



**2017
UTILITY CAPITAL
BUDGET**

December 6, 2016.

TOWN OF SACKVILLE
UTILITY CAPITAL
2017 RECOMMENDATIONS

DRAFT

December 6, 2016

Other Funding

Road Reconstruction - Lorne Street - Infrastructure \$ 2,400,000
Municipal Share \$600,000

2017 Recommended by Staff

Page			
1	Water Meters		\$ 100,000
2	Lift Station Repairs		\$ 20,000
3	Bridge Street Utility & Lift Station		\$ 60,000
4	Water Treatment Plant Upgrades		\$ 60,000
			<u>\$ 240,000</u>

2017 Requested Delayed to Future

5/6	Various Utility Renewals (University & Quarry)		\$ 231,000
			<u>\$ 231,000</u>

Proposed Source of Funding

Capital out of Revenue Budget	\$ -		
Capital Reserve Fund	\$ -		
Borrowing	\$ 240,000	<u>\$ 240,000</u>	Total Regular Capital
Lorne Street Infrastructure		\$ 2,400,000	
Gas Tax Funds		<u>\$ -</u>	
		<u>\$ 2,400,000</u>	Total Other
		<u>\$ 2,640,000</u>	Total Utility Cap. Projects

Priority Description

- A Legislated and/or Health and Safety Required
- B Committed and/or Operationally Required
- C Want to do versus need to do

U-A

TOWN OF SACKVILLE
 UTILITY CAPITAL
 DEPARTMENTAL LISTING
 5 YEAR PLAN

DRAFT

December 6, 2016

	2017	2018	2019	2020	2021
	Requested	Requested	Requested	Requested	Requested
<u>FINANCE & ADMINISTRATION</u>					
WATER METERS	100,000	100,000	50,000	50,000	50,000
TOTAL FINANCE & ADMIN	100,000	100,000	50,000	50,000	50,000
<u>ENGINEERING</u>					
VARIOUS UTILITY RENEWALS	231,000	250,000	500,000	400,000	190,000
TRUNK SEWERS	-	340,000	-	350,000	
WATER TREATMENT PLANT UPGRADES	60,000	50,000	50,000	50,000	50,000
EQUIPMENT				275,000	
LIFT STATION REPAIRS	80,000	20,000	20,000	20,000	20,000
TOTAL ENG.	371,000	660,000	570,000	1,095,000	260,000
TOTAL CAPITAL	471,000	760,000	620,000	1,145,000	310,000
<u>SPECIAL PROJECTS</u>					
Crescent Street Lagoon	7,000,000				

U-B

TOWN OF SACKVILLE
UTILITY GOVERNMENT
DEBT PROFILE

	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	TOTAL
\$449,000												
JUNE 6/16												
	PRIN	52,000	53,000	53,000	55,000	56,000	34,000	35,000	36,000	37,000	38,000	449,000
	INT	8,800	8,026	7,191	6,259	5,204	4,270	3,476	2,588	1,611	551	52,561
	TOTAL	60,800	61,026	60,191	61,259	61,204	38,270	38,476	38,588	38,611	38,551	501,561
\$180,000												
JULY 6/15												
	PRIN	26,000	26,000	26,000	26,000	10,000	10,000	10,000	10,000	10,000	10,000	180,000
	INT	2,977	2,730	2,444	1,703	1,235	1,030	800	550	280		15,855
	TOTAL	28,977	28,730	28,444	27,703	11,235	11,030	10,800	10,550	10,280		195,855
\$607,000												
MAY 15/14												
	PRIN	81,000	82,000	84,000	86,000	38,000	39,000	40,000	41,000	40,000	40,000	528,000
	INT	11,608	10,385	8,869	7,018	4,495	3,339	2,075	707			54,022
	TOTAL	92,608	92,385	92,869	93,018	42,495	42,339	42,075	41,707			582,022
\$368,000												
NOV 30/12												
	PRIN	35,000	36,000	37,000	38,000	40,000	41,000					265,000
	INT	6,829	6,146	5,372	4,484	2,451	1,271					30,049
	TOTAL	41,829	42,146	42,372	42,484	42,451	42,271					295,049
\$1,317,000												
MAY 27/11												
	PRIN	95,000	91,000	95,000	99,000	103,000	104,000	374,000				961,000
	INT	36,550	33,484	30,157	26,469	22,427	10,158					159,243
	TOTAL	131,550	124,484	125,157	125,469	125,427	114,158					746,243
\$413,000												
JUNE 2/10												
	PRIN	21,000	21,000	23,000	23,000	24,000	205,000					317,000
	INT	13,637	12,818	11,909	10,920	5,210						54,492
	TOTAL	34,637	33,818	34,909	33,920	29,210						166,492
\$475,000												
JUNE 11/09												
	PRIN	29,000	30,000	31,000	32,000	32,000						122,000
	INT	5,047	3,755	2,336	800							11,938
	TOTAL	34,047	33,755	33,336	32,800							133,938
\$475,000												
MAY 16/08												
	PRIN	42,000	44,000	45,000								131,000
	INT	5,206	3,217	1,091								9,514
	TOTAL	47,206	47,217	46,091								140,514
\$751,000												
MAY 25/07												
	PRIN	76,000	79,000									155,000
	INT	5,305	1,797									7,102
	TOTAL	81,305	80,797									162,102
\$454,000												
JUNE 13/06												
	PRIN	49,000										49,000
	INT	1,152										1,152
	TOTAL	50,152										50,152
GRAND TOTAL												
	PRIN	454,000	461,000	394,000	357,000	283,000	498,000	85,000	87,000	47,000	38,000	3,157,000
	INT	92,897	83,131	70,203	58,987	44,620	9,910	6,350	3,845	1,891	551	395,926
	TOTAL	546,897	544,131	464,203	415,987	327,620	507,910	91,350	90,845	48,891	38,551	3,552,926

\$ (2,766) \$ (79,928) \$ (48,216) \$ (88,367) \$ 148,921 \$ 31,368 \$(416,560) \$ (505) \$ (41,954)

** Refinancing ** Refinancing

U-C

Town of Sackville

2017 CAPITAL BUDGET

Date: October 6, 2016

Project Name:

Water Meters

Budget Request Amount:

\$100,000

Attachments:

PROJECT DETAILS & BENEFITS:

- Original Meters installed in 1997.
- Had a 10 year warranty and 15 year life cycle.
- Read slower as they age as a result of wear of parts.
- New Meters are made of recycled material.
- New Meters have a 20 year life cycle.
- More accurate readings, usage and billing.
- In 2015 we did approx 500 residential meters plus MTA.
- In 2016 we did approx 500 more residential meters.
- Continue with program in 2017 and beyond.
- Budget in 2017 would upgrade another 400 - 500 Residential Meters.
This would complete approx $\frac{3}{4}$ of the Town with what was done in 2015 & 16.

Town of Sackville

2017 CAPITAL BUDGET

Date: October 19, 2016

Project Name:

Lift Station Repairs

Budget Request Amount:

\$20,000.00

Attachments: None

PROJECT DETAILS & BENEFITS:

The lift Station repairs is something that we are doing as part of our preventative maintenance, however, as we have a large number of lift stations and several large critical lift stations like Charles Street and Silver Lake lift station we must continue to upgrade and replace equipment on a regular basis. These upgrades and repairs are critical to ensure that our lift stations continue to operate as required and prevent significant down time, which would put us in a situation for potential backups into residence causing damages or having to by-pass sewage to opens ditches and water ways. These events are monitored stringently by the DOE and could result in fines if we are forced into this situation. Failure to provide this funding could increase our risk of these events happening.

EFFECT ON OPERATIONAL BUDGET:

- No effect on the operating budget

Prepared By: Dwayne Acton, P.Eng

Reviewed by: Phil Handrahan, CAO

Town of Sackville

2017 CAPITAL BUDGET

Date: October 19, 2016

Project Name:

Bridge Street Sanitary sewer lift station and street upgrades

Budget Request Amount:

Gas Tax	\$50,000.00
Utility	\$ 60,000.00

Attachments: None

PROJECT DETAILS & BENEFITS:

The project involves an installation of a new Sanitary Sewer lift station at the End of Bridge Street near the Tantramar River / Dam area. This section of Bridge Street requires a sanitary sewer upgrade to manage the sewage in this area as well as increase the serviceability of nearby properties in this area including the highway commercial areas on Cattail Ridge. In order to manage the sanitary sewer in this area we need to extend the sanitary sewer towards the river, which means the addition of a lift station and the installation of a force main to pump the sewage back towards Crescent Street and into our existing sanitary sewer system. During the upgrades to the sewer system in this area, we will take the opportunity to upgrade the water main at the same time. As the street will be completely dug up with the addition of a sanitary sewer force main, sanitary sewer mains along with an extension to the water main a complete reconstruction of this section of Bridge street is required. The design of the project is being looked at by the Engineering department and all work is planned to be completed by the Town of Sackville Public Works department.

EFFECT ON OPERATIONAL BUDGET:

- There is an effects to the operating budget and it will increase our operating budget for Sanitary sewer lift station by the \$1000/year as per the following amounts:
 - o 6400-350 - Increase by \$500 / year
 - o 6405-350 - Increase by \$300/year
 - o 6410-350 - Increase by \$200/year

Prepared By: Dwayne Acton, P.Eng

Reviewed by: Phil Handrahan, CAO

U-3

Town of Sackville

2017 CAPITAL BUDGET

Date: October 19, 2016

Project Name:

Water Treatment Plant upgrades

Budget Request Amount:

\$60,000.00

Attachments:

PROJECT DETAILS & BENEFITS:

As part of the WTP upgrades in 2015, it was determined that the Computers with Window XP platform as well as, the SCADA system that is running off of the Window XP platform and the two PLC in the WTP needed to be upgraded. It was determined that the upgrades would have to be completed in phases due to the cost of the total upgrades. The Computer and SCADA system were upgraded in 2015 with Phase two planned as part of the WTP upgrades for 2016. However, given the failure to valves within the plant and the failure of well house #2 pump and piping system, the upgrade to the PLC's has been pushed back to 2017. We are looking at upgrading the PLC's as part of our Capital Budget for WTP in 2017. The PLC's are the interface between the SCADA system and the equipment that operate our plant. The PLC are currently running off of old technology that is starting to fail and due to the fact that this is old technology, the parts are becoming harder to find and purchase and when the parts are located the cost of these parts have increased significantly. The PLC upgrades would allow us to upgrades to more modern PLC equipment that is readily available and also available locally. As the PLC are a critical components for the operating of the WTP, it is important that they be up to date and the most modern equipment available. As the WTP is typically not occupied and is a critical part of our water infrastructure we are looking to install a camera system around the building to improve our security and enable us to keep a closer eye on the building on a 24/7 basis, utilizing these camera.

EFFECT ON OPERATIONAL BUDGET:

- No effect to our operating budget.

Prepared By: Dwayne Acton, P.Eng

Reviewed by: Phil Handrahan, CAO

Town of Sackville

2017 CAPITAL BUDGET

Date: October 19, 2016

Project Name:

University Ave Reconstruction – Salem to End of Street

Budget Request Amount:

General	\$172,000.00
Utility	\$ 80,000.00

Attachments: None

PROJECT DETAILS & BENEFITS:

The project involves the complete reconstruction of University Ave, from Salem Street to End of Street. The project includes the removal of the existing asphalt, the replacement of the 4" cast iron water main with a new 6" PVC water main including renewal of all service laterals up to the property line. The project will also consist of the replacement of the old 6" Clay sewer main with a new PVC main and again the service laterals to all the buildings on this street over to the property line will be renewed. The street will be completely upgraded with a new storm water sewer system and curb and gutters to manage the storm water properly on the street and surrounding properties within the right away. The design of the project is being looked at by the Engineering department and due to the size of the project, and the possible work scheduled in 2017 for the Public Works department, we are recommending that this project be put out as a public tender.

EFFECT ON OPERATIONAL BUDGET:

- No effects to the operating budget

Prepared By: Dwayne Acton, P.Eng

Reviewed by: Phil Handrahan, CAO

Town of Sackville

2017 CAPITAL BUDGET

Date: October 19, 2016

Project Name:

Quarry Lane Reconstruction – Salem to End of Street

Budget Request Amount:

General	\$285,000.00
Utility	\$ 151,000.00

Attachments: None

PROJECT DETAILS & BENEFITS:

The project involves the complete reconstruction of Quarry Lane, from Salem Street to End of Street. The project includes the removal of the existing asphalt, the replacement of the 4” cast iron water main with a new 6” PVC water main including renewal of all service laterals up to the property line. The project will also consist of the replacement of the old 8” Clay sewer main with a new PVC main and again the service laterals to all the buildings on this street over to the property line will be renewed. The street will be completely upgraded with a new storm water sewer system and curb and gutters to manage the storm water properly on the street and surrounding properties within the right away. The design of the project is being looked at by the Engineering department and due to the size of the project, and the possible work scheduled in 2017 for the Public Works department, we are recommending that this project be put out as a public tender.

EFFECT ON OPERATIONAL BUDGET:

- No effects to the operating budget

Prepared By: Dwayne Acton, P.Eng

Reviewed by: Phil Handrahan, CAO