019	2020	2020	2021
		Year End	Approved	Year to Date	Approved	Proposed
GL Account	Details	Actuals	Budget	Actuals	Budget	Budget
1-4000-6515	Permits/Licences	631	631	631	631	631
1-4000-6750	Telephone	135	135	172	135	175
1-4000-6840	Taxes/Easements/PILs	17,498	14,750	19,511	17,750	19,998
1-4600-6320	Sewer - General - Lab Fees	9,036	7,500	9,127	7,500	9,300
1-4600-6325	Sewer - General - PUS Operating Agreement	400,382	415,866	412,381	412,394	424,766
1-4601-6560	Main Sewage Pumping Station - Equipment Maintenance	8,853	7,500	1,199	7,500	5,000
1-4601-6800	Main Sewage Pumping Station - Hydro	-11,996	-5,675	-7,508	-5,500	-5,000
1-4602-6560	Pumping Stations - Equipment Maintenance	6,681	5,000	5,401	5,000	5,000
1-4602-6800	Pumping Stations - Hydro	-3,007	-1,115	-1,656	-1,000	-1,000
1-4603-5100	Lagoon - Salaries & Wages	878	2,500	1,168	4,000	2,000
1-4603-6200	Lagoon - Materials/Supplies	1,922	5,750	45	5,000	0
1-4603-6560	Lagoon - Equipment Maintenance	7,831	12,500	9,301	17,500	12,000
1-4603-6800	Lagoon - Hydro	-25,549	-12,437	-13,719	-12,000	-12,000
1-4604-5100	Sewer Mains & Connections - Salaries & Wages	570	2,500	0.00	2,500	1,000
1-4604-6360	Sewer Mains & Connections - Sub-Contract	4,115	13,500	36,309	20,000	25,000
1-4604-6500	Sewer Mains & Connections - Equipment Rental	636	2,000	0.00	2,000	1,000
	Capital Purchases					
2-4601-6360	Main Sewage Pumping Station - Sub-Contract	7,023	15,000	0.00	6,815	159,448
2-4602-6360	Pumping Stations - Sub-Contract	164,936	329,248	22,530	31,176	55,984
2-4602-6370	Pumping Stations - Engineering/Consulting	36,427	54,185	1,755	0.00	0
2-4603-6360	Lagoon - Sub-Contract	441,352	528,973	0	0.00	0
2-4603-6370	Lagoon - Engineering/Consulting	668	0.00	0.00	0.00	0
2-4604-6360	Sewer Mains & Connections - Sub-Contract	0.00	0.00	26,320	11,234	666,922
2-4604-6370	Sewer Mains & Connections - Engineering/Consulting	13,627	30,062	28,174	17,763	52,598
	Transfers Out					
1-4900-6960	To Other Depts	21,293	21,293	21,698	21,698	22,023
1-4900-6970	To Accummulated Revenue	63,891	60,131	66,184	65,175	66,959
1-4900-6990	To Reserves	469,182	575,000	435,000	362,806	380,000
	Total Expenses	1,727,516	2,192,328	1,197,907	1,135,671	1,995,381
	Balance	0	0	0	0	0

Township of Selwyn Water and Sewer Budget			Date:	April 27, 2021
Capital Budget 2021				
Department Name:	Sewer	General Ledger Code(s):		2.30.4601.6360
Capital Project Name:	Generator Replacement - Water Street Sewa	age Pumping Station		
Description:	1			
Replace existing 125 kW indoor generator	with 200 kW stand alone unitl			
Attachments:	Photo			
Supporting Rationale:	I	Sub-Committee Support:]	Not Applicable
	TSSA were estimated to be approximately 50-60% of toward for dollar. Having regard for future upgrade require			
Strategic Plan/Related Plans Reference: Achieve excellence in governance and services.	vice delivery.			
Estimated Total Project Cost	\$159,448	Costs in Current Year's Budget] ,	\$159,448
Financial Plan:	I			
Oversizing of the generator unit will be recoreserve.	overed though future development charges. The remaining	g funding for these improvements will co	ome from	the Lakefield Water
Part of Long Term Replacement Schedule:	Capital Project			
Other Key Considerations: (accessibility, impact on future operations, ann	ual savings, etc.)			

Existing 125 kW Water Street SPS Generator



Water and Sewer Budget				
Capital Budget 2021				
Department Name:	Sewer		General Ledger Code(s):	2.30.4602.6360
Capital Project Name:	Park Sewage Pumping S	tation Control Panel R	Replacement & George Street S	PS Radio Re-direct
Description:	1			
Existing Park SPS panel and associated or Treatment Plant. Re-direction includes inst			be re-directed from Elevated Tank to	communicate directly with Water
Attachments:	Photo			
Supporting Rationale:	1		Sub-Committee Support:	Not Applicable
Existing panel and some components have nesting in cabinet. Pumping station is 45 ye to COVID related backlogs with panel man alarm monitoring, as well as a Generlink so experienced with the current radio alignment different equipment will increase reliability.	ears old and has required very litt ufacturers and electrical installer ocket mounted transfer switch to	le capital maintenance to the sthis project was not compleonnect back-up power sup	his point. Panel component was original leted in 2020. New panel will include ra ply. Since commissioning intermittent of	Ily approved in 2020 budget, due dio communication for flow and communication has been
Strategic Plan/Related Plans Reference:	I			
Achieve excellence in governance and serv	vice delivery.			
Estimated Total Project Cost	I <u> </u>	\$55,984	Costs in Current Year's Budget	\$55,984
Financial Plan:	1			
This project is capital maintenance and as	such is being funded through Se	ewer Reserves.		
Part of Long Term Replacement Schedule:	Capital Project			
Other Key Considerations: (accessibility, impact on future operations, annual content of the co	nual savings, etc.)			

Date:

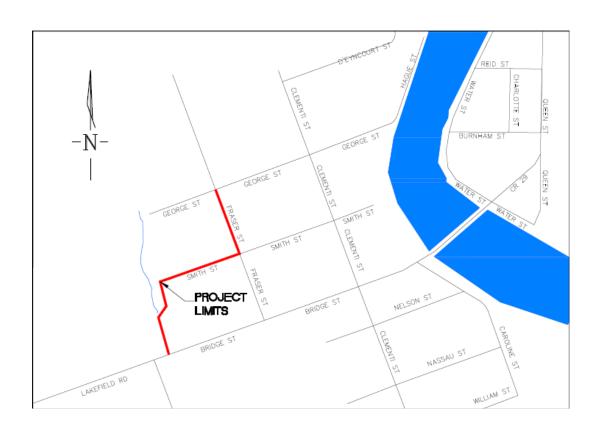
April 27, 2021

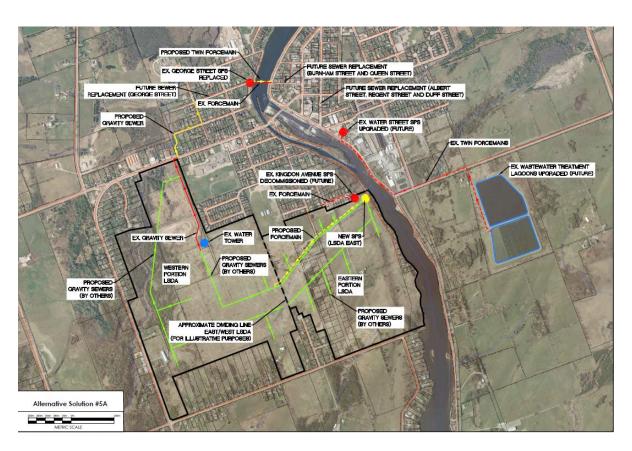
Township of Selwyn

Park SPS



Township of Selwyn Water and Sewer Budget				Date:	April 27, 2021
Capital Budget 2021					
Department Name:	Sewer		General Ledger Code(s):]	2.30.4604.6360
Capital Project Name:	Lakefield Sanitary S	sewer Extension			
Description:					
Existing dead end sanitary manhole on Br East along Smith to Fraser Street.	ridge Street, provided for fut	ure connection of the Lakefie	ld South Development Area, will be exter	nded Nort	th to Smith Street and
Attachments:	Photo				
Supporting Rationale:			Sub-Committee Support:]	Not Applicable
As identified in the Lakefield Sanitary Serfor the community of Lakefield are within tultimately recommending "Alternative 5a" connect to the municipal wastewater system.	the Lakefield South Develop . The installation route of the	ment Area (LSDA). Through	this assessment various servicing option	s were re	viewed in detail,
Strategic Plan/Related Plans Reference: Achieve excellence in governance and se	rvice delivery.				
Estimated Total Project Cost		\$697,241	Costs in Current Year's Budget]	\$697,241
Financial Plan: This project will impact multiple department contributions from a special service area of Area, development charges will also be contributed as a special service area of Area, development charges will also be contributed as a special service area of Area, development charges will also be contributed as a special service and the special service area of the service and the service area of the service and the service area of the	charge for new sanitary later ollected to recover a portion	rals installed along Smith Stre			
(accessibility, impact on future operations, an	nnual savings, etc.)				





Water and Sewer Budget			
Capital Budget 2021			
Department Name:	Sewer	General Ledger Code(s):	2.30.4604.6360
Capital Project Name:	Strickland St. Sewer Service Repair		
Description:	I		
Install sanitary clean-out for access and inst	tall Cured-In-Place Pipe (CIPP) in failing sanitary lateral		
Attachments:	Photo		
Supporting Rationale:	1	Sub-Committee Support:	Not Applicable
Municipal portion of sanitary lateral is failing cost, therefore included as a capital invetsm	g , CIPP offers a trenchless solution and minimizes damage t nnet.	o yard/laneway. Project is marginally r	nore than routine maintenance
Strategic Plan/Related Plans Reference: Achieve excellence in governance and serv	rice delivery.		
Estimated Total Project Cost	\$5,088	Costs in Current Year's Budget	\$5,088
Financial Plan:	I		
This project is capital maintenance and as s	such is being funded from the Lakefield Sewer Reserve.		
Part of Long Term Replacement Schedule:	Capital Project		
Other Key Considerations: (accessibility, impact on future operations, annual	ual savings, etc.)		

Date:

April 27, 2021

Township of Selwyn

Cured-In-Place Pipe (CIPP)



Township of Selwyn Water and Sewer Budget				Date:	April 27, 2021
Capital Budget 2021					
Department Name:	Sewer		General Ledger Code(s):	2.	30.4604.6360
Capital Project Name:	Lagoon Outfall Pipe - Section	Replacement			
Description:	I				
Replacing approximately 10 m section of La Pipe (CSP).	agoon discharge piping under road allov	wance on Water Street	with PVC, existing material identifie	ed in CCTV	as Corrugated Steel
Attachments:]				
Supporting Rationale:	1	!	Sub-Committee Support:	No	ot Applicable
Lagoon outfall piping is critical discharge po common in municipal wastewater systems.					ulverts but not
Strategic Plan/Related Plans Reference: Achieve excellence in governance and serv] vice delivery.				
Estimated Total Project Cost	\$1	7,191	Costs in Current Year's Budget	_	\$17,191
Financial Plan:]				
This project is capital maintenance and as	such is being funded from the Lakefield	Sewer Reserve.			
Part of Long Term Replacement Schedule:	Capital Project				
Other Key Considerations: (accessibility, impact on future operations, ann	ual savings, etc.)				

Department 31 – Lakefield Water

Overview

This Department captures all costs related to water in the Lakefield service area and is funded through user fees of the respective water ratepayers.

The water distribution system consists of water mains, hydrants, a booster station, a standpipe and elevated storage tank (water tower). The standpipe and elevated storage tank allow the system to operate as one pressure zone, save and except a small area adjacent to the base of the standpipe which operates in isolation with assistance from the booster station.

The water treatment plant is located at Water Street North and consists of an intake from the Otonabee River, a low lift pumping system located within the water treatment plant, and a treatment process using coagulation, sedimentation, filtration and disinfection. The plant has a two-celled baffled clearwell and a high lift pumping facility discharging to the distribution system.

Revenue

The water ratepayers of Lakefield pay their respective costs in their service area through monthly utility billings provided by Peterborough Utilities Services. This aspect of the bill is managed by PUS customer service for a flat fee per bill. The majority of ratepayers are billed by flat rate. Large commercial, industrial and institutional customers are billed based on volumes captured through water meters.

The Lakefield College School is billed directly by the Township based on an existing arrangement that has been in place for many years at the request of the Ministry of the Environment. The rates are now updated annually based on water rates established by Council through by-law.

The flat rates for 2021 were already approved by Council and reflect a no increase over the 2020 levels. These rates approved by by-law in the fall of 2019 have been in effect as of the January 2021 billing cycle. No additional rate increase is proposed at this time.

Expenditures

The majority of the operating expenses that the Township needs to recover are those costs paid to Peterborough Utilities Services for operating & managing the system and providing related billing services.

Department 31 – Lakefield Water

In addition to costs paid directly to PUS through agreement, additional costs are also budgeted to offset unforeseen expenses, emergency call-ins and specific capital maintenance items.

In comparison to the sewer system, the water system typically includes more additional charges including auto-dialer call outs for fluctuating readings, watermain breaks and related restoration costs.

Capital Projects

As previously noted in the narrative for the sewer department, the various components of the Lakefield water distribution system are also documented in the Township's Tangible Capital Asset data register and in the Selwyn Township Asset Management Plan.

There are a number of significant investments this year as critical pieces of equipment have reached their end of useful life.

Please see the attachments for more details on these important system improvements.



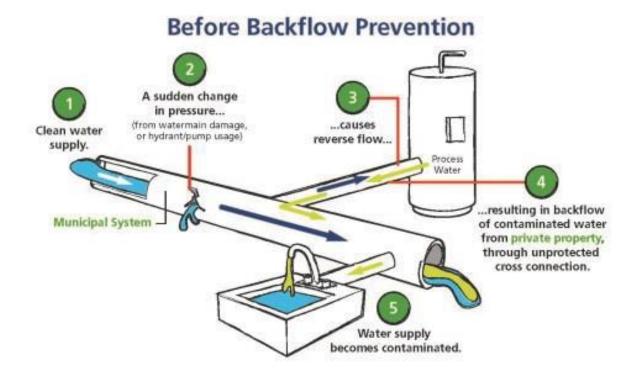
Department 31 - Lakefield Water

Cl. Account	Deteile	2019 Year End	2019 Approved	2020 Year to Date	2020 Approved	2020 Approved
GL Account	Details	Actuals	Budget	Actuals	Budget	Budget
	Revenues					
	Grants and Receipts					
1-3100-3100	Provincial Grants	1,422	0	24,001	24,177	0
	Operating Sales - Revenues & Fees					
1-3200-3200		80,740	60,000	0	56,923	60,426
1-3400-3400	· ·	11,000	11,000	253,776	253,560	11,000
1-3700-3701	Res. & Comm. Water Rates	979,955	1,144,412	1,101,956	989,754	1,014,498
1-3700-3703	Water - LCS	36,984	44,842	24,096	37,354	28,000
1-3700-3704	Penalty Charges	3,530	4,071	1,122	3,565	1,000
1-3700-3705	Local Imprvt./Special Charges	689	689	689	689	689
	Transfers In					
1-3900-3970	From Accumulated Revenue	134,341	134,341	112,401	112,401	96,281
1-3900-3990	From Reserves	249,217	246,347	43,178	67,397	636,889
	Total Revenue	1,497,877	1,645,702	1,561,218	1,545,820	1,848,783
	<u>Expenditures</u>					
	Operations & Overhead					
1-4000-5100		36,126	39,146	43,582	40,691	42,000
1-4000-5101	P/T - Contract & Student Wages	0.00	0.00	229	0.00	0
1-4000-5150	Payroll Benefits	11,028	12,619	11,085	13,080	14,000
1-4000-5180	Mileage	604	1,250	275	1,250	1,250
1-4000-5190	Training & Seminars	3,925	2,500	215	2,500	2,500
1-4000-6250	Memberships	725	750	789	774	774
1-4000-6260	Office Supplies	0.00	1,500	32	1,500	1,500
1-4000-6280	Advertising	52	1,000	66	1,000	1,000
1-4000-6310	Audit Fees	4,311	4,500	4,967	4,500	4,500
1-4000-6320	Consulting Fees	0.00	5,000	24,316	29,177	19,632

GL Account 1-4000-6326	Details Littlitus Billing Coots	Year End Actuals	Approved	Year to Date	Approved	Approved
		Actuals				1 1
1-4000-6326	Little Dilling Coots	Actuals	Budget	Actuals	Budget	Budget
	Utility Billing Costs	23,582	23,675	24,005	24,290	24,924
1-4000-6330	Insurance	11,992	11,992	15,045	15,045	20,772
1-4000-6515	Permits/Licences	1,489	739	739	739	739
1-4000-6750	Telephone	135	135	172	135	175
1-4000-6840	Taxes/Easements/PILs	10,203	9,950	9,377	10,300	9,611
1-4700-6320	Water Expenses - General - Consulting Fees	10,105	8,000	9,971	8,000	10,100
1-4700-6325	Water Expenses - General - PUS Operating Agreement	420,011	424,890	430,509	432,611	445,589
1-4700-6811	Water Expenses - General - Excess Flows	-12,427	0.00	-7,729	0.00	0
1-4701-6560	Water Treatment Plant - Equipment Maintenance	4,651	30,500	6,167	30,500	10,000
1-4701-6800	Water Treatment Plant - Hydro	-50,661	-24,447	-25,494	-24,000	-24,000
1-4702-6560	Water Booster Station - Equipment Maintenance	0.00	1,500	0.00	1,500	0
1-4702-6800	Water Booster Station - Hydro	-800	-640	-150	-400	-250
1-4703-6560	Water Tower/Standpipe - Equipment Maintenance	0.00	5,000	0.00	5,000	10,000
1-4703-6800	Water Tower/Standpipe - Hydro	-5,008	-2,046	-2,491	-2,250	2,250
1-4704-6360	Watermains & Connections - Sub-Contract	704	10,000	1,490	12,500	2,500
1-4705-6360	Watermain Breaks - Sub-Contract	7,372	45,000	13,986	40,000	30,000
1-4706-6360	Water Meters - Sub-Contract	1,106	4,500	13,911	4,500	5,000
1-4707-6360	Water Hydrants - Sub-Contract	0.00	5,000	0.00	5,000	5,000
	Capital Purchases					
2-4701-6360	Water Treatment Plant - Sub-Contract	244,811	234,566	38,090	34,566	280,385
2-4701-6370	Water Treatment Plant - Engineering/Consulting	4,405	11,781	0.00	0.00	2,500
2-4703-6360	Water Tower/Standpipe - Sub-Contract	0.00	0.00	5,088	0.00	5,000
2-4703-6370	Water Tower/Standpipe - Engineering/Consulting	0.00	0.00	0.00	10,000	14,572
2-4704-6360	Watermains & Connections - Sub-Contract	0.00	0.00	0.00	13,475	275,036
2-4704-6370	Watermains & Connections - Engineering/Consulting	0.00	0.00	0.00	9,356	24,500
2-4707-6360	Water Hydrants - Sub-Contract	0.00	0.00	0.00	0	15,264
	Transfers Out					
1-4900-6960	To Other Depts	21,293	21,293	21,698	21,698	22,023
1-4900-6970	To Accummulated Revenue	112,401	136,049	96,281	100,000	94,937
1-4900-6990	To Reserves	635,740	620,000	825,000	698,783	475,000
	Total Expenses	1,497,877	1,645,702	1,561,218	1,545,820	1,848,783
	Balance	0	0	0	0	0

Township of Selwyn Water and Sewer Budget				Date:	April 27, 2021
Capital Budget 2021					
Department Name:	Water		General Ledger Code(s):		1.31.4000.6320
Capital Project Name:	Cross Connection Co	ontrol Program			
Description:					
Creation of a Cross-Connection Control P	rogram for implementation in	the Lakefield water service	area.		
Attachments:	Photo				
Supporting Rationale:			Sub-Committee Support:		Not Applicable
Backflow into a public water system can p commercial and institutional buildings as win the Ontario Building Code. Due to limite local professionals to complete the initial states.	well as many home businesse ed training options in 2020, rel	es. New buildings or those un lated to COVID-19 restriction	nder renovation are covered by protection	on from co	ontamination requirements
Strategic Plan/Related Plans Reference: Achieve excellence in governance and se	rvice delivery.				
Estimated Total Project Cost] .	\$37,992	Costs in Current Year's Budget		\$14,633
Financial Plan:					
This is a new program within the water de	partment and initial set up & r	related training is being fund	ed from the Lakefield Water Reserve.		
Part of Long Term Replacement Schedule	e: Capital Project				
Other Key Considerations: (accessibility, impact on future operations, an	nual savings, etc.)				

This would be a multi-year project with expenses extending into 2022.



Township of Selwyn Water and Sewer Budget				Date:	April 27, 2021
Capital Budget 2021					
Department Name:	Water		General Ledger Code(s):]	2.31.4701.6360
Capital Project Name:	Generator Replacement	- Water Treatment Pla	ant		
Description:					
Replace existing 100 kW indoor diesel	generator with new 200 kW stand a	lone model.			
Attachments:	Photo				
Supporting Rationale:			Sub-Committee Support:]	Not Applicable
The rebuild/upgrades originally required the full replacement was seen to be bet expected future demand.					
Strategic Plan/Related Plans Reference	e:]				
Achieve excellence in governance and	service delivery.				
Estimated Total Project Cost	_	\$146,909	Costs in Current Year's Budget]	\$146,909
Financial Plan:					
Oversizing of the generator unit will be reserve .	recovered though future developme	ent charges. The remaining	funding for these improvements will o	come fror	m the Lakefield Water
Part of Long Term Replacement Sched	dule: Capital Project				
Other Key Considerations: (accessibility, impact on future operations,	annual savings, etc.)				
Generator system replacement at these	e facilities will improve emissions as	new units are built to curre	nt standards		

Existing Water Treatment Plant Generator System



Township of Selwyn Water and Sewer Budget			Date:	April 27, 2021
Capital Budget 2021				
Department Name:	Water	General Ledger Code(s):		2.31.4701.6360
Capital Project Name:	Actiflo Sand Recirculation Pump Replacement			
Description:	I			
Replacement of one Actiflo Sand Recircula	ition Pump and fittings.			
Attachments:	Photo			
Supporting Rationale:		Sub-Committee Support:		Not Applicable
Sand recirculation pump is original from Ac of 2020.	tiflo package plant system installed in 2000. One of the two o	riginal sand pumps failed and was s	ubseque	ently replaced in the sprinc
Strategic Plan/Related Plans Reference: Achieve excellence in governance and serv	vice delivery.			
Estimated Total Project Cost	<u>\$17,261</u>	Costs in Current Year's Budget		\$17,261
Financial Plan:	1			
This project is capital maintenance and as	such is being funded from the Lakefield Water Reserve.			
Part of Long Term Replacement Schedule:	Capital Project			
Other Key Considerations: (accessibility, impact on future operations, ann	ual savings, etc.)			

Original Sand Recirculation Pumps



Township of Selwyn Water and Sewer Budget				Date:	April 27, 2021
Capital Budget 2021					
Department Name:]Water		General Ledger Code(s):]	2.31.4701.6360
Capital Project Name:	Actiflo Lamella Tube Set	ttlers			
Description:]				
Replace existing Lamella packs in Actiflo Tr	rains 1 & 2				
Attachments:	Photo				
Supporting Rationale:	1		Sub-Committee Support:]	Not Applicable
Lamella tube settlers are a key component are currently in use are original with the Act breaking off and interfering with other proce cleaning tubes as part of a maintenance pro-	iflo installation in 2000. The tubess equipment. While replacing	es are made of PVC and hav	ve fatigued over the years, they are r	now brittle	e and pieces are prone to
Strategic Plan/Related Plans Reference: Achieve excellence in governance and serv	ice delivery.				
Estimated Total Project Cost	l <u> </u>	\$23,151	Costs in Current Year's Budget]	\$23,151
Financial Plan:	1				
This project is capital maintenance and as s	such is being funded from the La	akefield Water Reserve.			
Part of Long Term Replacement Schedule:	Capital Project				
Other Key Considerations: (accessibility, impact on future operations, annual] ual savings, etc.)				



Township of Selwyn Water and Sewer Budget				Date:	April 27, 2021
Capital Budget 2021					
Department Name:	Water		General Ledger Code(s):]	2.31.4701.6360
Capital Project Name:	Low lift Pump Replacem	nent			
Description:	1				
Replace existing low lift pump with larger m	nodel complete with variable free	quency drive (VFD).			
Attachments:	Photo				
Supporting Rationale:	1		Sub-Committee Support:]	Not Applicable
Existing low lift pumps are 1980's vintage a variable frequency drive with motor will allow			plant demand given for selected repl	lacement	pump. Incorporation of a
Strategic Plan/Related Plans Reference:	I				
Achieve excellence in governance and serv	vice delivery.				
Estimated Total Project Cost		\$50,832	Costs in Current Year's Budget]	\$50,832
Financial Plan:	I				
This project is capital maintenance and as	such is being funded from the L	akefield Water Reserve.			
Part of Long Term Replacement Schedule:	Capital Project				
Other Key Considerations: (accessibility, impact on future operations, annual	ual savings, etc.)				



Township of Selwyn				Date:	April 27, 2021
Water and Sewer Budget					
Capital Budget 2021					
Department Name:	Water		General Ledger Code(s):		2.31.4701.6360
Capital Project Name:	Radio Communication Up	grade			
Description:					
Installation of new sectoral antenna and GE	Orbit radio modem.				
Attachments:	Photo				
Supporting Rationale:			Sub-Committee Support:		Not Applicable
Existing radio communication network betwee a few years. Integrating facilities with new GI platforms, positioning the system well for future.	E Orbit radios and a new sectoral	antenna installation at the			
Strategic Plan/Related Plans Reference: Achieve excellence in governance and service	ce delivery.				
Estimated Total Project Cost		\$5,912	Costs in Current Year's Budget		\$5,912
Financial Plan:					
This project is capital maintenance and as su	uch is being funded from the Lake	efield Water Reserve.			
Part of Long Term Replacement Schedule:	Capital Project				
Other Key Considerations: (accessibility, impact on future operations, annual	al savings, etc.)				

Proactive integration of new radio platform will reduce operational down time.

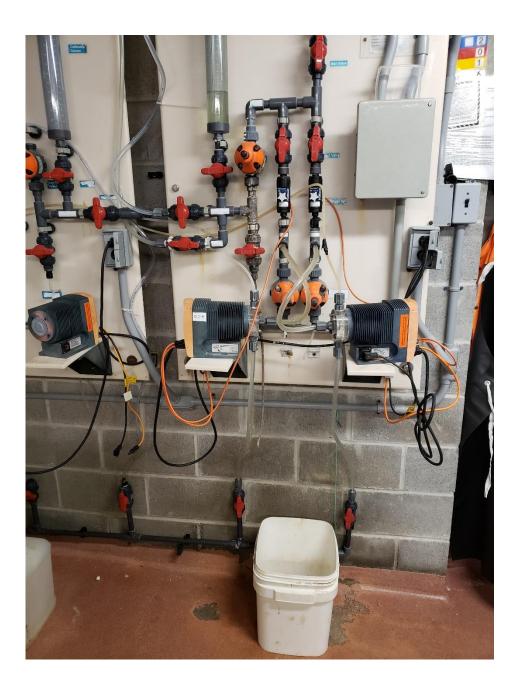
Existing WTP Radio Antenna and Mast



Township of Selwyn Water and Sewer Budget	Date:	April 27, 2021
Capital Budget 2021		
Department Name: Water General Ledger Code(s):		2.31.4701.6360
Capital Project Name: Sodium Hypochlorite Pump and Panel Replacement		
Description:		
Replace existing solenoid pumps and panel with new packaged pump panel.		
Attachments: Photo		
Supporting Rationale: Sub-Committee Support:		Not Applicable
Sodium Hypochlorite pump and panels were installed during plant expansion in 2003. Pumps and panel components have since reached en replacement. Multiple parts have been replaced in original solenoid pumps and panel fittings have developed slow leaks. Peristaltic pumps consistent dosing. New panel to incorporate ChemFlare fittings which are more chemical resistant.		
Strategic Plan/Related Plans Reference:		
Achieve excellence in governance and service delivery.		
Estimated Total Project Cost \$17,875 Costs in Current Year's Budget		\$17,875
Financial Plan:		
This project is capital maintenance and as such is being funded from the Lakefield Water Reserve.		
Part of Long Term Replacement Schedule: Capital Project		
Other Key Considerations: (accessibility, impact on future operations, annual savings, etc.)		

Proactive replacement of these components will reduce emergency repairs and operational downtime.

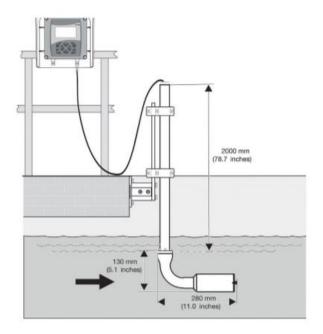
Existing pumps and panel



Township of Selwyn				Date:	April 27, 2021
Water and Sewer Budget					
Capital Budget 2021					
Department Name:	Water		General Ledger Code(s):		2.31.4701.6360
Capital Project Name:	Turbidimeter Replacement				
Description:					
Replace existing HACH TU5300 Actiflo and	Clarifier turbidimeters with submer	rsible in-line analyzers.			
Attachments:	Photo				
Supporting Rationale:	I		Sub-Committee Support:		Not Applicable
These process sampling locations are a bet discontinued 1720E models currently being			s will allow operations to use the TU5	5300 mc	odels as replacements for
Strategic Plan/Related Plans Reference: Achieve excellence in governance and serv	I ice delivery.				
Estimated Total Project Cost	<u></u>	\$18,445	Costs in Current Year's Budget		\$18,445
Financial Plan: This project is capital maintenance and as s	Isuch is being funded from the Lake	field Water Reserve.			
Part of Long Term Replacement Schedule:	Capital Project				
Other Key Considerations: (accessibility, impact on future operations, annu-	lal savings, etc.)				

Proactively installing these units will give operations on-site inventory to replace discontinued models as required, reducing operational down time.

 $Solitax\ Immersion\ Sensor\ -\ compatible\ with\ existing\ SC200\ controller.$









Township of Selwyn Water and Sewer Budget				Date:	April 27, 2021
Capital Budget 2021					
Department Name:	Water		General Ledger Code(s):]	2.31.4703.6370
Capital Project Name:	Standpipe Repair -	Engineering			
Description:					
Consultation with engineering firm familia Standpipe.	ar with design and operatior	n of Lakefield water system to de	termine next steps in repair and operati	on of the	Strickland Street
Attachments:	Photo				
Supporting Rationale:			Sub-Committee Support:]	Not Applicable
The standpipe was refurbished in 2012 a formation within structure. Implementation should now allow for safe operation of the	on of new control narrative a	it Water Treatment Plant has der	nonstrated adequate levels of daily turn	over in o	distribution storage. This
Strategic Plan/Related Plans Reference Achieve excellence in governance and s					
Estimated Total Project Cost		<u>\$14,572</u>	Costs in Current Year's Budget]	\$14,572
Financial Plan:					
This project is capital maintenance and a	as such is being funded fron	n the Lakefield Water Reserve.			
Part of Long Term Replacement Schedu	ule: Capital Project				
Other Key Considerations: (accessibility, impact on future operations, a	annual savings, etc.)				

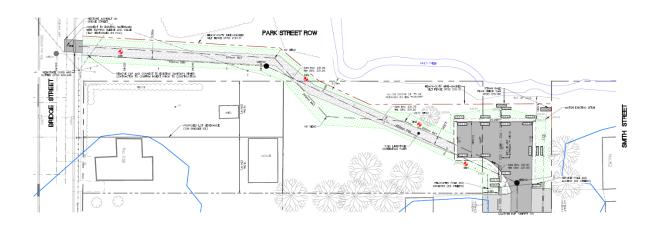
Water and Sewer Budget				
Capital Budget 2021				
Department Name:	Water		General Ledger Code(s):	2.31.4704.6360
Capital Project Name:	Lakefield Sanitary Exte	ension - Watermain Com	ponent	
Description:	I			
As part of the Lakefield Sanitary Sewer Exte	ensions project the watermair	n on Smith Street will be upgra	ded to 200mm and looped to Bridge S	Street.
Attachments:	Мар			
Supporting Rationale:	I		Sub-Committee Support:	Not Applicable
Oversizing and looping the watermain as pacrossing to the Lakefield South Developmen		s a dead end in the distributior	n system and adds a secondary feed	from the George Street river
Strategic Plan/Related Plans Reference:	I			
Achieve excellence in governance and serv	rice delivery.			
Estimated Total Project Cost] _	\$331,140	Costs in Current Year's Budget	\$299,536
Financial Plan:	I			
Oversizing of the watermain will be recovered	ed though future developmen	t charges. The remaining fund	ing for these improvements will come	from the Lakefield Water reserve.
Part of Long Term Replacement Schedule:	Capital Project			
Other Key Considerations: (accessibility, impact on future operations, annu-	ual savings, etc.)			

Date:

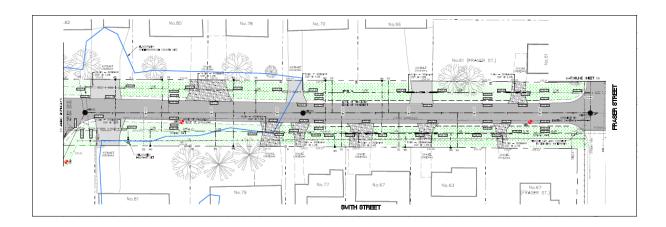
April 27, 2021

Township of Selwyn

Park Street ROW



Smith Street



Township of Selwyn Water and Sewer Budget			Date:	April 27, 2021
Capital Budget 2021				
Department Name:	Water	General Ledger Code(s):		2.31.4707.6360
Capital Project Name:	Chippewa Avenue Hydrant Replaceme	ent		
Description:	I			
Replace hydrant set and isolation valve on	Chippewa Avenue			
Attachments:	Photo			
Supporting Rationale:	I	Sub-Committee Support:		Not Applicable
	ring winter months when the ground freezes. PU hydrant from service limits fire protection in the a			t "out of service" for the
Strategic Plan/Related Plans Reference: Achieve excellence in governance and serv	ice delivery.			
Estimated Total Project Cost	<u>\$15,264</u>	Costs in Current Year's Budget		\$15,264
Financial Plan:	I			
This project is capital maintenance and as s	such is being funded from the Lakefield Water Re	eserve.		
Part of Long Term Replacement Schedule:	Capital Project			
Other Key Considerations: (accessibility, impact on future operations, annu-	ual savings, etc.)			



Township of Selwyn Lakefield Sewer and Water Reserves Budget Worksheets 2021

Dept. #	Details	Balance Jan. 1, 2021	Transfers Into Reserves	(revenue) Transfers from Reserves	(capital) Transfers from Reserves	Balance Dec. 31, 2021
	Working Funds:(Accumulated	d Revenue)				
Dept. 30	Lakefield Sewer	66,184	66,959	-66,184		66,959
Dept. 31	Lakefield Water	96,281	94,937	-96,281		94,937
	Total Working Funds	162,465	161,896	-162,465	0	161,896
	Specific Reserves:					
Dept. 30	Lakefield Sewer	1,100,888	380,000	0	-934,952	545,936
Dept. 31	Lakefield Water	5,003,071	475,000	0	-636,889	4,841,182
	Total Reserves	6,103,959	855,000	0	-1,571,841	5,387,118
	Grand Total	6,266,424	1,016,896	-162,465	-1,571,841	5,549,014