

# 2021 BUDGET

## Workbook

WATER AND WASTEWATER

April 2021



West Nipissing Ouest



# Water and Wastewater

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The Water and Wastewater department is responsible for the treatment, supply and delivery of safe drinking water as well as the reliable collection and treatment of wastewater. The department operates in a highly regulated structure of federal, provincial and municipal regulations, policies and standards. The Verner facilities are operated by the Ontario Clean Water Agency (OCWA).

## Facilities

Field Wastewater Treatment Plant  
Sturgeon Falls Wastewater Treatment Plant  
Sturgeon Falls Water Treatment Plant  
Verner Water Treatment Plant (Operated by OCWA)  
Verner Lagoon (Operated by OCWA)

## Services

Deliver safe drinking water to the community  
Provide reliable and sanitary sewage collection  
Supply water for firefighting services where drinking water is available

## In 2020

- We received approximately **119** Distribution and Collection related service requests
- The Sturgeon Falls Water Plant supplied over **1.36 million cubic metres** of drinking water to 8000 residents  
→ Equivalent to **3000 Community and Recreation Centre Swimming Pools**
- The Sturgeon Falls Wastewater Plant treated over **1 850 000 cubic metres** of wastewater
- The Verner Water Plant supplied over **106 110 cubic metres** of drinking water to 1000 residents  
→ Equivalent to **240 Community and Recreation Centre Swimming Pools**
- The Verner lagoons treated about **260 000 cubic metres** of wastewater

## Focus and Goals

- Continue to provide safe and reliable services
- Ensure safe drinking water and properly treated wastewater
- Cost effective services
- Preventive maintenance and upgrades of equipment
- Emergency preparedness
- Forecast and plan to ensure sustainability and growth



## 2021 Budget Highlights

- Maintenance and upgrades of various plant equipment.
- The purchase of critical water plant equipment as identified in the risk management process.
- Replace chlorine dioxide with potassium permanganate for manganese removal.
- Trial use of a sequestrant to aid controlling discolouration due to manganese in the Verner water supply.
- Belanger Street construction including sanitary and storm sewer collection upgrades.
- Assuming the Class Environmental Assessment and public input are favourable for Sturgeon Falls to supply the drinking water system for Verner, attain an agreement with CPR and start the design work.

### Previously approved projects

- Complete the Municipal Class Environmental Assessment to determine preferred option to supply drinking water in Verner.
- Engineering design services for Nipissing, Ethel, Main, King, and Salter Streets (to be shovel ready for grants)





## 2021 Budget

	2020			2021	
	Actual	Budget	Variance	Budget	Variance
<b>Revenues</b>					
Provincial Grant	-	-	-	-	-
Rate Revenue	5,817,803	5,818,973	(1,170)	5,818,973	-
Interest Revenue	13,826	15,000	(1,174)	15,000	-
Other Income	5,966	34,500	(28,534)	34,500	-
West Nipissing Power Generation	70,000	70,000	-	70,000	-
<b>Total Revenues</b>	<b>5,907,595</b>	<b>5,938,473</b>	<b>(30,878)</b>	<b>5,938,473</b>	<b>-</b>
<b>Expenditures</b>					
<b>HR Costs</b>					
Salaries & Wages	1,011,072	1,044,380	33,308	1,078,845	(34,465)
Benefits	258,870	266,699	7,829	279,490	(12,791)
Education	20,923	25,000	4,077	35,000	(10,000)
<b>Total HR Costs</b>	<b>1,290,865</b>	<b>1,336,079</b>	<b>45,214</b>	<b>1,393,335</b>	<b>(57,256)</b>
<b>Operating Costs</b>					
Advertising	-	500	500	500	-
Contractors	104,355	200,000	95,645	190,000	10,000
General Insurance	161,268	161,269	1	206,060	(44,791)
Interest on Loans	401,365	407,233	5,868	358,554	48,679
Materials & Supplies	105,419	162,750	57,331	172,750	(10,000)
Office Supplies	20,773	35,800	15,027	35,800	-



Process Materials	703,488	715,250	11,762	715,250	-
Professional Fees	4,903	20,000	15,097	10,000	10,000
Repairs & Maintenance	145,922	123,000	(22,922)	126,000	(3,000)
Services and Rents	334,822	295,070	(39,752)	320,000	(24,930)
Utilities & Telecommunication	440,678	551,659	110,981	541,659	10,000
Vehicle Expenses	19,098	21,000	1,902	21,000	-
<b>Total Material, Supplies &amp; Rents</b>	<b>2,442,091</b>	<b>2,693,531</b>	<b>251,440</b>	<b>2,697,573</b>	<b>(4,042)</b>
<b>Total Expenditures</b>	<b>3,732,956</b>	<b>4,029,610</b>	<b>296,654</b>	<b>4,090,908</b>	<b>(61,298)</b>
<b>Net Surplus (Deficit) Operations</b>	<b>2,174,639</b>	<b>1,908,863</b>	<b>265,776</b>	<b>1,847,565</b>	<b>(61,298)</b>
Transfer to Reserve	1,125,000	1,125,000	-	1,130,000	(5,000)
Contribution from Reserve	(1,299,933)	(1,409,007)	(109,074)	(980,855)	(428,152)
Funding	(192,092)	(281,493)	(89,401)	(310,145)	28,652
Other revenue			-		-
<b>Total Change in Reserves</b>	<b>(367,025)</b>	<b>(565,500)</b>	<b>(198,475)</b>	<b>(161,000)</b>	<b>(404,500)</b>
Payments on Loans	784,690	783,863	(827)	832,542	(48,679)
<b>Total Change in Financing</b>	<b>784,690</b>	<b>783,863</b>	<b>(827)</b>	<b>832,542</b>	<b>(48,679)</b>
<b>Capital Assets</b>					
Capital expenditures-Infrastructure	1,104,507	1,260,000	155,493	700,000	560,000
Capital expenditures-Equipment	333,707	365,500	31,793	526,000	(160,500)
Capital expenditures-Fleet	53,811	65,000	11,189	65,000	-
<b>Total Capital Assets</b>	<b>1,492,025</b>	<b>1,690,500</b>	<b>198,475</b>	<b>1,291,000</b>	<b>399,500</b>
	1,909,690	1,908,863	(827)	1,962,542	(53,679)
<b>Surplus (Deficit)</b>	<b>264,949</b>	<b>-</b>	<b>264,949</b>	<b>(114,977)</b>	<b>(114,977)</b>





<b>Budgeted Rate Revenue for 2020</b>	<b>5,818,973</b>
<b>% Rate increase</b>	<b>1.98%</b>
<b>Budgeted Rate Revenue for 2021</b>	<b>5,933,950</b>
1% represents	58,190

## Reserve Position as of December 31, 2020

Opening Balance 2020	978,383
Approved Transactions in 2020	-
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Interim Balance 2020	978,383
Surplus from 2020	264,949
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Ending Balance 2020	1,243,332



## Summary of Dedicated Reserves as of December 31, 2020

	Opening Balance	Additions	Transfer to Capital Fund	Reserve Available	Expenditure	Ending Balance
Equipment	121,626	25,000		146,626	53,811	92,815
Infrastructure	2,308,707	1,100,000		3,408,707	1,242,447	2,166,260
Infrastructure (Planning)	18,037	-		18,037		18,037
	<b>2,448,370</b>	<b>1,125,000</b>	<b>-</b>	<b>3,573,370</b>	<b>1,296,258</b>	<b>2,277,112</b>





## Rates

	2020 Rate	Proposed 2021 Rate
Water service	\$618.10	\$630.31
Sanitary sewer service	\$772.63	\$787.90
Both water and sewer	\$1,390.73	\$1,418.21

## Capital Infrastructure

### 2021

#### Field Wastewater Treatment Plant

Chemical pump	5,000
Programming/remote control	10,000
Influent pumps	5,000

**\$20,000**

#### Sturgeon Falls Wastewater Treatment Plant

Chemical pump	5,000
Replace weirs, parge concrete	9,000
Coat concrete	50,000
Baffeling for contact chamber	10,000
Grit Auger	40,000
Computers & software	60,000
Thermophilic treatment project	50,000

**\$224,000**

#### Sturgeon Falls Water Treatment Plant

High lift pump - preventive maintenance	30,000
Facility maintenance	30,000
Computers & software	53,000
Turbidity Analyzer	14,000

**\$127,000**





**Verner**

Level Sensors	5,000
3 Clearwell valves	30,000
2 Knife gate valves	20,000
Sewage Station Pump	15,000
Computers & software	30,000

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**\$100,000****Lift Stations/Pump Stations**

Flyght pump for Bay/Cache Bay	35,000
2 VFD Bay and Cache Bay installed	20,000

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**55,000****Distribution/Collection**

Manholes (2 M/H per year)	10,000
Belanger - Sewer and Water	320,000
Verner CPR Agreement Prelim Design	170,000
Designs - Nipissing, Ethel, King, Main, Salter	200,000

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**\$700,000****Fleet**

Wastewater plant fleet	65,000
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**\$65,000**

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**Total projects \$1,291,000**

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