



**The Corporation of the Township of Tay
Operational Services Committee
Agenda**

March 8, 2023

1:30 p.m.

Zoom Video Conference

To view the live stream, visit the Tay Township [YouTube Channel](#).

Pages

1.	<u>Call to Order</u>	
2.	<u>Adoption of the Agenda</u>	
	Recommendation:	
	That the Operational Services Committee Meeting Agenda for March 8, 2023, be approved.	
3.	<u>Disclosure of Interest</u>	
4.	<u>Presentations / Delegations</u>	
4.1	Debbie Rolfe (127 Wyeclyffe Cove, Victoria Harbour), Re: Stop Sign Request	3
5.	<u>Standing Committee Business</u>	
5.1	Reports from Municipal Officials	
5.1.1	OS-2023-12 General Manager, Operational Services, Re: 2022 Drinking Water Inspection Reports for the following systems: Tay Area Drinking Water System (Large Municipal Residential) & Rope Drinking Water System (Small Municipal Residential)	10
	Recommendation:	
	That Item OS-2023-12 dated March 8, 2023 regarding the 2022 Annual Drinking Water Inspection Reports for the Tay Area Drinking Water System and the Rope Drinking Water System be received.	
5.1.2	OS-2023-13 General Manager, Operational Services, Re: Traffic Counts/Speed Monitoring Program 2022	32
	Recommendation:	
	That Item OS-2023-13 dated March 8, 2023, regarding Traffic Counts and Speed Monitoring various streets in 2022, be received.	
5.1.3	OS-2023-09 Manager of Parks, Recreation and Facility Services, Re: Monthly Activity Report	35
	Recommendation:	
	That Item OS 2023-09 dated March 8, 2023, regarding Monthly Activity Report – Manager of Parks, Recreation and Facility Services, be received.	

5.1.4 OS-2023-10 Manager of Roads, and Fleet Services, Re: Monthly Activity Report 39

Recommendation:

That Item OS 2023-10 dated March 2, 2023, regarding Monthly Activity Report – Manager of Roads and Fleet Services, be received.

5.1.5 OS-2023-11 General Manager, Operational Services, Re: Monthly Activity Report 42

Recommendation:

That Item OS 2023-11, dated March 8, 2023, regarding Monthly Activity Report – General Manager Operational Services/Engineering, be received.

5.2 Other Business

5.3 Items for Information

5.4 Delegation Follow-Up

5.4.1 Debbie Rolfe (127 Wyecliffe Cove, Victoria Harbour), Re: Stop Sign Request

6. General Discussion – Committee/Staff Question & Answer Period

7. Closed Session

8. Adjournment

Recommendation:

That this Operational Services Committee meeting adjourn at (time) p.m.

Tay Township Presentation

Operational Services Committee

March 8, 2023

Debbie Rolfe, resident 127 Wycliffe Cove

Facts

- There are no sidewalks on Wycliffe Cove.
- The nearest sidewalk is on Ellen St. but one must cross Ellen St. from Wycliffe Cove in order to access the sidewalk.
- Many residents of Wycliffe Cove are over the age of 60, and several have dogs.
- The speed limit on all the residential streets is 50 km. an hour.
- There are currently no stop signs at the juncture of Ellen St. meeting Hoyt Ave.

Problem

- There is a very large personal safety issue for anyone travelling on foot to exit Wycliffe Cove and attempt to access the sidewalk on Ellen St.
- Context:
- If you look at the map of Victoria Harbour, and the highlighted streets, you will note that both Hoyt Ave and Ellen St are straight aways, which encourages drivers to travel over the speed limit. Wycliffe Cove is located very near the intersection of these two streets. Many drivers on both Ellen St and Hoyt Ave. like to cut through Wycliffe Cove in an effort to shop at Foodland.
- The present situation allows for drivers to travel (often at 60 km) straight down Ellen or along Hoyt and swerve onto Wycliffe Cove without slowing down. The cars travelling along Hoyt onto Ellen have a blind view of the Wycliffe Cove entrance, and similarly those travelling down Ellen onto Hoyt have a blind view of the Pub and Juneau Rd.

Problem cont'd

- Residents currently have to rely on their hearing to know if a car is coming along Hoyt onto Ellen, while they are crossing from Wycliffe Cove to Ellen to the sidewalk. Those with mobility issues are not able to just pick up speed and race across the street.
- I feel that it is only a matter of time before someone gets hit by a car, and likewise for a person leaving the Pub and crossing over Hoyt to access the Ellen St. sidewalk.

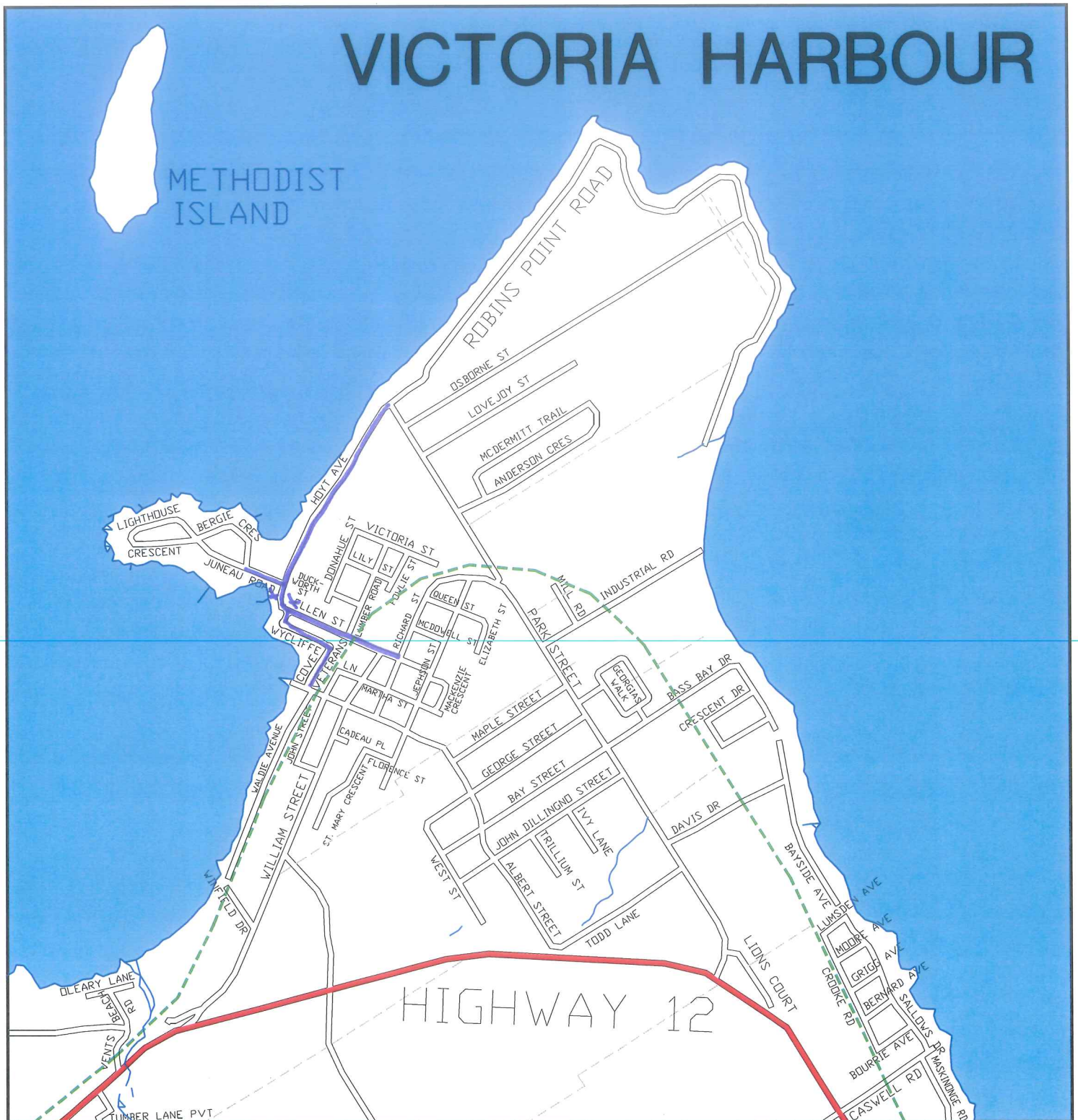
Potential Solutions

- Recognizing that there are limited funds to address this problem, I recommend that two stop signs be installed where Ellen St. meets Hoyt Ave. – one on Ellen and the other on Hoyt.
- Other possibilities might include lowering the speed limit on Wycliffe Cove to 30 km. per hour, or installing a crosswalk from Wycliffe Cove to Ellen St.
- I'm sure there are other options that you would be more knowledgeable about.

Rationale

- If cars have to stop at the juncture of Ellen St. and Hoyt St., they will have to slow down before turning the corner. Having slowed down, they will be approaching the blind spots at a lower speed, offering both the driver and pedestrians more time to avoid a potential collision.
- Thank you for your time today and your consideration of this very grave safety situation.

VICTORIA HARBOUR





Staff Report

To: **Operational Services Committee**

Department: Operational Services/Engineering

Report Number: **OS - 2023-12**

Meeting Date: March 8, 2023

Subject: 2022 Drinking Water Inspection Reports for the following systems:
Tay Area Drinking Water System (Large Municipal Residential)
Rope Drinking Water System (Small Municipal Residential)

Recommendation

That Item OS-2023-12 dated March 8, 2023 regarding the 2022 Annual Drinking Water Inspection Reports for the Tay Area Drinking Water System and the Rope Drinking Water System be received.

Executive Summary

The attached reports were prepared by the OCWA Compliance Division in accordance with Section 11 of the Ontario Regulation 170/08. It is required that an Annual Report for the previous calendar year be prepared no later than February 28th of each year for Large Municipal Residential, small Municipal Residential, Large Municipal Non-Residential, Small Municipal Non-Residential and Non-Municipal Year-Round Residential Drinking water systems.

In general, the Section 11 Annual Reports consist of the following:

- A brief description of the drinking water system
- A description of major equipment related expenses
- Where applicable, a summary of reports/notices submitted to the Spills Action Center and any corrective actions taken
- A summary of microbiological, operational and chemical test results as required by the Regulation

Section 12 of O.Reg. 170/03 requires that the Annual Report is available for inspection, at no charge, by any member of the public during regular business

hours. We will have the report available at the municipal office and on our website for the public to view.

Background/Analysis/Options

In 2022, the provincial government passed the Safe Drinking Water Act, 2002(the Act) and in 2003, all municipal drinking water systems in Ontario became governed by this Act and its Regulations.

The Ontario Drinking Water Systems Regulation (O.Reg. 170/03) under the Act outlines the requirements for water quality monitoring, testing, and reporting of water quality results. There are other regulations enacted under the Act, which include, Drinking Water Quality Standards Regulation (O.Reg. 169/03), Drinking Water Testing Services Regulation (O.Reg. 248/03) and Certification of Drinking Water System Operators and Water Quality Analysts (O.Reg. 128/04).

Regulation 128/04 ensures that the water system operators and water quality analysts improve their knowledge in water treatment, supply and distribution system operations skills on a continuous basis.

The Act outlines general requirements for owners and operating authorities of municipal drinking water systems. One of these duties is to ensure that all reporting requirements are carried out in accordance with the legislative conditions, including preparation of an Annual Report (O.Reg. 170/03 Section 11) and a Summary Report for Municipalities (O.Reg. 170/03, Schedule 22).

Reporting requirements under the Ontario Drinking Water Systems Regulation (O. Reg. 170/03)

Section 11 of O. Reg. 170/03 requires the water system owner to prepare an Annual Report that includes information related to the quality of the drinking water supply. This report must be prepared and made available to the public no later than February 28 of each year.

Yearly, OCWA Compliance staff prepare the Annual Reports for the two drinking water systems in the Township (Schedule 1 and Schedule 2). Township staff ensure the reports are available to the public as required. The reports can be accessed via the township's website and in an electronic or paper copy upon request. The availability of the Annual Reports is communicated to our customers via our various social media feeds and the public Council meeting.

Financial and Resource Implications

There are no financial or resource implications associated with this Report.

Relationship to Strategic Plan

Not Strategic Plan Specific - Other

Reference Documents

There are no reference documents associated with this Report.

Attachments

Schedule 1 - Township of Tay - Rope Annual Report 2022

Schedule 2 - Township of Tay - Tay Area Drinking Water System Report 2022

Prepared By

Shawn Berriault, C.Tech

General Manager Operational Services/Manager of Engineering

Approvals

Andrea Fay, Dipl. M.A.

Chief Administrative Officer/Deputy Clerk

Date

March 2, 2023

2022 SECTION 11 ANNUAL REPORT

ROPE DRINKING WATER SYSTEM



For the period of
January 1st, 2022 to December 31st, 2022

Prepared for the Corporation of the Township of Tay by the Ontario Clean Water Agency



ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX
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This report was prepared in accordance with the requirements of [O.Reg 170/03, Section 11, Annual reports](#) for the following system and reporting period:

Drinking Water System Number:	220011323
Drinking Water System Name:	Rope Drinking Water System
Drinking Water System Owner:	The Corporation of the Township of Tay
Drinking Water System Category:	Small Municipal Residential
Reporting Period:	January 1, 2022 to December 31, 2022

Does the Drinking Water System serve more than 10,000 people?

No

Is the Annual Report available to the public at no charge on a website on the Internet?

Yes

Note: If a large municipal residential system serves more than 10,000 people, the owner of the system shall ensure that a copy of every report prepared under this section is available to the public at no charge on a website on the Internet. O. Reg. 170/03, Section 11. (10)

Location where Summary Report required under O. Reg 170/03, Schedule 22 will be available for inspection. (O. Reg 170/03, Section 11.(6)(f)):

- Township of Tay Municipal Office at 450 Park Street, Victoria Harbour, Tay Township
- <https://www.tay.ca/en/>

Note: This is required for large municipal residential systems or small municipal residential systems.

List all Drinking Water Systems (if any), which receive all of their drinking water from the system:

Drinking Water System Name	Drinking Water System Number
N/A	N/A

Is a copy of the annual report provided to all Drinking Water System owners that are connected to this system and to whom this system provides all of its drinking water?

N/A

How system users are notified that the annual report is available, and is free of charge. (O.Reg 170/03, Section 11.(7))

- | | |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | Public access/notice via the web |
| <input type="checkbox"/> | Public access/notice via Government Office |
| <input type="checkbox"/> | Public access/notice via a newspaper |
| <input checked="" type="checkbox"/> | Public access/notice via Public Request |
| <input type="checkbox"/> | Public access/notice via a Public Library |

☐ Public access/notice via other method: _____

Note: The owner of a drinking water system shall ensure that a copy of an annual report for the system is given, without charge, to every person who requests a copy. ((O.Reg 170/03, Section 11.(7)):

Description of Drinking Water System (O.Reg 170/03, Section 11.(6)(a)):

The Rope Drinking Water System is classified as a Small Municipal Residential Drinking Water System, servicing an approximate population of 91 persons. The system is comprised of the Rope Water Treatment Plant, treated water clearwell and distribution watermain.

The raw water is drawn from Georgian Bay to the water treatment plant and treated with Sodium Hypochlorite (for Zebra Mussel control, as required), Polyaluminum Chloride (for removal of excess organics), passes through Zenon Environmental EC-04 & MDW-4 Filter System (for removal of particulates), UV (for primary disinfection) and treated with Sodium Hypochlorite (for primary and secondary treatment). The treated water is stored in a reservoir within the treatment plant prior to distribution. The treated water is distributed to the Rope subdivision. Online equipment continuously monitors filter effluent turbidity and free chlorine residual. The water treatment plant is equipped with standby power in the event of a power failure.

List of water treatment chemicals used by the system during the reporting period (O.Reg 170/03, Section 11.(6)(a)):

- Sodium Hypochlorite 12% Solution
- Stern PAC Aluminum Chloride Hydroxide Sulfate 30-35%
- Citric Acid 50%

Significant expenses were incurred to:

- ☒ Install required equipment
☒ Repair required equipment
☒ Replace required equipment
☐ No significant expenses were incurred

Description of major expenses during the reporting period to install, repair or replace required equipment (O.Reg 170/03, Section 11.(6)(e)):

- Filter Membrane Cartridge Replacement
- Reservoir Cleaning, Pipe Repair and Blower Motor Replacement
- BTP Panel Installation

Summary of any reports/notices submitted to the Ministry and/or Spills Action Centre in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg 170/03 during the reporting period, including a description of any corrective actions taken under Schedule 17 or 18 (O. Reg 170/03, Section 11.(6)(b),(d):

Incident Date (yyyy/mm/dd)	Parameter/ Notice of	Result	Unit of Measure	Reporting Summary, Corrective Actions & Resolution
N/A	N/A	N/A	N/A	N/A

Table 1. Microbiological testing done under the Schedule 10, 11 or 12 (as applicable) of O.Reg 170/03 during this reporting period (O.Reg 170/03, Section 11.(6)(c)).

Location	Number of Samples	Range of E. Coli or Fecal Results		Range of Total Coliform Results		Number of HPC Samples	Range of HPC Samples	
		Min.	Max.	Min.	Max.		Min.	Max.
Raw Water - RW	52 ^{1A}	0	9	0	222	N/A	N/A	N/A
Distribution	89 ^{1B}	0	0	0	0	89	0	18

Note: HPC = Heterotrophic Plate Count

Note: Units for E.Coli or Fecal Results are cfu/100 mL, units for Total Coliform Results are cfu/100 mL, units for HPC results are cfu/1mL

^{1A}The owner of a small municipal residential system that obtains raw water supply from surface water shall ensure that at least once every month a sample from the raw water that is supplying the system and tested for E.Coli and Total Coliforms (O.Reg. 170/03, Schedule 11-3.(1)(3)(a)(b))

^{1B} O.Reg 170/03 Schedule 11-2.(1)(2) requires at least one distribution sample be taken every two weeks and be tested for E.Coli, Total Coliforms and HPC.

Table 2. Operational testing done under Schedule 7, 8 or 9 (as applicable) O. Reg 170/03 during the period covered by this Annual Report (O. Reg 170/03, Section 11.(6)(c)).

Parameter & Location	Number of Samples	Range of Results	
		Min.	Max.
Filter Effluent Turbidity, Filter 1 (Continuous) [NTU]	8760	0.04	2.00 ^{2A}
Filter Effluent Turbidity, Filter 2 (Continuous) [NTU]	8760	0.01	2.00 ^{2A}
Free Chlorine Residual, Treated (Continuous) [mg/L]	8760	0.26	2.00
Free Chlorine Residual, Distribution (Grab) [mg/L]	451	0.19	1.36

Note: The number of samples used for continuous monitoring units is 8760.

Note: Filter 1 was offline from February 15th through December 31st, 2022

Note: If a drinking water system obtains water from a raw water supply that is surface water and the system provides filtration, the owner of a system shall ensure that sampling and testing for turbidity is carried out by continuous monitoring equipment on each filter effluent line (O.Reg.170/03, Schedule 7-3.(2)(b))

^{2A} *Turbidity values are continuously monitored during production, maintenance and start up activities. Filter-to-waste is implemented to ensure effluent turbidity requirements are met at all times and membrane integrity is monitored on a monthly basis. No AWQIs have occurred for turbidity during the reporting period, filtered water turbidity is less than or equal to 0.1 NTU in 99% of the measurements each month for each filter train.*

Table 3. Summary of additional testing and sampling results carried out in accordance with the requirement of an approval, municipal drinking water licence or order (including OWRA) or other legal instrument during the reporting period and if tests required under this Regulation in respect of a parameter were not required during that period, summarize the most recent results of tests of that parameter (O. Reg 170/03, Section 11.(6)(c)):

Legal Instrument & Issue Date (yyyy/mm/dd)	Sample Location & Parameter	Sampling Frequency	Allowable Result	Sample Date (yyyy/mm/dd)	Sample Result(s)
MDWL #129-101, Issue 6 (2022/12/28)	Wastewater Holding Tank: Total Suspended Solids	Monthly	15 mg/L Annual Average	2022 (Monthly)	3.70 mg/L Annual Average

Table 4. Summary of Inorganic parameters tested during this reporting period or the most recent sample results (O.Reg 170/03, Section 11.(6)(c))

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
Antimony: Sb (µg/L) - TW	2022/01/04	<MDL 0.6	6.0	No
Arsenic: As (µg/L) - TW	2022/01/04	<MDL 0.2	10.0	No
Barium: Ba (µg/L) - TW	2022/01/04	19.9	1000.0	No
Boron: B (µg/L) - TW	2022/01/04	14.00	5000.0	No
Cadmium: Cd (µg/L) - TW	2022/01/04	<MDL 0.003	5.0	No
Chromium: Cr (µg/L) - TW	2022/01/04	0.13	50.0	No
Mercury: Hg (µg/L) - TW	2022/01/04	<MDL 0.01	1.0	No
Selenium: Se (µg/L) - TW	2022/01/04	<MDL 0.04	50.0	No
Uranium: U (µg/L) - TW	2022/01/04	0.002	20.0	No
Fluoride (mg/L) - TW	2022/01/04 ^{4A}	<MDL 0.06	1.5	No
Nitrite (mg/L) - TW	2022/01/04	<MDL 0.003	1.0	No
Nitrite (mg/L) - TW	2022/04/11	<MDL 0.003	1.0	No
Nitrite (mg/L) - TW	2022/07/04	<MDL 0.003	1.0	No
Nitrite (mg/L) - TW	2022/10/03	<MDL 0.003	1.0	No
Nitrate (mg/L) - TW	2022/04/11	0.079	10.0	No
Nitrate (mg/L) - TW	2022/07/04	0.112	10.0	No
Nitrate (mg/L) - TW	2022/10/03	0.028	10.0	No
Nitrate (mg/L) - TW	2022/04/11	<MDL 0.006	10.0	No

Note: TW = Treated Water

Note: The owner of a small or large municipal residential system that obtains water from a raw water supply that is surface water shall ensure that at least one water sample for inorganics is taken every 12 months (O.Reg 170/03, Schedule 13-2.(1)). The last set of samples were collected and tested in 2022, the next set of samples are scheduled to be collected and tested in 2023.

^{4A}Fluoride is reportable every 60 months. Next set of Fluoride samples is scheduled to be collected in 2027.

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Aesthetic Objective (AO)	Exceedance	
				AO	> 20 mg/L
Sodium: Na (mg/L) - TW	2022/01/04 ^{4B}	20.2	200	No	Yes ^{4C}

Note: MDL = Minimum Detection Limit, TW = Treated Water

Note: There is no regulatory Maximum Allowable Concentration (MAC) Sodium. The aesthetic objective (AO) for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.

^{4B}Sodium is reportable every 60 months. Next set of sodium samples is scheduled to be collected in 2027.

^{4C}If a concentration of sodium exceeds 20 mg/L is detected, the owner of the drinking water system shall ensure that a resample is collected and tested as soon as reasonably possible, and other steps as directed by the medical officer of health if a report under subsection 18 (1) of the Act has not been made in respect of sodium in the preceding 57 months. (O.Reg. 170/03, Schedule 16-3.(1)8.) A sample collected in 2018 exceeded 20mg/L and was reported as an AWQI, therefore no notification is required for the 2022 sample as it has not exceeded 57 months since the last report was made.

Table 5: Summary of lead testing under Schedule 15.1 during this reporting period (O.Reg 170/03, Section 11.(6)(g))

Location/Type & Parameter	Number of Samples ^{4A}	Range of Results		Number of Lead Exceedances
		Min.	Max.	MAC = 10 µ/L
Period: January 1 to April 15				
Plumbing – Lead (µg/L) ^{4B}	N/A	N/A	N/A	N/A
Distribution – Lead (µg/L) ^{4C}	1	0.01	0.01	0
Distribution – Alkalinity (mg/L as CaCO ₃)	1	31	31	N/A
Distribution – pH	1	6.59	6.59	N/A
Period: June 15 to October 15				
Plumbing – Lead (µg/L) ^{4B}	N/A	N/A	N/A	N/A
Distribution – Lead (µg/L) ^{4C}	1	0.21	0.21	0
Distribution – Alkalinity (mg/L as CaCO ₃)	1	37	37	N/A
Distribution – pH	1	6.88	6.88	N/A
Period: December 15 to 31				
Plumbing – Lead (µg/L) ^{4B}	N/A	N/A	N/A	N/A
Distribution – Lead (µg/L) ^{4C}	N/A	N/A	N/A	N/A
Distribution – Alkalinity (mg/L as CaCO ₃)	N/A	N/A	N/A	N/A

Location/Type & Parameter	Number of Samples ^{4A}	Range of Results		Number of Lead Exceedances
		Min.	Max.	MAC = 10 µ/L
Distribution - pH	N/A	N/A	N/A	N/A

Note: this is required for large municipal residential systems, small municipal residential systems or non-municipal year-round residential system. (O.Reg 170/03, Section 11.(6)(g))

^{5A}*This system follows a reduced sampling schedule (O.Reg. 170/03, Section 15.1.5). The number of sampling points for the system is based on the population served by the system. The number of people served by the system is 91 (as confirmed with the Owner on September 28, 2022), and therefore requires 1 distribution sampling points per sampling period.*

^{5B}*Plumbing samples are not applicable as this system qualifies for the plumbing exemption per O. Reg 170/03 Schedule 15.1-5 (9) (10).*

^{5C}*This system follows a reduced sampling schedule (O.Reg 170/03, Section 15.1.5). Distribution lead samples are collected every 36 months. The most recent set of distribution lead samples were collected within the winter period of December 15, 2021 to April 15, 2022 and summer period of June 15, 2022 to October 15, 2022. The next set of distribution lead samples is scheduled to be collected within the winter period of December 15, 2024 to April 15, 2025 and summer period of June 15, 2025 to October 15, 2025.*

Table 6: Summary of Organic parameters sampled during this reporting period or the most recent sample results^{5A} (O.Reg 170/03, Section 11.(6)(c)).

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
Alachlor (ug/L) - TW	2022/01/04	<MDL 0.02	5.0	No
Atrazine + N-dealkylated metabolites (ug/L) - TW	2022/01/04	<MDL 0.01	5.0	No
Azinphos-methyl (ug/L) - TW	2022/01/04	<MDL 0.05	20.0	No
Benzene (ug/L) - TW	2022/01/04	<MDL 0.32	1.0	No
Benzo(a)pyrene (ug/L) - TW	2022/01/04	<MDL 0.004	0.01	No
Bromoxynil (ug/L) - TW	2022/01/04	<MDL 0.33	5.0	No
Carbaryl (ug/L) - TW	2022/01/04	<MDL 0.05	90.0	No
Carbofuran (ug/L) - TW	2022/01/04	<MDL 0.01	90.0	No
Carbon Tetrachloride (ug/L) - TW	2022/01/04	<MDL 0.17	2.0	No
Chlorpyrifos (ug/L) - TW	2022/01/04	<MDL 0.02	90.0	No
Diazinon (ug/L) - TW	2022/01/04	<MDL 0.02	20.0	No
Dicamba (ug/L) - TW	2022/01/04	<MDL 0.2	120.0	No
1,2-Dichlorobenzene (ug/L) - TW	2022/01/04	<MDL 0.41	200.0	No
1,4-Dichlorobenzene (ug/L) - TW	2022/01/04	<MDL 0.36	5.0	No
1,2-Dichloroethane (ug/L) - TW	2022/01/04	<MDL 0.35	5.0	No
1,1-Dichloroethylene (ug/L) - TW	2022/01/04	<MDL 0.33	14.0	No
Dichloromethane (Methylene Chloride) (ug/L) - TW	2022/01/04	<MDL 0.35	50.0	No
2,4-Dichlorophenol (ug/L) - TW	2022/01/04	<MDL 0.15	900.0	No

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW	2022/01/04	<MDL 0.19	100.0	No
Diclofop-methyl (ug/L) - TW	2022/01/04	<MDL 0.4	9.0	No
Dimethoate (ug/L) - TW	2022/01/04	<MDL 0.06	20.0	No
Diquat (ug/L) - TW	2022/01/04	<MDL 1.0	70.0	No
Diuron (ug/L) - TW	2022/01/04	<MDL 0.03	150.0	No
Glyphosate (ug/L) - TW	2022/01/04	<MDL 1.0	280.0	No
Malathion (ug/L) - TW	2022/01/04	<MDL 0.02	190.0	No
Metolachlor (ug/L) - TW	2022/01/04	<MDL 0.01	50.0	No
Metribuzin (ug/L) - TW	2022/01/04	<MDL 0.02	80.0	No
Monochlorobenzene (Chlorobenzene) (ug/L) - TW	2022/01/04	<MDL 0.3	80.0	No
Paraquat (ug/L) - TW	2022/01/04	<MDL 1.0	10.0	No
PCB (ug/L) - TW	2022/01/04	<MDL 0.04	3.0	No
Pentachlorophenol (ug/L) - TW	2022/01/04	<MDL 0.15	60.0	No
Phorate (ug/L) - TW	2022/01/04	<MDL 0.01	2.0	No
Picloram (ug/L) - TW	2022/01/04	<MDL 1.0	190.0	No
Prometryne (ug/L) - TW	2022/01/04	<MDL 0.03	1.0	No
Simazine (ug/L) - TW	2022/01/04	<MDL 0.01	10.0	No
Terbufos (ug/L) - TW	2022/01/04	<MDL 0.01	1.0	No
Tetrachloroethylene (ug/L) - TW	2022/01/04	<MDL 0.35	10.0	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW	2022/01/04	<MDL 0.2	100.0	No
Triallate (ug/L) - TW	2022/01/04	<MDL 0.01	230.0	No
Trichloroethylene (ug/L) - TW	2022/01/04	<MDL 0.44	5.0	No
2,4,6-Trichlorophenol (ug/L) - TW	2022/01/04	<MDL 0.25	5.0	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (ug/L) - TW	2022/01/04	<MDL 0.12	100.0	No
Trifluralin (ug/L) - TW	2022/01/04	<MDL 0.02	45.0	No
Vinyl Chloride (ug/L) - TW	2022/01/04	<MDL 0.17	1.0	No
Trihalomethane: Total (ug/L) Annual Average - DW	2022/01/01	58.00	100.0	No
HAA Total (ug/L) Annual Average - DW	2022/01/01	58.93	80.0	No

Note: TW = Treated Water, DW = Distribution Water, MDL = Minimum Detection Limit, MAC = Maximum Allowable Concentration, HAA = Haloacetic Acids

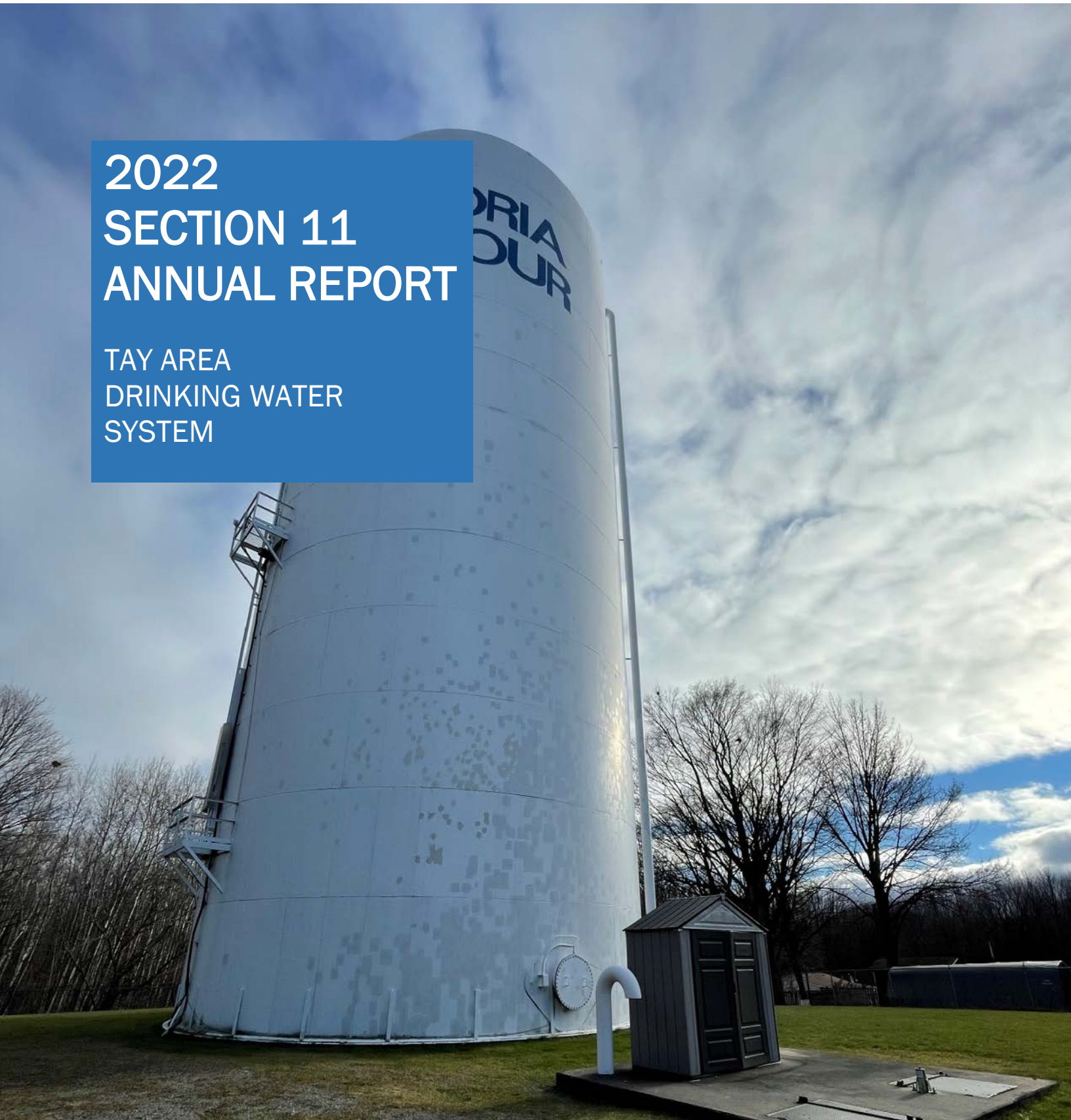
Note: The owner of a small or large municipal residential system that obtains water from a raw water supply that is surface water shall ensure that at least one water sample for organics is taken every 12 months (O.Reg 170/03, Schedule 13-4.(1)). The last set of samples were collected and tested in 2022, the next set of samples are scheduled to be collected and tested in 2023.

Table 7: List of Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards for the reporting period.

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result
Trihalomethane: Total Annual Average (µg/L) - DW	2022 (Quarterly)	58.00 µg/L
Haloacetic Acid: Total Annual Average (µg/L) - DW	2022 (Quarterly)	58.93 µg/L

2022 SECTION 11 ANNUAL REPORT

TAY AREA
DRINKING WATER
SYSTEM



For the period of
January 1st, 2022 to December 31st, 2022

Prepared for the Corporation of the Township of Tay by the Ontario Clean Water Agency



ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX
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This report was prepared in accordance with the requirements of [O.Reg 170/03, Section 11, Annual reports](#) for the following system and reporting period:

Drinking Water System Number:	220001076
Drinking Water System Name:	Tay Area Drinking Water System
Drinking Water System Owner:	The Corporation of the Township of Tay
Drinking Water System Category:	Large Municipal Residential
Reporting Period:	January 1, 2022 to December 31, 2022

Does the Drinking Water System serve more than 10,000 people?

No

Is the Annual Report available to the public at no charge on a website on the Internet?

Yes

Note: If a large municipal residential system serves more than 10,000 people, the owner of the system shall ensure that a copy of every report prepared under this section is available to the public at no charge on a website on the Internet. O. Reg. 170/03, Section 11. (10)

Location where Summary Report required under O. Reg 170/03, Schedule 22 will be available for inspection. (O. Reg 170/03, Section 11.(6)(f)):

- Township of Tay Municipal Office at 450 Park Street, Victoria Harbour, Tay Township
- <https://www.tay.ca/en/>

Note: This is required for large municipal residential systems or small municipal residential systems.

List all Drinking Water Systems (if any), which receive all of their drinking water from the system:

Drinking Water System Name	Drinking Water System Number
N/A	N/A

Is a copy of the annual report provided to all Drinking Water System owners that are connected to this system and to whom this system provides all of its drinking water?

N/A

How system users are notified that the annual report is available, and is free of charge. (O.Reg 170/03, Section 11.(7))

- | | |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | Public access/notice via the web |
| <input type="checkbox"/> | Public access/notice via Government Office |
| <input type="checkbox"/> | Public access/notice via a newspaper |
| <input checked="" type="checkbox"/> | Public access/notice via Public Request |
| <input type="checkbox"/> | Public access/notice via a Public Library |

☐ Public access/notice via other method: _____

Note: The owner of a drinking water system shall ensure that a copy of an annual report for the system is given, without charge, to every person who requests a copy. ((O.Reg 170/03, Section 11.(7)):

Description of Drinking Water System (O.Reg 170/03, Section 11.(6)(a)):

The Tay Area Drinking Water System is classified as a Large Municipal Residential Drinking Water System, servicing an approximate population of 8,000 persons. The system is comprised of Tay Area Water Treatment Plant, Low Lift Pumping Station, Waubashene Booster Pumping Station, Port McNicoll Booster Pumping Station, Maple Street (Victoria Harbour) Booster Pumping Station, and two below grade treated water reservoirs. The raw water is drawn from Hogg's Bay – Georgian Bay, treated and distributed through distribution watermain.

The raw water is supplied from Hogg's Bay and enters the Low Lift Pumping Station where it receives pre-chlorination (Sodium Hypochlorite for Zebra Mussel control, when required) and is conveyed to the Tay Area Water Treatment Plant. The raw water passes through the Microza Filter System (for particulate removal), then through Granular Activated Carbon Filters (to aid in the removal of taste, odour and organics), treated with UV (for primary disinfection) and Sodium Hypochlorite (for primary and secondary disinfection). The treated water is stored in two reservoirs/contact tanks before being distributed to users. The treated water is conveyed through the distribution system, as well as the Waubashene, Port McNicoll, and Maple Street (Victoria Harbour) Booster stations where the distribution water receives Sodium Hypochlorite for re-chlorination (secondary disinfection) and provided to the surrounding communities. Online equipment continuously monitors filter effluent turbidity, and free chlorine residual. The water treatment plant, and booster stations are equipped with standby power in the event of a power failure.

List of water treatment chemicals used by the system during the reporting period (O.Reg 170/03, Section 11.(6)(a)):

- Sodium Hypochlorite 12% Solution
- Stern PAC Aluminum Chloride Hydroxide Sulfate 30-35%
- Sodium Hydroxide 25% [January 1, 2022 – December 4, 2022]
- Sodium Hydroxide 50% [December 5– December 31, 2022]
- Citric Acid 50%

Significant expenses were incurred to:

- ☒ Install required equipment
☒ Repair required equipment
☒ Replace required equipment
☐ No significant expenses were incurred

Description of major expenses during the reporting period to install, repair or replace required equipment (O.Reg 170/03, Section 11.(6)(e)):

- Radio Replacement
- BTP Panel Installation

- Secondary Valve & Hydrant Replacements
- GAC System Installation
- Filter Rack 3 Installation
- Chlorine Analyzer Installed in Clearwells
- Bisulphite System Installation
- 135 Park Street Valve Repair
- Victoria Harbour Water Tower CL2 Analyzer and PLC Purchase
- UV2 Bank Leak Repairs
- Intake and Outfall Inspection
- Compressor Repair
- Pressure Reducing Valve Rebuilds
- 69 King Curb Stop Repair

Summary of any reports/notices submitted to the Ministry and/or Spills Action Centre in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg 170/03 during the reporting period, including a description of any corrective actions taken under Schedule 17 or 18 (O. Reg 170/03, Section 11.(6)(b),(d):

Incident Date (yyyy/mm/dd)	Parameter/ Notice of	Result & Unit	Reporting Summary, Corrective Actions & Resolution
2022/04/27	Distribution Water: Total Coliform	2 cfu/100 mL	<ul style="list-style-type: none"> • AWQI# 158264 – Distribution water total coliform exceeded regulatory standard (0 cfu/100 mL) • Laboratory reported exceedance to OCWA on 2022/04/27. OCWA notified SAC, local Health Unit and local MECP inspector on 2022/04/27. • As per O.Reg 170/03, Schedule 17-6, resamples were collected at site, upstream and downstream on 2022/04/27 & 2022/04/28. No further action required by Health Unit or MECP • Resample results received on 2022/04/28, and 2022/04/29, results were within regulatory requirements. • Written notice of resolution submitted on 2022/04/29. No further actions required.
2022/07/04	Raw Water: Suspected/ Occurring Harmful Algae Bloom (HAB)	0.4 µg/L	<ul style="list-style-type: none"> • AWQI# 159073 – Microcystin detected in raw water sample. • OCWA identified the exceedance on 2022/07/08. OCWA notified SAC, local Health Unit and Local MECP inspector on 2022/07/08.

Incident Date (yyyy/mm/dd)	Parameter/ Notice of	Result & Unit	Reporting Summary, Corrective Actions & Resolution
			<ul style="list-style-type: none"> As required by Section 6.4 of the MDWL, and as directed by MECP, continued with weekly shoreline inspections and collected raw and treated water samples weekly and tested for total microcystin (starting 2022/07/11) until 3 consecutive samples showed non-detection of microcystin and the algal bloom was no longer suspected/visually observed as directed by MECP. No further action required by Health Unit or MECP Raw water and treated water microcystin results from 2022/08/02 and 2022/08/15 showed non-detection of microcystin and the algal bloom was no longer suspected/visually observed. Written notice of resolution submitted on 2022/08/22. No further actions required.
2022/08/22	Distribution Water: Total Coliform	8 cfu/100 mL	<ul style="list-style-type: none"> AWQI# 159689 – Distribution water total coliform exceeded regulatory standard (0 cfu/100 mL) Laboratory reported exceedance to OCWA on 2022/08/24. OCWA notified SAC, local Health Unit and local MECP inspector on 2022/08/24. As per O.Reg 170/03, Schedule 17-6, resamples were collected at site, upstream and downstream on 2022/08/24 & 2022/08/25. No further action required by Health Unit or MECP Resample results received on 2022/08/25, and 2022/08/26, results were within regulatory requirements. Written notice of resolution submitted on 2022/08/31. No further actions required.
2022/10/08	Improperly Disinfected Water: Free Chlorine Residual	0.21 mg/L	<ul style="list-style-type: none"> AWQI# 160282 – Treated water free chlorine residual dropped below normal operating range (required CT for primary disinfection was achieved) OCWA notified SAC, local Health Unit on 2022/10/08, and local MECP inspector on 2022/10/10. As per O.Reg 170/03 Schedule 17-2, disinfection was restored, operator

Incident Date (yyyy/mm/dd)	Parameter/ Notice of	Result & Unit	Reporting Summary, Corrective Actions & Resolution
			<p>completed CT calculation and determined CT was met and AWQI was precautionary. No further actions required.</p> <ul style="list-style-type: none"> Written notice of resolution submitted on 2022/10/14. No further actions required.

Table 1. Microbiological testing done under the Schedule 10, 11 or 12 (as applicable) of O.Reg 170/03 during this reporting period (O.Reg 170/03, Section 11.(6)(c)).

Location	Number of Samples	Range of E. Coli or Fecal Results		Range of Total Coliform Results		Number of HPC Samples	Range of HPC Samples	
		Min.	Max.	Min.	Max.		Min.	Max.
Raw Water - RW	52	0	20	0	300	N/A	N/A	N/A
Treated Water	52	0	0	0	0	52	0	6
Distribution ^{1A}	312 ^{1a}	0	0	0	8	312	0	44

Note: HPC = Heterotrophic Plate Count

Note: Units for E.Coli or Fecal Results are cfu/100 mL, units for Total Coliform Results are cfu/100 mL, units for HPC results are cfu/1mL

^{1A} O.Reg. 170/03 Schedule 10-2.(1)(2)(3) requires at least eight distribution samples, plus one additional sample for every 1,000 people served by the system to be taken every month, with at least one of the samples being taken in each week and be tested for E.Coli, Total Coliforms and HPC. The number of people served by the system is 8,000 (as confirmed with the Owner on September 28, 2022), and therefore requires 16 samples per month.

Table 2. Operational testing done under Schedule 7, 8 or 9 (as applicable) O. Reg 170/03 during the period covered by this Annual Report (O. Reg 170/03, Section 11.(6)(c)).

Parameter & Location	Number of Samples	Range of Results	
		Min.	Max.
Filter Effluent Turbidity, Rack 1 (Continuous) [NTU]	8760	0.00	2.00 ^{2A}
Filter Effluent Turbidity, Rack 2 (Continuous) [NTU]	8760	0.00	2.00 ^{2A}
Filter Effluent Turbidity, Rack 3 (Continuous) [NTU]	8760	0.01	2.00 ^{2A}
Filter Effluent Turbidity, Rack 4 (Continuous) [NTU]	8760	0.00	2.00 ^{2A}
Free Chlorine Residual, Treated (Continuous) [mg/L]	8760	0.21 ^{2B}	2.64
Free Chlorine Residual, Distribution (Continuous) [mg/L]	8760	0.17	1.60

Note: The number of samples used for continuous monitoring units is 8760.

Note: If a drinking water system obtains water from a raw water supply that is surface water and the system provides filtration, the owner of a system shall ensure that sampling and testing for turbidity is carried out by continuous monitoring equipment on each filter effluent line (O.Reg.170/03, Schedule 7-3.(2)(b))

^{2A}Turbidity values are continuously monitored during production, maintenance and start up activities. Filter-to-waste is implemented to ensure effluent turbidity requirements are met at all times and membrane integrity is monitored on a weekly basis. No AWQIs have occurred for turbidity during the reporting period, filtered water turbidity is less than or equal to 0.1 NTU in 99% of the measurements each month for each filter train. Monthly filter efficiency requirements met.

^{2B}See precautionary AWQI details in the Summary of any reports/notices submitted to the Ministry and/or Spills Action Centre Table Above. CT was met.

Table 3. Summary of additional testing and sampling results carried out in accordance with the requirement of an approval, municipal drinking water licence or order (including OWRA) or other legal instrument during the reporting period and if tests required under this Regulation in respect of a parameter were not required during that period, summarize the most recent results of tests of that parameter (O. Reg 170/03, Section 11.(6)(c)):

Legal Instrument & Issue Date (yyyy/mm/dd)	Parameter	Date Sampled (yyyy/mm/dd)	Result	Unit of Measure
N/A	N/A	N/A	N/A	N/A

Table 4. Summary of Inorganic parameters tested during this reporting period or the most recent sample results^{3A} (O.Reg 170/03, Section 11.(6)(c))

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
Antimony: Sb (µg/L) - TW	2022/01/04	<MDL 0.6	6.0	No
Arsenic: As (µg/L) - TW	2022/01/04	0.2	10.0	No
Barium: Ba (µg/L) - TW	2022/01/04	25.7	1000.0	No
Boron: B (µg/L) - TW	2022/01/04	15.0	5000.0	No
Cadmium: Cd (µg/L) - TW	2022/01/04	<MDL 0.003	5.0	No
Chromium: Cr (µg/L) - TW	2022/01/04	0.14	50.0	No
Mercury: Hg (µg/L) - TW	2022/01/04	<MDL 0.01	1.0	No
Selenium: Se (µg/L) - TW	2022/01/04	0.04	50.0	No
Uranium: U (µg/L) - TW	2022/01/04	0.017	20.0	No
Fluoride (mg/L) - TW	2022/01/04 ^{4A}	<MDL 0.06	1.5	No
Nitrite (mg/L) - TW	2022/01/04	<MDL 0.003	1.0	No
Nitrite (mg/L) - TW	2022/04/11	<MDL 0.003	1.0	No
Nitrite (mg/L) - TW	2022/07/04	<MDL 0.003	1.0	No
Nitrite (mg/L) - TW	2022/10/03	<MDL 0.003	1.0	No
Nitrate (mg/L) - TW	2022/01/04	0.178	10.0	No
Nitrate (mg/L) - TW	2022/04/11	0.136	10.0	No
Nitrate (mg/L) - TW	2022/07/04	0.027	10.0	No
Nitrate (mg/L) - TW	2022/10/03	0.007	10.0	No

Note: TW = Treated Water

Note: The owner of a small or large municipal residential system that obtains water from a raw water supply that is surface water shall ensure that at least one water sample for inorganics is taken every 12 months (O.Reg 170/03, Schedule 13-2.(1)). The last set of samples were collected and tested in 2022, the next set of samples are scheduled to be collected and tested in 2023.

^{4A}Fluoride is reportable every 60 months. Next set of Fluoride samples is scheduled to be collected in 2027.

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Aesthetic Objective (AO)	Exceedance	
				AO	> 20 mg/L
Sodium: Na (mg/L) - TW	2022/01/04 ^{4B}	18.2	200	No	No

Note: MDL = Minimum Detection Limit, TW = Treated Water

Note: There is no regulatory Maximum Allowable Concentration (MAC) Sodium. The aesthetic objective (AO) for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.

^{4B}Sodium is reportable every 60 months. Next set of sodium samples is scheduled to be collected in 2027.

Table 5: Summary of lead testing under Schedule 15.1 during this reporting period (O.Reg 170/03, Section 11.(6)(g))

Location/Type & Parameter	Number of Samples ^{4A}	Range of Results		Number of Lead Exceedances
		Min.	Max.	MAC = 10 µ/L
Period: January 1 to April 15				
Plumbing – Lead (µg/L) ^{4B}	N/A	N/A	N/A	N/A
Distribution – Lead (µg/L) ^{4C}	3	0.01	0.04	0
Distribution – Alkalinity (mg/L as CaCO ₃)	3	71	75	N/A
Distribution – pH	3	6.83	7.34	N/A
Period: June 15 to October 15				
Plumbing – Lead (µg/L) ^{4B}	N/A	N/A	N/A	N/A
Distribution – Lead (µg/L) ^{4C}	3	0.01	0.38	0
Distribution – Alkalinity (mg/L as CaCO ₃)	3	63	66	N/A
Distribution – pH	3	7.68	7.85	N/A
Period: December 15 to 31				
Plumbing – Lead (µg/L) ^{4B}	N/A	N/A	N/A	N/A
Distribution – Lead (µg/L) ^{4C}	N/A	N/A	N/A	N/A
Distribution – Alkalinity (mg/L as CaCO ₃)	N/A	N/A	N/A	N/A
Distribution - pH	N/A	N/A	N/A	N/A

Note: this is required for large municipal residential systems, small municipal residential systems or non-municipal year-round residential system. (O.Reg 170/03, Section 11.(6)(g))

^{5A}This system follows a reduced sampling schedule (O.Reg. 170/03, Section 15.1.5). The number of sampling points for the system is based on the population served by the system. The number of people served by the system is 8,000 (as confirmed with the Owner on September 28, 2022), and therefore requires 3 distribution sampling points per sampling period.

^{5B}Plumbing samples are not applicable as this system qualifies for the plumbing exemption per O. Reg 170/03 Schedule 15.1-5 (9) (10).

^{5C}This system follows a reduced sampling schedule (O.Reg 170/03, Section 15.1.5). Distribution lead samples are collected every 36 months. The most recent set of distribution lead samples were collected within the winter period of December 15, 2021 to April 15, 2022 and summer period of June 15, 2022 to October 15, 2022. The next set of distribution lead samples is scheduled to be collected within the winter period of December 15, 2024 to April 15, 2025 and summer period of June 15, 2025 to October 15, 2025.

Table 6: Summary of Organic parameters sampled during this reporting period or the most recent sample results (O.Reg 170/03, Section 11.(6)(c)).

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
Alachlor (µg/L) – TW	2022/01/04	<MDL 0.02	5.0	No
Atrazine + N-dealkylated metabolites (µg/L) – TW	2022/01/04	<MDL 0.01	5.0	No
Azinphos-methyl (µg/L) – TW	2022/01/04	<MDL 0.05	20.0	No
Benzene (µg/L) - TW	2022/01/04	<MDL 0.32	1.0	No
Benzo(a)pyrene (µg/L) – TW	2022/01/04	<MDL 0.004	0.01	No
Bromoxynil (µg/L) – TW	2022/01/04	<MDL 0.33	5.0	No
Carbaryl (µg/L) – TW	2022/01/04	<MDL 0.05	90.0	No
Carbofuran (µg/L) – TW	2022/01/04	<MDL 0.01	90.0	No
Carbon Tetrachloride (µg/L) – TW	2022/01/04	<MDL 0.17	2.0	No
Chlorpyrifos (µg/L) – TW	2022/01/04	<MDL 0.02	90.0	No
Diazinon (µg/L) – TW	2022/01/04	<MDL 0.02	20.0	No
Dicamba (µg/L) – TW	2022/01/04	<MDL 0.2	120.0	No
1,2-Dichlorobenzene (µg/L) – TW	2022/01/04	<MDL 0.41	200.0	No
1,4-Dichlorobenzene (µg/L) – TW	2022/01/04	<MDL 0.36	5.0	No
1,2-Dichloroethane (µg/L) – TW	2022/01/04	<MDL 0.35	5.0	No
1,1-Dichloroethylene (µg/L) – TW	2022/01/04	<MDL 0.33	14.0	No
Dichloromethane (Methylene Chloride) (µg/L) – TW	2022/01/04	<MDL 0.35	50.0	No
2,4-Dichlorophenol (µg/L) – TW	2022/01/04	<MDL 0.15	900.0	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (µg/L) – TW	2022/01/04	<MDL 0.19	100.0	No
Diclofop-methyl (µg/L) – TW	2022/01/04	<MDL 0.4	9.0	No
Dimethoate (µg/L) – TW	2022/01/04	<MDL 0.06	20.0	No
Diquat (µg/L) – TW	2022/01/04	<MDL 1.0	70.0	No
Diuron (µg/L) - TW	2022/01/04	<MDL 0.03	150.0	No
Glyphosate (µg/L) – TW	2022/01/04	<MDL 1.0	280.0	No
Malathion (µg/L) – TW	2022/01/04	<MDL 0.02	190.0	No
Metolachlor (µg/L) – TW	2022/01/04	<MDL 0.01	50.0	No
Metribuzin (µg/L) - TW	2022/01/04	<MDL 0.02	80.0	No

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
Monochlorobenzene (Chlorobenzene) (µg/L) – TW	2022/01/04	<MDL 0.3	80.0	No
Paraquat (µg/L) – TW	2022/01/04	<MDL 1.0	10.0	No
PCB (µg/L) – TW	2022/01/04	<MDL 0.04	3.0	No
Pentachlorophenol (µg/L) – TW	2022/01/04	<MDL 0.15	60.0	No
Phorate (µg/L) – TW	2022/01/04	<MDL 0.01	2.0	No
Picloram (µg/L) – TW	2022/01/04	<MDL 1.0	190.0	No
Prometryne (µg/L) – TW	2022/01/04	<MDL 0.03	1.0	No
Simazine (µg/L) – TW	2022/01/04	<MDL 0.01	10.0	No
Terbufos (µg/L) - TW	2022/01/04	<MDL 0.01	1.0	No
Tetrachloroethylene (µg/L) - TW	2022/01/04	<MDL 0.35	10.0	No
2,3,4,6-Tetrachlorophenol (µg/L) - TW	2022/01/04	<MDL 0.2	100.0	No
Triallate (µg/L) - TW	2022/01/04	<MDL 0.01	230.0	No
Trichloroethylene (µg/L) - TW	2022/01/04	<MDL 0.44	5.0	No
2,4,6-Trichlorophenol (µg/L) - TW1	2022/01/04	<MDL 0.25	5.0	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (µg/L) - TW1	2022/01/04	<MDL 0.12	100.0	No
Trifluralin (µg/L) - TW1	2022/01/04	<MDL 0.02	45.0	No
Vinyl Chloride (µg/L) - TW1	2022/01/04	<MDL 0.17	1.0	No
Trihalomethane: Total Annual Average (µg/L) - DW	2022 (Quarterly)	50.06	100.00	No
Haloacetic Acid: Total Annual Average (µg/L) - DW	2022 (Quarterly)	74.25	80.00	No

Note: TW = Treated Water, DW = Distribution Water, MDL = Minimum Detection Limit, MAC = Maximum Allowable Concentration, HAA = Haloacetic Acids

Note: The owner of a small or large municipal residential system that obtains water from a raw water supply that is surface water shall ensure that at least one water sample for organics is taken every 12 months (O.Reg 170/03, Schedule 13-4.(1)). The last set of samples were collected and tested in 2022, the next set of samples are scheduled to be collected and tested in 2023.

Table 7: List of Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards for the reporting period.

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result
Trihalomethane: Total Annual Average (µg/L) - DW	2022 (Quarterly)	50.06 µg/L
Haloacetic Acid: Total Annual Average (µg/L) - DW	2022 (Quarterly)	74.25 µg/L



Staff Report

To: **Operational Services Committee**

Department: Operational Services/Engineering

Report Number: **OS - 2023-13**

Meeting Date: March 8, 2023

Subject: Traffic Counts/Speed Monitoring Program 2022

Recommendation

That Item OS 2023-13 dated March 8, 2023, regarding Traffic Counts and Speed Monitoring various streets in 2022, be received.

Executive Summary

The Engineering Division continues to monitor various streets throughout the Township for vehicle volume and speed. In 2022 staff placed the counter in 8 different locations between May and October. A summary of the findings is attached as schedule 1.

Background/Analysis/Options

In 2021 staff started placing our traffic counter on various streets throughout the municipality. Locations were chosen from complaints areas, staff concerns, and general high-volume streets. In 2022 staff tried to leave the counter out in specific locations for approximately 2 weeks to obtain a larger sample of the driving habits.

In 2023 staff will again get the two counters out throughout the Township. One of the counters is a box that is affixed to a pole that the motorist can't see, the other unit we purchased in 2022 has a speed indication sign as part of the unit. Both have their place when trying to analyze what the traffic patterns are in an specific area.

In 2023 staff will also survey other municipalities to see what they are doing with speed limits, traffic calming, safety zones and safe street initiatives. We will report back to council with a 2023 program summary.

Financial and Resource Implications

There are no financial or resource implications associated with this Report.

Relationship to Strategic Plan

Not Strategic Plan Specific - Other

Reference Documents

There are no reference documents associated with this Report.

Attachments

Schedule 1 - 2022 Count/Speed Summary

Prepared By

Shawn Berriault, C.Tech
General Manager Operational Services
Manager of Engineering

Approvals

Andrea Fay, Dipl. M.A.
Chief Administrative Officer/Deputy Clerk

Date

March 2, 2023

Street Name/Location	Posted Speed	85th Percentile Speed	Avg Speed	% over Limit	Avg Speeder	AADT	Total Veh Sampled	Class Counts			Date From	To
2022								SM(motorcycles)	MED(Sadan)	LG(Truck)		
Forest Harbour Pkwy-at 58 Forest Harbour Pkwy	50	47	38	8		94	1707	8	1656	43	21-Jul	08-Aug
Fesserton SR-3185 Fesserton SR	80	60	48	0	0	72	1073	22	987	64	27-Sep	12-Oct
Talbot Street- Across from 570 Talbot Street	60	69	63	66	67	2489	32455	222	31227	1006	13-Sep	26-Sep
Osborne Street-midblock on vacant section	50	71	62	64	64	166	3660	5	3513	142	27-Jun	19-Jul
Osborne Street-Adjacent to 66 Osborne Street	50	55	47	33	56	278	5252	5	5090	157	02-Jun	21-Jun
Rumney Road-2332 Rumney Road	80	90	75	41	89	380	5316	4	5028	284	13-Oct	27-Oct
Hoyt Avenue-82 Hoyt Avenu	50	51	43	18	55	243	4613	9	4349	255	05-May	24-May
West Service Road-2492 West Service Road	80	87	74	39	89	176	1237	0	1175	62	11-Nov	18-Nov



Staff Report

To: **Operational Services Committee**

Department: Parks, Recreation and Facility Services

Report Number: **OS - 2023-09**

Meeting Date: March 8, 2023

Subject: Monthly Activity Report – Manager of Parks, Recreation and Facilities Services

Recommendation

That Item OS 2023-09 dated March 8, 2023, regarding Monthly Activity Report – Manager of Parks, Recreation and Facilities Services, be received.

Executive Summary

Manager of Parks, Recreation and Facility Services monthly activity report for the period of February 1, 2023, to February 28, 2023.

Background/Analysis/Options

Recreation

Summer Day Camp and Soccer Programs

Staff is preparing plans for the Summer Day Camp and Summer TOTS Soccer programs for 2023. This year, much like last, Summer Day Camps will be offered at both Oakwood Community Centre and Port McNicoll Community Centre. Plans are also underway for the TOTS Summer Soccer program that returned last season with huge success. Registration for Summer Day Camps and TOTS Soccer will begin on Monday May 1st at 8:30am.

North Simcoe Parks and Recreation Guide

The Spring/Summer edition of the guide is slated to be released on Thursday April 27th; this guide will cover the Summer Day Camp, TOTS Soccer and Summer Active Living programs planned within the Township.

Spring Active Living Programs

Spring Active Living Programs will open for registration on Monday March 6th at 8:30am. The Township has put together a great selection of programs which will begin the week of April 3rd and run until the week of June 19th (12 weeks in duration).

Port McNicoll Recreation Committee

The Port McNicoll Recreation Committee is putting together plans to run the ever so popular Paul Spencer Soap Box Derby again in 2023, on Sunday May 21st. The Committee is in the beginning stages of event plans and further details will be provided when they become available.

Canada Day Committee

The Canada Day Committee is moving forward with plans for their 2023 event. The Committee is in the final stages of firming up all of their entertainment for the two-day event and hopes to have a preliminary event schedule ready in the coming month. Once more details are finalized, they will be rolled out to the community.

Portarama Committee

The Portarama Committee reports that plans are underway for a 2023 event. The Committee has been working behind the scenes on several events and activities and hope to have a formal meeting in the coming weeks.

Parks***Oakwood Park Improvements***

Staff are working on the RFQ document for the placement and finishing of the new concrete pad that will be installed at the Oakwood Park Outdoor Rink site in early spring 2023. Once the pad is in place, the new arena dasher board system will be installed.

Outdoor Rink maintenance

Unfortunately, due to the ever-fluctuating winter temperatures this year the Township Outdoor Rinks were never in a good enough position to be opened.

Facilities***Tay Community Rink Addition***

Staff have been working with the Architect to solidify the conceptual drawing plans for the addition at the Tay Community Rink. The addition will see two new changerooms added at the facility with additional storage space for the Municipality. Once the drawing set is complete, it will be issued for tender.

Tay Community Rink

The Tay Community Rink had another busy month in February with the community utilizing the facility quite frequently during free open public times. The Rink is scheduled to be closed for the season on Tuesday March 21st. As always, staff are preparing for a busy March break at the facility.

Miscellaneous Facility Work

- Replaced two ballasts at OPP satellite office
- Installed new blower motor in furnace at Waubaushene fire hall
- Cleaned and provided preventative maintenance to radiant tube heater at the Tay Rink - Olympia Room
- Installed new light wall pack on exterior out building at Talbot Park (lights the walkway for Tay Rink and Park washroom doors)
- Painted office spaces for new staff at the Municipal Office
- Repaired hole in drywall at Tay Rink washroom
- Repaired HVAC unit rooftop at Municipal Office over Finance area (no heat call)
- JHSC calls completed

Upcoming Events

- April 1 - Port McNicoll Recreation Committee – Easter Event – Port McNicoll Community Centre
- April 8 – Victoria Harbour Lions Club - Easter Event – Oakwood Community Centre
- May 19-21 – Portarama – various locations, Port McNicoll
- May 21 – Paul Spencer Soap Box Derby – Talbot St., Port McNicoll
- June 17 – Tay Bike Day – Bridgeview Park, Waubaushene
- June 23 & 24 – Canada Day Celebrations – Oakwood Park, Victoria Harbour
- November 26 – Santa Claus Parade – Pine St., Waubaushene
- December 3 – Township Tree Lighting Event – Port McNicoll Library

Meetings

- Operational Services Committee
- Post Council meeting
- Leadership Team
- Operational Services Inter-Departmental meetings
- Canada Day Committee
- Port McNicoll Recreation Committee
- SCRA - Monthly Programming Meeting
- Horticultural Committee Meeting
- North Simcoe Municipalities – Arena fees discussion

Training

The following training/webinars were attended:

- N/A

Financial and Resource Implications

There are no financial or resource implications associated with this Report.

Relationship to Strategic Plan

Not Strategic Plan Specific - Other

Reference Documents

There are no reference documents associated with this Report.

Attachments

There are no attachments to this Report.

Prepared By

Bryan Anderson, CRFP, CIT

Manager of Parks, Recreation and Facility Services

Approvals

Shawn Berriault, C.Tech

General Manager Operational Services

Manager of Engineering Services

Date

March 1, 2023

Andrea Fay, Dipl. M.A.

Chief Administrative Officer/Deputy Clerk

March 2, 2023



Staff Report

To: **Operational Services Committee**

Department: Roads and Fleet Services

Report Number: **OS - 2023-10**

Meeting Date: March 8, 2023

Subject: Monthly Activity Report – Manager of Roads and Fleet Services

Recommendation

That Item OS 2023-10 dated March 2, 2023, regarding Monthly Activity Report – Manager of Roads and Fleet Services, be received.

Executive Summary

Manager of Roads and Fleet Services monthly activity report for the period of February 1, 2023 to February 28, 2023.

Background/Analysis/Options

Roads

Gravel Road Maintenance

We have been grading the gravel roads throughout Tay Township on milder days to keep the roads within the Minimum Maintenance Standards.

Road Maintenance

Crews have been out applying “Cold Patch” to any newly formed potholes, the crews will be out frequently filling potholes as this is considered to be pothole season.

Winter Maintenance

Winter Road Maintenance

The staff have been out in full force, keeping our roads at above the Minimum Maintenance Standards, with the milder weather and not many weather events we have switched from 2 shifts back to 1 shift at this time.

Winter Sidewalk Maintenance

The staff have been continuously working hard to keep the sidewalks clear and safe for pedestrian traffic, they have been successful maintaining to the standards with minimal equipment break downs.

Speed Signs

We will be starting to place the speed signs out starting April 10, 2023 (weather dependent) first locations will be 1 on Rumney Road and 1 on Park Street.

Fleet

The Second of Three Plow Trucks is complete and is ready for pre-delivery inspection, we have yet to receive any confirmation on the third plow truck at this time, but we are hoping to have a timeline shortly. The first plow truck has been performing exceptionally well.

We are making a fleet maintenance program for all municipally owned vehicles and equipment.

Meetings

- Post Council meeting
- Leadership Team

Training

None at this time.

Financial and Resource Implications

There are no financial or resource implications associated with this Report.

Relationship to Strategic Plan

Not Strategic Plan Specific - Other

Reference Documents

There are no reference documents associated with this Report.

Attachments

There are no attachments to this Report.

Prepared By

Rick Wayne
Manager of Roads and Fleet Services

Approvals

Shawn Berriault, C.Tech
General Manager Operational Services
Manager of Engineering Services

Andrea Fay, Dipl. M.A.
Chief Administrative Officer/Deputy Clerk

Date

March 2, 2023

March 2, 2023



Staff Report

To: **Operational Services Committee**

Department: Operational Services/Engineering

Report Number: **OS - 2023-11**

Meeting Date: March 8, 2023

Subject: Monthly Activity Report – General Manager Operational Services/Engineering

Recommendation

That Item OS 2023-11, dated March 8, 2023, regarding Monthly Activity Report – General Manager Operational Services/Engineering, be received.

Executive Summary

General Manager Operational Services/Engineering monthly activity report for the period of February 1, 2023, to February 28, 2023.

Background/Analysis/Options

Procurement

Continue to work on the DSS RFP for all water and wastewater facilities.

Wastewater

- VH WWTC Expansion update
 - RFP preparation for Geotechnical services for this project.

The Quarterly Bypass and Overflow Reporting Summary October 2022 to December 2022 have been submitted to MECP. Below is an overview of the reports. Happy to report no overflows or bypasses during this reporting period.

Victoria Harbour Wastewater Treatment Plant

Facility: Victoria Harbour WWTP

ECA#: 3389-A5BKJJ (Issued February 1, 2016)

Reporting Deadline: February 14, 2023

Reporting Period: October to December 2022 (Q4)

Number of Bypasses During the Reporting Period:

Number of Overflows During the Reporting Period:

Requirement: Section 5. (3) The Owner shall submit By-pass and Plant Overflow Event Reports to the Ministry's local office on a quarterly basis, no later than each of the following dates for each calendar year: February 14, May 15, August 14, and November 15. Event Reports shall be in an electronic format specified by the Ministry. In each Event Report the Owner shall include, at a minimum, the following information on any Events that occurred during the preceding quarter:

- (a) the date of the Event(s);
- (b) the measured or estimated volume of the Event(s);
- (c) the duration of the Event(s);
- (d) the location of the Event(s);
- (e) the reason for the Event(s); and
- (f) the level of treatment the By-pass(es) and/or Plant Overflow(s) received and disinfection status of same.

Bypass and Plant Overflow Events

Type of Event	Date of the Event	Estimated or Measured Volume (m ³)	Duration of the Event	Location of the Event	Reason for the Event	Level of Treatment the Bypass/Overflow received and disinfection status
n/a	n/a	n/a	n/a	n/a	n/a	n/a

Port McNicoll Wastewater Treatment Plant

Facility: Port McNicoll WWTP

ECA #: 8421-9PMHXN (Issued October 21, 2014)

Reporting Deadline: February 14, 2023

Reporting Period: October to December 2022 (Q4)

Number of Bypasses During the Reporting Period: 0

Number of Overflows During the Reporting Period: 0

Requirement: Section 4 (3) The Owner shall submit By-pass and Plant Overflow Event Reports to the Ministry's local office on a quarterly basis, no later than each of the following dates for each calendar year: February 14, May 15, August 14, and November 15. Event Reports shall be in an electronic format specified by the Ministry. In each Event Report the Owner shall include, at a minimum, the following information on any Events that occurred during the preceding quarter:

- the date of the Event(s);
- the measured or estimated volume of the Event(s);
- the duration of the Event(s);
- the location of the Event(s);
- the reason for the Event(s); and
- the level of treatment the By-pass(es) and/or Plant Overflow(s) received and disinfection status of same.

Bypass and Plant Overflow Events

Type of Event	Date of the Event	Estimated or Measured Volume (m ³)	Duration of the Event	Location of the Event	Reason for the Event	Level of Treatment the Bypass/Overflow received and disinfection status
n/a	n/a	n/a	n/a	n/a	n/a	n/a

As required by the Wastewater System Effluent Regulation (WSER) the **Quarterly Monitoring Report** has been uploaded to Environment Canada's Effluent regulatory Reporting Information System (ERRIS) for **Q4 2022** for both the **Victoria Harbour WWTP** and **Port McNicoll WWTP**.

Both the **Victoria Harbour WWTP** and **Port McNicoll WWTP** effluent was **within** the limits under WSER for **CBOD5** and **Total Suspended Solids** for this report period.

Water

- OCWA Compliance along with OCWA staff and township staff are preparing the required yearend reports.
 - Annual Reports for Tay Area Drinking Water System and Rope Drinking water system are included in a separate report.
 - The Schedule 22 Summary Report will be sent to March Council.
 - OCWA provide notification to staff of Completion of the DWQMS (Drinking Water Quality Management System) Management Review 2022 for a Multi-Facility (Tay Area and Rope Drinking water systems). Records are on file at the township's municipal office.

As we have finished our first full year of OCWA operating our water and wastewater systems, I would like to extend my appreciation to all OCWA staff for the dedication to the Tay water and wastewater systems.

Operational Services

- Continue to work with SLT on the 2023 budget
- Winter patrol and snow operations
- Admin staff have been working on updates to the Operational Services area of our new website that was launched in February! Excellent job by everyone involved.
- Help various other divisions during this time period

Special Events/Recreation

Nothing new to report

Engineering

- Reviewing all traffic data collected in 2022. Summary report will be coming to March committee meeting.

- Continue to work with various developers to finalize the acceptance of subdivision works
- Working with WSP and OCWA on various components of the VH WWTC upgrade design.
- Working with architect on plans for Tay Community Rink Addition

Meetings/Training

- Post Council meeting
- Leadership Team meeting
- SLT meetings
- 2023 budget meetings
- Lot grading meetings
- Council Meeting
- MS Office training

Grant Updates

Staff have found two new grant streams. We have reached out to see if any of our 2023 projects would apply to these grants, further details to follow.

Financial and Resource Implications

There are no financial or resource implications associated with this Report.

Relationship to Strategic Plan

Not Strategic Plan Specific - Other

Reference Documents

There are no reference documents associated with this Report.

Attachments

There are no attachments to this Report.

Prepared By

Shawn Berriault, C.Tech
General Manager Operational Services
Manager of Engineering

Approvals

Andrea Fay, Dipl. M.A.
Chief Administrative Officer/Deputy Clerk

Date

March 2, 2023