



The Corporation of the Township of Tay
Operational Services Committee
Agenda

March 9, 2022

1:30 p.m.

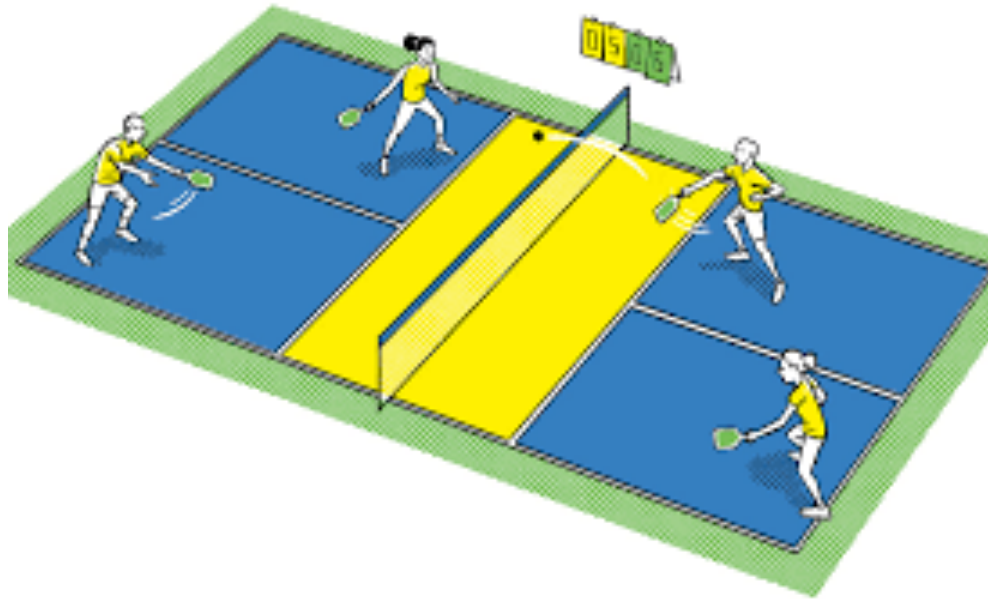
Remote Video and Telephone Conference

PUBLIC NOTICE: Due to COVID-19 pandemic precautions regarding physical distancing and in accordance with Ontario Regulation 52/20, which restricts an organized public event of more than five people, Committee will be meeting remotely by video and telephone conference. For details on how to view the video conference meeting visit <https://www.tay.ca/Meetings>. To listen to the meeting by telephone call 705-999-0385 (a local telephone number) and enter meeting ID number 830 6034 8902.

Pages

1. **Call to Order**
2. **Adoption of the Agenda**
Recommendation:
That the Operational Services Committee Meeting Agenda for March 9, 2022 be adopted as circulated.
3. **Disclosure of Interest**
4. **Presentations / Delegations**
 - 4.1. **1:30 - Talpines Property Owners' Association, Re: Request to install one permanent pickleball court at Bridgeview Park** 3
 - 4.2. **1:45 - Mike Mortimer, Ontario Clean Water Agency, Re: Water Summary and Annual Reports** 6
5. **Standing Committee Business**
 - 5.1. **Adoption of Minutes**
 - 5.1.1. **Operational Services Committee Minutes - February 9, 2022** 51
Recommendation:
That the Operational Services Committee meeting minutes of February 9, 2022 be adopted.
 - 5.2. **Reports from Municipal Officials**

5.2.1.	OS-2022-17 General Manger Operational Services, Re: 2022 Capital Water Project Recommendation: That Staff Report No. OS-2022-17 regarding the 2022 Capital Budget for Water/Sewer and Road projects be received for information.	54
5.2.2.	OS-2022-11 General Manager Operational Services, Re: Water Servicing Questionnaire – Tanners Road, Duffy Drive, and Area Recommendation: That Staff Report No. OS-2022-11 regarding Water Servicing Questionnaire - Tanners Road, Duffy Drive, and Area be received; and That Council direct staff to prepare cost estimates for the 3 residents interested in a water service now using best management practices and present these estimates to the interested residents.	61
5.2.3.	OS-2022-15 2021 General Manager Operational Services, Re: Drinking Water Inspection Reports -Tay Area and Rope Water Systems Recommendation: That Staff Report No. OS-2022-15 regarding the 2021 Drinking Water Inspection Reports for the Tay Area Water System and the Rope Water System be received for information.	64
5.2.4.	OS-2022-16 Manager of Roads and Fleet Services, Re: 2022 Pulverizing Asphalt Based Roads Recommendation: That Staff Report No. OS-2022-16 regarding RFQ 2022-04 Quotation for Pulverizing Asphalt Based Roads and blending with sub materials be received; and That Council accept the lowest quote for Pulverizing Asphalt tender bid from Roto-Mill Inc. for \$28,176.55, including HST.	85
5.2.5.	OS-2022-14 General Manager Operational Services, Re: Monthly Activity Report	89
5.2.6.	OS-2022-12 Manager of Parks Recreation and Facility Services, Re: Monthly Activity Report	92
5.2.7.	OS-2022-13 Manager of Roads and Fleet Services, Re: Monthly Activity Report	96
5.3.	Other Business	99
5.3.1.	Correspondence - Christine van Zandbergen, Re: Banners4Veterans	102
5.3.2.	Correspondence from Resident, Re: Arbour Trail Winter Maintenance	105
5.4.	Items for Information	
6.	<u>General Discussion – Committee/Staff Question & Answer Period</u>	
7.	<u>Closed Session</u>	
8.	<u>Adjournment</u> Recommendation: That this meeting adjourn at (time) p.m.	



DELEGATION TO TAY COUNCIL

Last summer for the first time, PICKLEBALL came to WAUBAUSHENE. Council permitted Talpines and its' members Barry and Sue Dougherty to establish an informal PICKLEBALL court on the concrete ice rink at Bridgeview Park. Manager Bryan Anderson provided three portable nets and pickleball paddles, and the paint needed to sketch out three courts. Talpines volunteers painted the court lines, and from that time forward, Barry and Sue Dougherty, Eve and Paul Roberts and others set up the portable nets on the ice rink surface early in the morning four times a week, and took them down at night so they would not be stolen.

Barry and Sue ran « clinics » to teach residents how to play and before long, more than thirty people learned the game and came out to play. It was

a lot of work, but a lot of fun, and made this activity available locally in Waubaushene to seniors, adults, and kids of all ages.

Net set up and removal is a tough gig, however, and had to be limited to four times a week.

AS SPRING AND SUMMER APPROACH, and as COVID wanes 🙌 it appears that more and more residents want to play pickleball. Some residents wanted to play in the evening after work or school, and this was not always possible to accommodate due to net set up and take down issues. We therefore request the following:


PERMISSION TO INSTALL ONE PERMANENT NET AND 2 POSTS ON THE CONCRETE ICE RINK SO ONE COURT CAN ALWAYS BE AVAILABLE.. The portable nets would be used to supplement during teaching or tournaments. The remainder of the surface would be free for basketball, rollerblading, or ball hockey. Barry and Sue have also committed to giving pickleball seminars to Benny Club kids.

The Waubaushene Recreation Committee supports this initiative. The permanent posts and nets would be paid for entirely through local fundraising efforts. (approx. 700 \$) All we need from you is:

- 1. permission**
- 2. Staff to drill two holes for the posts, which could be capped for ice rink creation.**

WE HOPE YOU WILL SUPPORT THIS INITIATIVE! While it is our dream to have a multi use sports pad someday at Bridgeview, this would be an excellent interim measure to build participation for seniors, adults and youth in our area. Thank you for considering this request.





**Township of Tay
2021 Regulatory Reporting Requirements
Review of OCWA Operations**

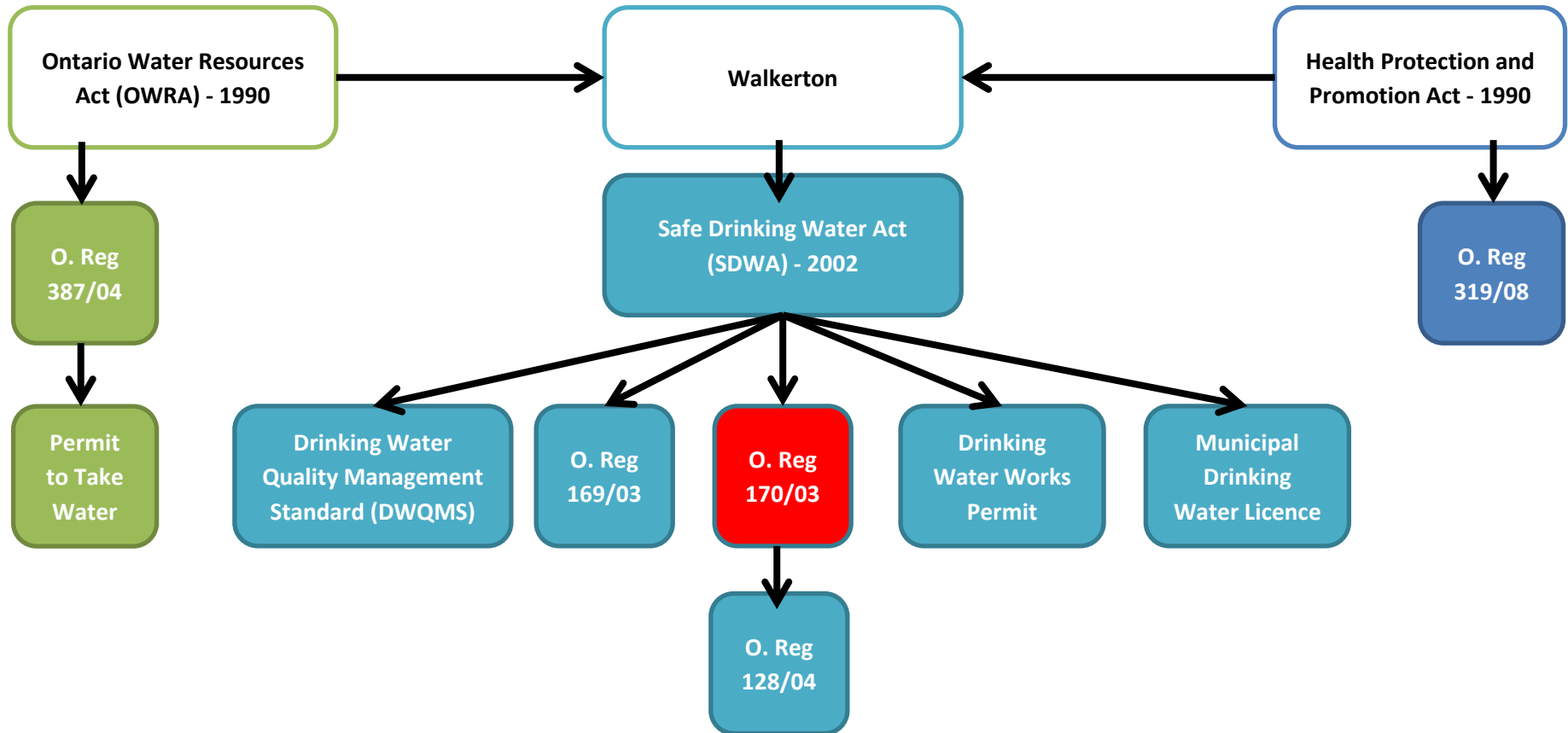
By: Mike Mortimer



Presentation Outline

- Ontario Regulations & Reporting Background
- Ministry of Environment Drinking System Inspections
- Section 11 - Annual Reports
- Schedule 22 - Summary Reports
 - Reporting Requirements
 - Facility Results
- Review of OCWA Operations

Regulation Background



Ministry of the Environment Inspection Reports

- Both Tay and Rope Drinking Water Systems, under Ontario Regulation 170/03 of the Safe Drinking Water Act are to receive annual inspections by the MECP
- The inspection summary outlines all aspects of the multibarrier approach
 - ❖ Source water protection
 - ❖ Treatment
 - ❖ Distribution
 - ❖ Monitoring
 - ❖ Management

Ministry of the Environment Inspection Reports

- Tay Area DWS Inspection
 - 96.32% Compliance Rating
 - N/C for Treatment Equipment

- Rope DWS Inspection
 - 100% Compliance Rating



Reporting Background

Ontario Regulation 170/03: Reporting Requirements

1. Schedule 16 – Reporting Adverse Test Results and Other Problems
 - Adverse Water Quality Incidents
2. Section 11 – Annual Reports
 - Summarizes the “quality” of the treated water
3. Schedule 22 – Summary Reports
 - Summarizes the “quantity” of the raw and treated water



Schedule 16 – Adverse Test Results

- Tay Area DWS
- A total of 2 Adverse Water Quality Incidents (AWQI)
 - Distribution Low Chlorine Residual
 - Treatment Entry Point Low Chlorine Residual
- Rope DWS
- A total of 2 Adverse Water Quality Incidents (AWQI)
 - Distribution Low Pressure
 - Monthly Turbidity Exceedance



Section 11 - Annual Reports

- Chemicals used in both Drinking Water Systems
- Description of significant expenses incurred
- Microbiological testing (table 1)
- Operational testing (table 2)
- Summary of inorganic parameters (table 4)
- Summary of lead testing (table 5)
- Summary of organic parameters (table 6)
- Parameters that exceeded half the standard(table 7)



Schedule 22 - Summary Reports

Reporting Requirements

RAW WATER

- Average Daily Volume vs. Permit to Take Water
- Maximum Daily Volume vs. PTTW

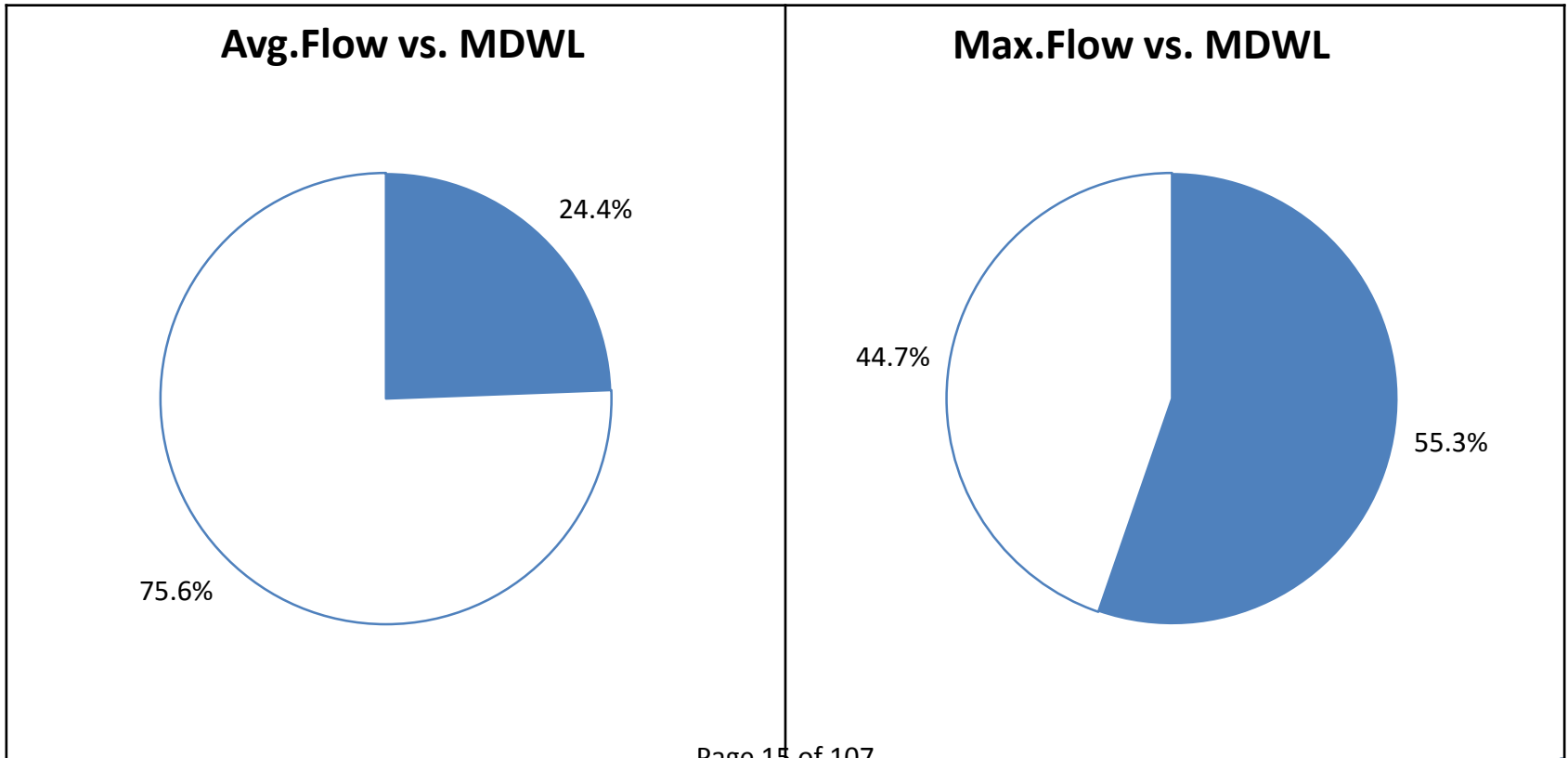
TREATED WATER

- Average Daily Volume vs. Municipal Drinking Water Licence
- Maximum Daily Volume vs. MDWL

Schedule 22 - Summary Reports

Results: Tay Area Drinking Water System

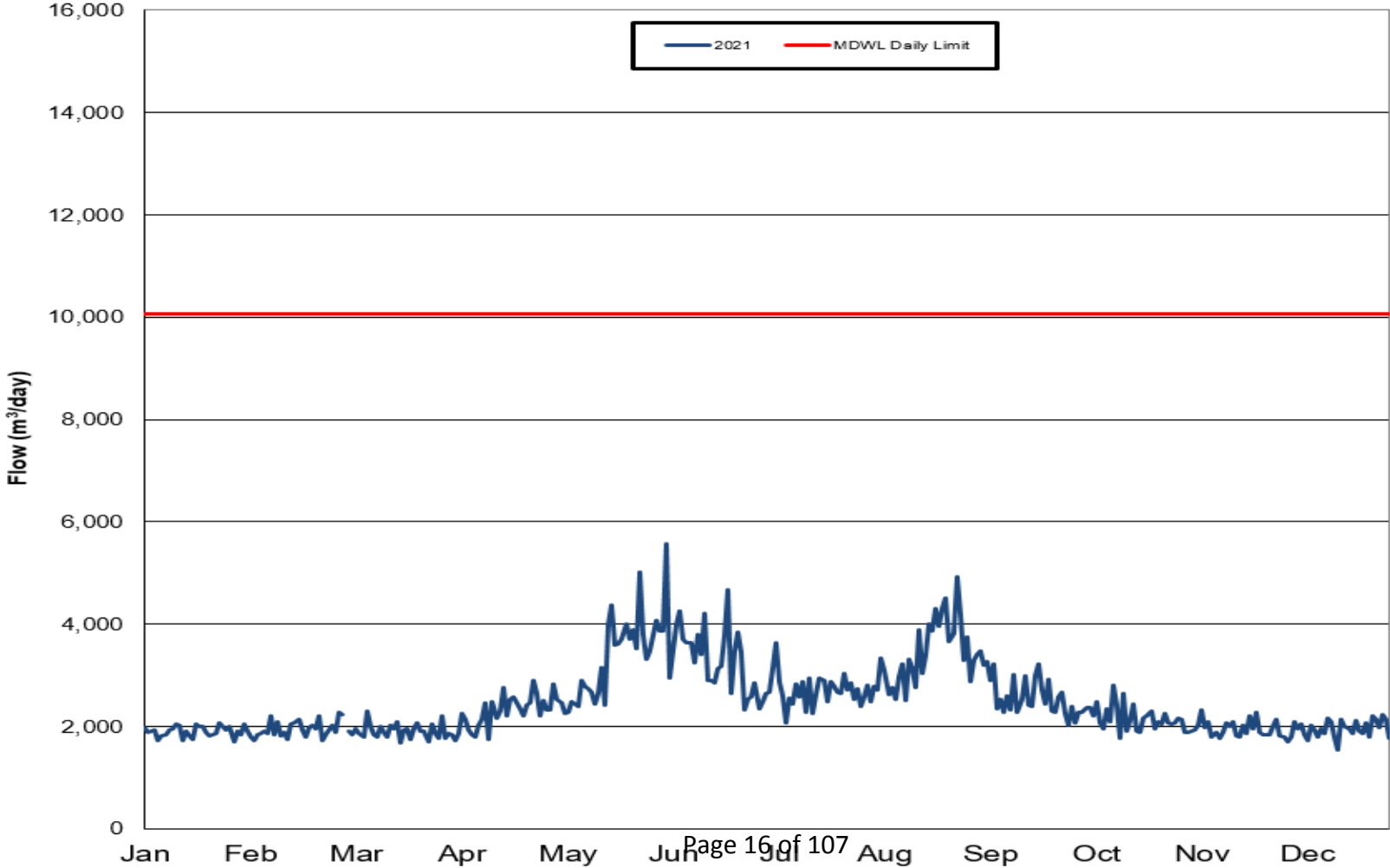
TREATED WATER → AVERAGE DAILY & MAXIMUM DAILY vs. MDWL



Tay Area Drinking Water System Treated Water Monthly Flow



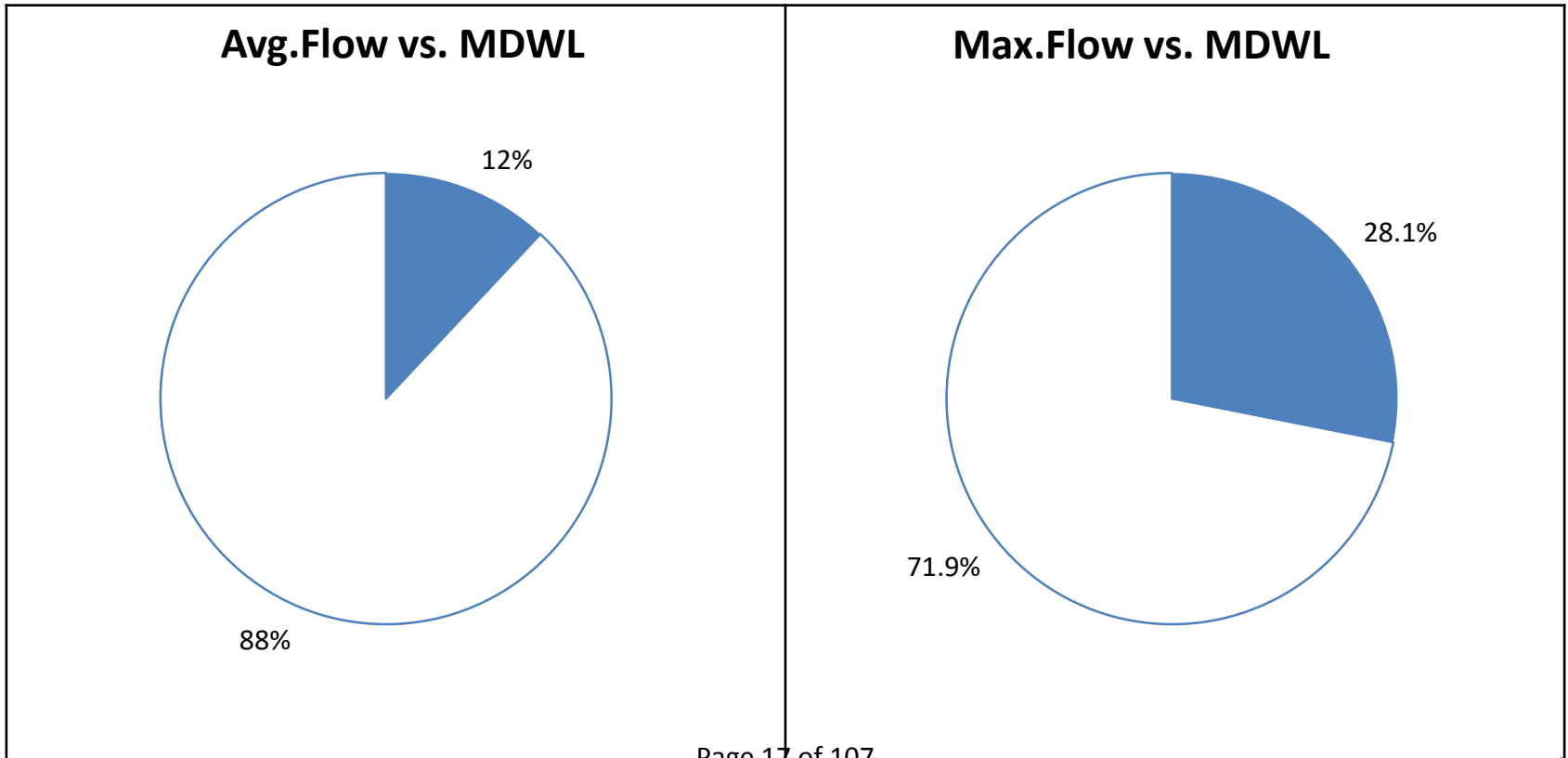
Tay Area DWS - Total Treated Flows
(2021)



Schedule 22 - Summary Reports

Results: Rope Drinking Water System

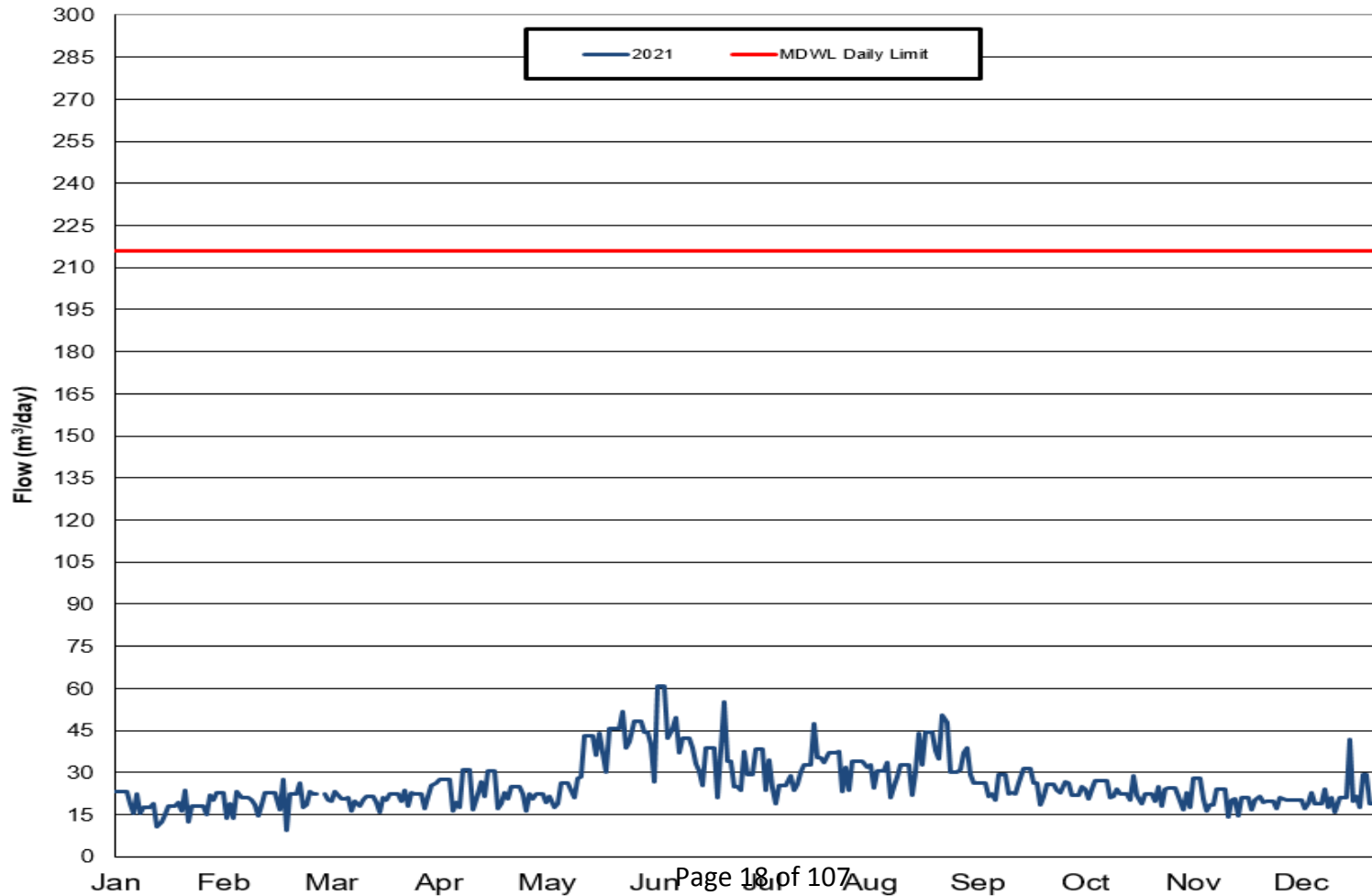
TREATED WATER → AVERAGE DAILY & MAXIMUM DAILY vs. MDWL



Rope Drinking Water System Treated Water Monthly Flow



Rope DWS - Total Treated Flows
(2021)





2021 Operational Review

OCWA Transition

- Computerized Maintenance Management System (CMMS)
 - OCWA has completed site assets data collection at all facilities and pumping stations
 - 665 assets have been tagged with a bar code and ID number
 - All assets have been inventoried and uploaded in the Maximo
 - All maintenance plan PM's schedules and milestones are currently in progress
- Long Term Capital Plan
- Process Optimization Study
- Staff Onboarding and Training
- Quarterly Reports



Facility Upgrades

- New High Lift Pump at Rope Drinking Water System
- Upgraded Several Alarm Dialers and Alarm Communication Packs
- Completed Wastewater Pump Station Cleanouts
- Gas Meter Inspections and Calibrations
- New Blower installed at the Port McNicoll WWTP
- Rebuilt Chemical Pumps at all Locations



Summary

- ✓ Ministry of the Environment Inspection Results
 - Successful inspection reports for both Tay and Rope
- ✓ Annual Reports
 - All water quality requirements met
- ✓ Schedule 22 Summary Reports
 - All reporting requirements met
 - No concerns with water capacity
- ✓ Review of Operations
 - Quarterly Reports in 2022
- ✓ Recommend that Report to be received by Council

ANNUAL REPORT

ONTARIO REGULATION 170/03
SECTION 11

ROPE DRINKING WATER SYSTEM



**FOR THE PERIOD:
JANUARY 1, 2021 – DECEMBER 31, 2021**

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





Ontario Drinking-Water Systems Regulation O. Reg. 170/03

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 System
Period being reported:	January 1, 2021 to December 31, 2021

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

No

Is your annual report available to the public at no charge on a web site on the Internet?

Yes

Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.

Summary Report is available for inspection at the Township of Tay Municipal Office at 450 Park Street, Victoria Harbour, Tay Township, ON, L0K 2A0 or on the following website: <https://www.tay.ca/en/>

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

Drinking Water System Name	Drinking Water System Number
Not Applicable	Not Applicable

Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water?

Not Applicable

Indicate how you notified system users that your annual report is available, and is free of charge.

- Public access/notice via the web
- Public access/notice via Government Office
- Public access/notice via a newspaper
- Public access/notice via Public Request
- Public access/notice via a Public Library
- Public access/notice via other method

Description of Drinking-Water System:

The Rope Drinking Water System is located on 204 Ruta Road in Waubauskene and supplies drinking water to an estimated population of 70 persons. Water is supplied through Severn Sound within the Georgian Bay. The Rope treatment system utilizes ZENON Environmental filter system, UV disinfection and chlorine dosing to treat the source water. This Drinking Water System is classified as a Class II Water Treatment facility.

The distribution system services an estimated 36 private residences. The distribution system is comprised of 430m of PVC water main, seven main isolation valves, and four hydrants. The Rope Drinking Water System is classified as a Class I Water Distribution Subsystem.

List of water treatment chemicals used during the reporting period:

- Sodium Hypochlorite 12% Solution NSF, Primary Disinfection
- Stern PAC Aluminum Chloride Hydroxide Sulfate 30-35%
- Sodium Hydroxide 25% (Membrane Cleaning)
- Citric Acid 50% (Membrane Cleaning)

Significant expenses incurred to:

- Install required equipment
- Purchase required equipment
- Repair required equipment
- Replace required equipment

Description of significant expenses incurred:
1. Control Panel Upgrades

Details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre:

Incident Date (yyyy/mm/dd)	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date (yyyy/mm/dd)
2021/02/01	Turbidity	>0.1	NTU	AWQI # 153493, 153634, 153349 - Turbidity was above 0.1 NTU for 99% of the time, exceeding the limit for the month. This was due to ongoing filter system repairs and replacement. No notable issues to water quality noted during this period, disinfection was monitored and maintained. Filter function fully restored on March 3, 2021.	2021/03/03
2021/10/29	System Pressure Loss	n/a	n/a	AWQI # 156265 - Pressure was restored as soon as reasonably possible. Chlorine residual measured to ensure disinfection requirements met. Boil Water Advisory issued. Two sets of distribution samples were taken 24 hours apart, confirming no contamination present.	2021/10/29

Table 1: Microbiological testing done under the Schedule 11 of Regulation 170/03 during this reporting period.

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 - RW	52	0	40	0	2820	N/A	N/A	N/A
Treated - TW	52	0	0	0	0	52	0	<10
Distribution - DW	104	0	0	0	0	104	0	<10

Table 2: Operational testing done under Schedule 7 of Regulation 170/03 during the period covered by this Annual Report.

Location & Test	Number of Samples	Range of Results	
		Minimum	Maximum
Turbidity, Treated Train 1 RW1 (Continuous) [NTU]*	8760	0.00	2.00
Turbidity, Treated Train 2 RW2 (Continuous) [NTU]*	8760	0.00	2.00
Free Chlorine Residual, Treated TW1 (Continuous) [mg/L]**	8760	0.53	1.81
Free Chlorine Residual, Distribution (Grab) [mg/L]	104	0.19	1.28

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

*Turbidity values are not actual, values are recorded during maintenance and start up activities. Turbidity NTU values maintained at or below 0.10 NTU 99% of the time.

Table 3: Summary of additional testing and sampling carried out in accordance with the requirement of an approval, order or other legal instrument.

Date of Legal Instrument Issued	Parameter	Date Sampled	Result	Unit of Measure
December 28, 2020 via Municipal Drinking Water License	Total Suspended Solids	Weekly	12.6	mg/L

Table 4: Summary of Inorganic parameters tested during this reporting period or the most recent sample results

Parameter	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Number of Exceedances	
				MAC	½ MAC
Antimony: Sb (µg/L) - TW1	2021/01/18	<MDL 0.9	6.0	No	No
Arsenic: As (µg/L) - TW1	2021/01/18	<MDL 0.2	10.0	No	No
Barium: Ba (µg/L) - TW1	2021/01/18	21.7	1000.0	No	No
Boron: B (µg/L) - TW1	2021/01/18	12	5000.0	No	No
Cadmium: Cd (µg/L) - TW1	2021/01/18	0.007	5.0	No	No
Chromium: Cr (µg/L) - TW1	2021/01/18	0.42	50.0	No	No
Mercury: Hg (µg/L) - TW1	2021/01/18	<MDL 0.01	1.0	No	No
Selenium: Se (µg/L) - TW1	2021/01/18	0.09	50.0	No	No
Uranium: U (µg/L) - TW1	2021/01/18	0.013	20.0	No	No
Fluoride (mg/L) - TW1	2021/01/18	<MDL 0.06	1.5	No	No
Nitrite (mg/L) - TW1	2021/01/18	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW1	2021/04/12	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW1	2021/07/19	<MDL 0.003	1.0	No	No

Parameter	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Number of Exceedances	
				MAC	½ MAC
Nitrite (mg/L) - TW1	2021/10/18	<MDL 0.003	1.0	No	No
Nitrate (mg/L) - TW1	2021/01/18	0.076	10.0	No	No
Nitrate (mg/L) - TW1	2021/04/12	0.116	10.0	No	No
Nitrate (mg/L) - TW1	2021/07/19	0.025	10.0	No	No
Nitrate (mg/L) - TW1	2021/10/14	0.035	10.0	No	No
Sodium: Na (mg/L) - TW1	2021/01/18	18.7	20*	No	Yes

Note: MDL = Minimum Detection Limit

*There is no "MAC" for Sodium. The aesthetic objective 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.

Table 5: Summary of lead testing under Schedule 15.1 during this reporting period

Location Type	Number of Samples	Range of Lead Results		MAC	Number of Exceedances
		Minimum	Maximum		
Lead – Plumbing (µg/L)	Not Applicable - Relief from all Plumbing Requirements*				
Lead – Distribution** (µg/L)	Not Applicable for the Reporting Period.				

Note: The Alkalinity results for 2021 ranged from 28 to 38 mg/L as CaCO₃.

*This system qualifies for the plumbing exemption as per O. Regulation 170/03 Schedule 15.1-5 (9) (10).

** Distribution lead samples are taken every 36 months. The next set of distribution lead sampling is scheduled for 2022.

Table 6: Summary of Organic parameters sampled during this reporting period or the most recent sample results

Parameter	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Number of Exceedances	
				MAC	½ MAC
Alachlor (µg/L) - TW1	2021/01/18	<MDL 0.02	5.0	No	No
Atrazine + N-dealkylated metabolites (µg/L) - TW1	2021/01/18	<MDL 0.01	5.0	No	No
Azinphos-methyl (µg/L) - TW1	2021/01/18	<MDL 0.05	20.0	No	No
Benzene (µg/L) - TW1	2021/01/18	<MDL 0.32	1.0	No	No
Benzo(a)pyrene (µg/L) - TW1	2021/01/18	<MDL 0.004	0.01	No	No
Bromoxynil (µg/L) - TW1	2021/01/18	<MDL 0.33	5.0	No	No
Carbaryl (µg/L) - TW1	2021/01/18	<MDL 0.05	90.0	No	No
Carbofuran (µg/L) - TW1	2021/01/18	<MDL 0.01	90.0	No	No
Carbon Tetrachloride (µg/L) - TW1	2021/01/18	<MDL 0.17	2.0	No	No
Chlorpyrifos (µg/L) - TW1	2021/01/18	<MDL 0.02	90.0	No	No
Diazinon (µg/L) - TW1	2021/01/18	<MDL 0.02	20.0	No	No
Dicamba (µg/L) - TW1	2021/01/18	<MDL 0.2	120.0	No	No
1,2-Dichlorobenzene (µg/L) - TW1	2021/01/18	<MDL 0.41	200.0	No	No
1,4-Dichlorobenzene (µg/L) - TW1	2021/01/18	<MDL 0.36	5.0	No	No
1,2-Dichloroethane (µg/L) - TW1	2021/01/18	<MDL 0.35	5.0	No	No
1,1-Dichloroethylene (µg/L) - TW1	2021/01/18	<MDL 0.33	14.0	No	No

Parameter	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Number of Exceedances	
				MAC	½ MAC
Dichloromethane (Methylene Chloride) (µg/L) - TW1	2021/01/18	<MDL 0.35	50.0	No	No
2,4-Dichlorophenol (µg/L) - TW1	2021/01/18	<MDL 0.15	900.0	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (µg/L) - TW1	2021/01/18	<MDL 0.19	100.0	No	No
Diclofop-methyl (µg/L) - TW1	2021/01/18	<MDL 0.4	9.0	No	No
Dimethoate (µg/L) - TW1	2021/01/18	<MDL 0.06	20.0	No	No
Diquat (µg/L) - TW1	2021/01/18	<MDL 1.0	70.0	No	No
Diuron (µg/L) - TW1	2021/01/18	<MDL 0.03	150.0	No	No
Glyphosate (µg/L) - TW1	2021/01/18	<MDL 1.0	280.0	No	No
Malathion (µg/L) - TW1	2021/01/18	<MDL 0.02	190.0	No	No
Metolachlor (µg/L) - TW1	2021/01/18	<MDL 0.01	50.0	No	No
Metribuzin (µg/L) - TW1	2021/01/18	<MDL 0.02	80.0	No	No
Monochlorobenzene (Chlorobenzene) (µg/L) - TW1	2021/01/18	<MDL 0.3	80.0	No	No
Paraquat (µg/L) - TW1	2021/01/18	<MDL 1.0	10.0	No	No
PCB (µg/L) - TW1	2021/01/18	<MDL 0.04	3.0	No	No
Pentachlorophenol (µg/L) - TW1	2021/01/18	<MDL 0.15	60.0	No	No
Phorate (µg/L) - TW1	2021/01/18	<MDL 0.01	2.0	No	No
Picloram (µg/L) - TW1	2021/01/18	<MDL 1.0	190.0	No	No
Prometryne (µg/L) - TW1	2021/01/18	<MDL 0.03	1.0	No	No
Simazine (µg/L) - TW1	2021/01/18	<MDL 0.01	10.0	No	No
Terbufos (µg/L) - TW1	2021/01/18	<MDL 0.01	1.0	No	No
Tetrachloroethylene (µg/L) - TW1	2021/01/18	<MDL 0.35	10.0	No	No
2,3,4,6-Tetrachlorophenol (µg/L) - TW1	2021/01/18	<MDL 0.2	100.0	No	No
Triallate (µg/L) - TW1	2021/01/18	<MDL 0.01	230.0	No	No
Trichloroethylene (µg/L) - TW1	2021/01/18	<MDL 0.44	5.0	No	No
2,4,6-Trichlorophenol (µg/L) - TW1	2021/01/18	<MDL 0.25	5.0	No	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (µg/L) - TW1	2021/01/18	<MDL 0.12	100.0	No	No
Trifluralin (µg/L) - TW1	2021/01/18	<MDL 0.02	45.0	No	No
Vinyl Chloride (µg/L) - TW1	2021/01/18	<MDL 0.17	1.0	No	No
Trihalomethane: Total Annual Average (µg/L) - DW	4 Quarters of 2021	67	100.00	No	Yes
Haloacetic Acid: Total Annual Average (µg/L) - DW	4 Quarters of 2021	54.1	80.00	No	Yes

Note: MDL = Minimum Detection Limit



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

Parameter	Result Value	Unit of Measure	Date of Sample
Trihalomethane: Total Annual Average ($\mu\text{g/L}$) - DW	67	$\mu\text{g/L}$	4 Quarters of 2021
Haloacetic Acid: Total Annual Average ($\mu\text{g/L}$) - DW	54.1	$\mu\text{g/L}$	4 Quarters of 2021

ANNUAL REPORT

ONTARIO REGULATION 170/03
SECTION 11

TAY AREA DRINKING WATER SYSTEM



**FOR THE PERIOD:
JANUARY 1, 2021 – DECEMBER 31, 2021**

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





Ontario Drinking-Water Systems Regulation O. Reg. 170/03

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
Period being reported:	January 1, 2021 to December 31, 2021

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

No

Is your annual report available to the public at no charge on a web site on the Internet?

Yes

Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.

Summary Report is available for inspection at the Township of Tay Municipal Office at 450 Park Street, Victoria Harbour, Tay Township, ON, L0K 2A0 or on the following website: <https://www.tay.ca/en/>

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

Drinking Water System Name	Drinking Water System Number
Not Applicable	Not Applicable

Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water?

Not Applicable

Indicate how you notified system users that your annual report is available, and is free of charge.

- Public access/notice via the web
- Public access/notice via Government Office
- Public access/notice via a newspaper
- Public access/notice via Public Request
- Public access/notice via a Public Library
- Public access/notice via other method

Description of Drinking-Water System:

The Tay Area Drinking Water System (otherwise known as the Victoria Harbour Drinking Water System) is located at 45 Lighthouse Crescent in Victoria Harbour and supplies drinking water to an estimated population of 8,000 persons. Water is supplied through Hogg's Bay within the Georgian Bay, utilizing 3 Booster Stations and 3 Stand Pipes to supply the population. The Tay Area treatment system utilizes Microza and Ecodyne filter systems, UV disinfection and chlorine dosing to treat the source water. Treated water is then distributed throughout the area with the help of the Booster Stations. The Tay Area Drinking Water System is classified as a Class III Water Treatment facility.

The distribution system services approximately 2,830 private residences, along with a combined 119 institutional, commercial, and industrial locations. The distribution system is comprised of many various materials including ductile iron, cast iron and polyvinyl chloride. The system consists of 77,966 meters of distribution watermain, 336 hydrants and 400 isolation valves. The Tay Area Drinking Water System is classified as a Class II Water Distribution Subsystem.

List of water treatment chemicals used during the reporting period:

- Sodium Hypochlorite 12% Solution NSF, Primary Disinfection
- Stern PAC Aluminum Chloride Hydroxide Sulfate 30-35%
- Sodium Hydroxide 25% (Membrane Cleaning)
- Citric Acid 50% (Membrane Cleaning)

Significant expenses incurred to:

- Install required equipment
- Purchase required equipment
- Repair required equipment
- Replace required equipment

Description of significant expenses incurred:

1. Phase 2 Upgrades – Ecodyne removal
2. Phase 2 Upgrades – New Pall Rack 3 Installation
3. Phase 2 Upgrades – GAC System Installation
4. Phase 2 Upgrades – Bisulphite De-chlorination System Installed
2. Chlorine Analyzer Replacement and Installation
3. Port McNicoll Standpipe Inspection
4. Chlorine Storage Wall and Ventilation System Installed

Details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre:

Incident Date (yyyy/mm/dd)	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date (yyyy/mm/dd)
2021/04/30	Free Chlorine Residual	0.09	mg/L	AWQI # 153960 - Disinfection was restored as soon as reasonably possible, pipes and mains were flushed to restore chlorine residual in the distribution system.	2021/04/30
2021/08/16	Free Chlorine Residual	0.02	mg/L	AWQI # 155084 - Disinfection was restored as soon as reasonably possible, pipes and mains were flushed to restore chlorine residual in the distribution system.	2021/08/16

Table 1: Microbiological testing done under the Schedule 11 of Regulation 170/03 during this reporting period.

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 - RW	52	0	20	0	1920	N/A	N/A	N/A
Treated - TW	52	0	0	0	0	52	0	<10
Distribution - DW	312	0	0	0	0	312	0	37

Table 2: Operational testing done under Schedule 7 of Regulation 170/03 during the period covered by this Annual Report.

Location & Test	Number of Samples	Range of Results	
		Minimum	Maximum
Turbidity, Treated Rack 1 RW1 (Continuous) [NTU]*	8760	0.000	2.000
Turbidity, Treated Rack 2 RW2 (Continuous) [NTU]*	8760	0.012	1.999
Turbidity, Treated Rack 4 RW4 (Continuous) [NTU]*	8760	0.000	1.999
Free Chlorine Residual, Treated TW1 (Continuous) [mg/L]**	8760	0.00	2.02
Free Chlorine Residual, Distribution (Continuous) [mg/L]***	8760	0.51	1.41
Free Chlorine Residual, Distribution (Grab) [mg/L]	312	0.02+	1.72

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

*Turbidity values are not actual, values are recorded during maintenance and start up activities. Turbidity NTU values maintained at or below 0.10 NTU 99% of the time.

** Minimum and Maximum chlorine residuals values are not actual, values were recorded during maintenance activities. Adequate chlorine residuals maintained at all times.

***Continuous Distribution Monitoring through the Booster Station Analyzers

+Please refer to details on the notices submitted in accordance with subsection 18(1).

Table 3: Summary of additional testing and sampling carried out in accordance with the requirement of an approval, order or other legal instrument.

Date of Legal Instrument Issued	Parameter	Date Sampled	Result	Unit of Measure
Not Applicable				

Table 4: Summary of Inorganic parameters tested during this reporting period or the most recent sample results

Parameter	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Number of Exceedances	
				MAC	½ MAC
Antimony: Sb (µg/L) - TW1	2021/01/18	<MDL 0.9	6.0	No	No
Arsenic: As (µg/L) - TW1	2021/01/18	<MDL 0.2	10.0	No	No
Barium: Ba (µg/L) - TW1	2021/01/18	23.7	1000.0	No	No
Boron: B (µg/L) - TW1	2021/01/18	12	5000.0	No	No
Cadmium: Cd (µg/L) - TW1	2021/01/18	<MDL 0.003	5.0	No	No
Chromium: Cr (µg/L) - TW1	2021/01/18	0.35	50.0	No	No
Mercury: Hg (µg/L) - TW1	2021/01/18	<MDL 0.01	1.0	No	No
Selenium: Se (µg/L) - TW1	2021/01/18	0.11	50.0	No	No
Uranium: U (µg/L) - TW1	2021/01/18	0.007	20.0	No	No
Fluoride (mg/L) - TW1	2021/01/18	<MDL 0.06	1.5	No	No
Nitrite (mg/L) - TW1	2021/01/18	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW1	2021/04/12	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW1	2021/07/19	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW1	2021/10/18	<MDL 0.003	1.0	No	No
Nitrate (mg/L) - TW1	2021/01/18	0.146	10.0	No	No
Nitrate (mg/L) - TW1	2021/04/12	0.219	10.0	No	No
Nitrate (mg/L) - TW1	2021/07/19	0.029	10.0	No	No
Nitrate (mg/L) - TW1	2021/10/14	0.019	10.0	No	No
Sodium: Na (mg/L) - TW1	2021/01/18	15.4	20*	No	Yes

Note: MDL = Minimum Detection Limit

*There is no "MAC" for Sodium. The aesthetic objective 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.

Table 5: Summary of lead testing under Schedule 15.1 during this reporting period

Location Type	Number of Samples	Range of Lead Results		MAC	Number of Exceedances
		Minimum	Maximum		
Lead – Plumbing (µg/L)	Not Applicable - Relief from all Plumbing Requirements*				
Lead – Distribution** (µg/L)	Not Applicable for the Reporting Period.**				

Note: The Alkalinity results for 2021 ranged from 54 to 99 mg/L as CaCO₃, pH ranged from 6.79 – 7.04.

*This system qualifies for the plumbing exemption as per O. Regulation 170/03 Schedule 15.1-5 (9) (10).

** Distribution lead samples are taken every 36 months. The next set of distribution lead sampling is scheduled for 2022.

Table 6: Summary of Organic parameters sampled during this reporting period or the most recent sample results

Parameter	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Number of Exceedances	
				MAC	½ MAC
Alachlor (µg/L) - TW1	2021/01/18	<MDL 0.02	5.0	No	No
Atrazine + N-dealkylated metabolites (µg/L) - TW1	2021/01/18	<MDL 0.01	5.0	No	No
Azinphos-methyl (µg/L) - TW1	2021/01/18	<MDL 0.05	20.0	No	No
Benzene (µg/L) - TW1	2021/01/18	<MDL 0.32	1.0	No	No
Benzo(a)pyrene (µg/L) - TW1	2021/01/18	<MDL 0.004	0.01	No	No
Bromoxynil (µg/L) - TW1	2021/01/18	<MDL 0.33	5.0	No	No
Carbaryl (µg/L) - TW1	2021/01/18	<MDL 0.05	90.0	No	No
Carbofuran (µg/L) - TW1	2021/01/18	<MDL 0.01	90.0	No	No
Carbon Tetrachloride (µg/L) - TW1	2021/01/18	<MDL 0.17	2.0	No	No
Chlorpyrifos (µg/L) - TW1	2021/01/18	<MDL 0.02	90.0	No	No
Diazinon (µg/L) - TW1	2021/01/18	<MDL 0.02	20.0	No	No
Dicamba (µg/L) - TW1	2021/01/18	<MDL 0.2	120.0	No	No
1,2-Dichlorobenzene (µg/L) - TW1	2021/01/18	<MDL 0.41	200.0	No	No
1,4-Dichlorobenzene (µg/L) - TW1	2021/01/18	<MDL 0.36	5.0	No	No
1,2-Dichloroethane (µg/L) - TW1	2021/01/18	<MDL 0.35	5.0	No	No
1,1-Dichloroethylene (µg/L) - TW1	2021/01/18	<MDL 0.33	14.0	No	No
Dichloromethane (Methylene Chloride) (µg/L) - TW1	2021/01/18	<MDL 0.35	50.0	No	No
2,4-Dichlorophenol (µg/L) - TW1	2021/01/18	<MDL 0.15	900.0	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (µg/L) - TW1	2021/01/18	<MDL 0.19	100.0	No	No
Diclofop-methyl (µg/L) - TW1	2021/01/18	<MDL 0.4	9.0	No	No
Dimethoate (µg/L) - TW1	2021/01/18	<MDL 0.06	20.0	No	No
Diquat (µg/L) - TW1	2021/01/18	<MDL 1.0	70.0	No	No
Diuron (µg/L) - TW1	2021/01/18	<MDL 0.03	150.0	No	No
Glyphosate (µg/L) - TW1	2021/01/18	<MDL 1.0	280.0	No	No
Malathion (µg/L) - TW1	2021/01/18	<MDL 0.02	190.0	No	No
Metolachlor (µg/L) - TW1	2021/01/18	<MDL 0.01	50.0	No	No
Metribuzin (µg/L) - TW1	2021/01/18	<MDL 0.02	80.0	No	No
Monochlorobenzene (Chlorobenzene) (µg/L) - TW1	2021/01/18	<MDL 0.3	80.0	No	No
Paraquat (µg/L) - TW1	2021/01/18	<MDL 1.0	10.0	No	No
PCB (µg/L) - TW1	2021/01/18	<MDL 0.04	3.0	No	No
Pentachlorophenol (µg/L) - TW1	2021/01/18	<MDL 0.15	60.0	No	No
Phorate (µg/L) - TW1	2021/01/18	<MDL 0.01	2.0	No	No
Picloram (µg/L) - TW1	2021/01/18	<MDL 1.0	190.0	No	No
Prometryne (µg/L) - TW1	2021/01/18	<MDL 0.03	1.0	No	No
Simazine (µg/L) - TW1	2021/01/18	<MDL 0.01	10.0	No	No
Terbufos (µg/L) - TW1	2021/01/18	<MDL 0.01	1.0	No	No

Parameter	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Number of Exceedances	
				MAC	½ MAC
Tetrachloroethylene (µg/L) - TW1	2021/01/18	<MDL 0.35	10.0	No	No
2,3,4,6-Tetrachlorophenol (µg/L) - TW1	2021/01/18	<MDL 0.2	100.0	No	No
Triallate (µg/L) - TW1	2021/01/18	<MDL 0.01	230.0	No	No
Trichloroethylene (µg/L) - TW1	2021/01/18	<MDL 0.44	5.0	No	No
2,4,6-Trichlorophenol (µg/L) - TW1	2021/01/18	<MDL 0.25	5.0	No	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (µg/L) - TW1	2021/01/18	<MDL 0.12	100.0	No	No
Trifluralin (µg/L) - TW1	2021/01/18	<MDL 0.02	45.0	No	No
Vinyl Chloride (µg/L) - TW1	2021/01/18	<MDL 0.17	1.0	No	No
Trihalomethane: Total Annual Average (µg/L) - DW	4 Quarters of 2021	88	100.00	No	Yes
Haloacetic Acid: Total Annual Average (µg/L) - DW	4 Quarters of 2021	48	80.00	No	Yes

Note: MDL = Minimum Detection Limit

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

Parameter	Result Value	Unit of Measure	Date of Sample
Trihalomethane: Total Annual Average (µg/L) - DW	88	µg/L	4 Quarters of 2021
Haloacetic Acid: Total Annual Average (µg/L) - DW	48	µg/L	4 Quarters of 2021

SUMMARY REPORT

ONTARIO REGULATION 170/03
SECTION 22

ROPE DRINKING WATER SYSTEM



**FOR THE PERIOD:
JANUARY 1, 2021 – DECEMBER 31, 2021**

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



SCHEDULE 22
SUMMARY REPORTS FOR MUNICIPALITIES

Municipal: Large Residential
Small Residential

Application

22-1. This Schedule applies to the following drinking water systems:

1. Large municipal residential systems.
2. Small municipal residential systems.

Report

22-2. (1) The owner of a drinking water system shall ensure that, not later than March 31 of each year after 2003, a report is prepared in accordance with subsections (2) and (3) for the preceding calendar year and is given to,

- (a) in the case of a drinking water system owned by a municipality, the members of the municipal council;
- (b) in the case of a drinking water system owned by a municipal service board established under section 195 of the *Municipal Act, 2001*, the members of the municipal service board; or
- (c) in the case of a drinking water system owned by a corporation, the board of directors of the corporation.

(2) The report must,

- (a) list the requirements of the Act, the regulations, the system's approval, drinking water works permit, municipal drinking water licence, and any orders applicable to the system that were not met at any time during the period covered by the report; and
- (b) for each requirement referred to in clause (a) that was not met, specify the duration of the failure and the measures that were taken to correct the failure.

(3) The report must also include the following information for the purpose of enabling the owner of the system to assess the capability of the system to meet existing and planned uses of the system:

1. A summary of the quantities and flow rates of the water supplied during the period covered by the report, including monthly average and maximum daily flows.
2. A comparison of the summary referred to in paragraph 1 to the rated capacity and flow rates approved in the system's approval, drinking water works permit or municipal drinking water licence, or if the system is receiving all of its water from another system under an agreement pursuant to subsection 5 (4), to the flow rates specified in the written agreement.

(4) If a report is prepared under subsection (1) for a system that supplies water to a municipality under the terms of a contract, the owner of the system shall give a copy of the report to the municipality by March 31.

(5) Revoked: O. Reg. 253/05, s. 18.

Ontario Regulation 170/03: Drinking Water Systems

Schedule 22 Summary Report

JANUARY 01, 2021 – DECEMBER 31, 2021

DRINKING-WATER SYSTEM NAME:	Rope Drinking Water System
DRINKING-WATER SYSTEM NUMBER:	220011323
DRINKING-WATER SYSTEM CATEGORY:	SMALL MUNICIPAL RESIDENTIAL
MUNICIPAL DRINKING WATER LICENCE #:	129-101 (issued on December 28, 2020)
DRINKING-WATER WORKS PERMIT #:	129-201 (issued on December 28, 2020)
PERMIT TO TAKE WATER #:	2756-8UKPGS

REPORT

This report is a summary of water quantity data for the Rope Drinking Water System (DWS) in the Township of Tay written in accordance with Schedule 22 of Ontario's Drinking Water Systems Regulation for the reporting period of January 1, 2021 to December 31, 2021. The Rope DWS is categorized as a Large Municipal Residential Drinking Water System. This report was prepared by the Ontario Clean Water Agency on behalf of the Corporation of the Township of Tay.

ISSUES OF NON-COMPLIANCE

The following outlines any instances when the DWS failed to meet the requirements of the Act, Regulations, System Approval(s) and any Order during this reporting period and the measures taken to correct each failure.

Not Applicable for the Reporting Period
--

Please refer to the Annual Report (Section 11) for the Rope DWS for information regarding Adverse Water Quality Incident(s) that may have occurred during the reporting period.

SYSTEM PERFORMANCE

The following tables (Table 1 and Table 2) summarize the quantities and flow rates of the raw water taken and treated water supplied during the period covered by this report, including monthly average and maximum day flows, and daily instantaneous peak flow rates, as well as a comparison with the allowable maximum daily volume and flow rates for the system.

Ontario Regulation 170/03: Drinking Water Systems

Schedule 22 Summary Report

JANUARY 01, 2021 – DECEMBER 31, 2021

Table 1: Rope DWS – Raw Water (RW) Summary for Reporting Period

Description	Raw Water Intake
Maximum Daily Volume(m ³ /day)*	273.8
Maximum Flow Rates (L/s)	17.1
Average Day Flow (m ³ /day)	33.9
% of Maximum Daily Volume	12.4
Maximum Day Flow (m ³ /day)	85.3
% of Maximum Daily Volume	31.2
Average Daily Flow Rate	1.2
% of Approved Flow Rate	7.0
Daily Instantaneous Peak Flow Rate (L/s)	4.6
% of Approved Flow Rate	27.0
Total Annual Flow (m ³)	12,371

*As specified in the Permit to Take Water, where the "maximum daily volume" is expressed as the "Total Taking" in cubic metres per day.

Ontario Regulation 170/03: Drinking Water Systems

Schedule 22 Summary Report

JANUARY 01, 2021 – DECEMBER 31, 2021

Table 2: Rope DWS – Treated Water (TW) Summary for Reporting Period

Description	Treated Water Production
Maximum Daily Volume(m ³ /day)*	216.0
Maximum Flow Rates (Rated Capacity) (L/s)	2.5
Average Day Flow (m ³ /day)	26.0
% of Maximum Daily Volume	12.0
Maximum Day Flow (m ³ /day)	60.8
% of Maximum Daily Volume	28.1
Average Daily Flow Rate	1.1
% of Approved Flow Rate	44.0
Daily Instantaneous Peak Flow Rate (L/s)+	10.6
% of Approved Flow Rate	424
Total Annual Flow (m ³)	9,560

*As specified in the Permit to Take Water, where the “maximum daily volume” is expressed as the “Total Taking” in cubic metres per day.

+Exceedances are due to power bumps, well pump start-ups, and their instantaneous flow rate measurements.

A review of Rope DWS flow information for the period of January 1, 2021 to December 31, 2021 indicates that there were no exceedances of the MDWL Rated Capacity at the Pumphouse, which also means there were no exceedances of the maximum daily volume as per the PTTW.

Ontario Regulation 170/03: Drinking Water Systems

Schedule 22 Summary Report

JANUARY 01, 2021 – DECEMBER 31, 2021

The following tables (Table 3 and Table 4) outline a more detailed flow summary for the Raw and Treated Water Flows

Table 3: Rope DWS – Facility Flow Summary for Raw Water Intake (RW)

Month	Monthly Flow Total (m ³ /month)	Daily Flow Average (m ³ /day)	Daily Flow Maximum (m ³ /day)	Daily Average Flow Rate (L/sec)	Daily Peak Flow Rate (L/sec)	Number of Days of Water Taking
Jan	901.7	29.1	54.3	0.7	3.6	31
Feb	910.2	31.4	58.6	1.3	4.0	28
Mar	873.1	28.2	32.5	1.1	4.6	31
Apr	971.4	32.4	40.6	1.2	4.5	30
May	1,434.1	46.3	69.4	1.2	2.6	31
Jun	1,517.5	50.6	85.3	1.3	4.0	30
Jul	1,224.0	39.5	56.5	1.6	2.2	31
Aug	1,312.3	42.3	61.4	1.6	2.5	31
Sep	538.6	19.2	36.9	1.4	2.8	30
Oct	1,001.5	32.3	44.4	1.5	2.4	31
Nov	843.6	28.1	38.8	0.7	1.2	30
Dec	843.1	27.2	52.7	0.7	4.6	31
Total	12371.1	-	-	-	-	365
Avg.	-	33.9	-	1.2	-	-
Max.	-	-	85.3	-	4.6	-

Table 4: Rope DWS – Facility Flow Summary for Treated Water (TW)

Month	Monthly Flow Total (m ³ /month)	Daily Flow Average (m ³ /day)	Daily Flow Maximum (m ³ /day)	Daily Average Flow Rate (L/sec)	Daily Peak Flow Rate (L/sec)	Number of Days of Water Taking
Jan	575.7	18.6	23.7	1.0	4.6	31
Feb	568.8	19.6	27.6	1.0	8.4	28
Mar	642.2	20.7	23.8	1.0	7.6	31
Apr	722.5	24.1	31.0	1.1	5.4	30
May	1,058.3	34.1	51.8	1.3	5.7	31
Jun	1,177.6	39.3	60.8	1.4	7.0	30
Jul	970.9	31.3	47.5	1.2	8.0	31
Aug	1,042.9	33.6	50.5	1.2	5.8	31
Sep	794.8	26.5	39.0	1.1	5.3	30
Oct	721.7	23.3	28.9	1.0	10.6	31
Nov	622.3	20.1	28.1	1.0	4.7	30
Dec	662.0	21.4	41.8	1.0	7.6	31
Total	9559.7	-	-	-	-	365
Avg.	-	26.0	-	1.1	-	-
Max.	-	-	60.8	-	10.6	-

Ontario Regulation 170/03: Drinking Water Systems

Schedule 22 Summary Report

JANUARY 01, 2021 – DECEMBER 31, 2021

For additional information on the treated water flows from the Rope DWS, please refer to the following graphical representations:

- Graph 1: Treated Water Flows for 2021

Ontario Regulation 170/03: Drinking Water Systems

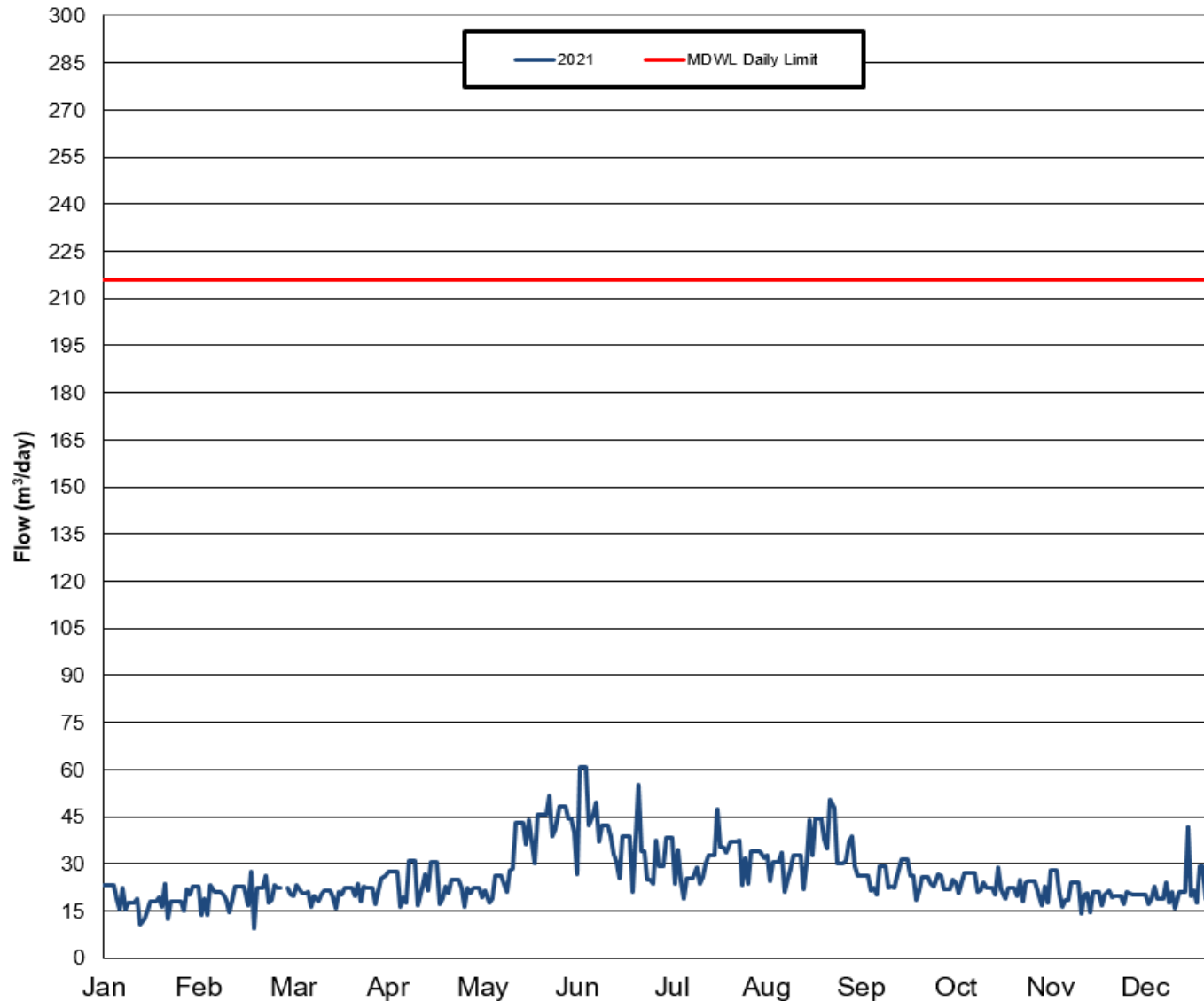
Schedule 22 Summary Report

JANUARY 01, 2021 – DECEMBER 31, 2021

Graph 1: Treated Water Flows for Reporting Period



Rope DWS - Total Treated Flows (2021)



SUMMARY REPORT

ONTARIO REGULATION 170/03
SECTION 22

TAY AREA DRINKING WATER SYSTEM



**FOR THE PERIOD:
JANUARY 1, 2021 – DECEMBER 31, 2021**

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



SCHEDULE 22
SUMMARY REPORTS FOR MUNICIPALITIES

Municipal: Large Residential
Small Residential

Application

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2. Small municipal residential systems.

Report

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- (a) in the case of a drinking water system owned by a municipality, the members of the municipal council;
- (b) in the case of a drinking water system owned by a municipal service board established under section 195 of the *Municipal Act, 2001*, the members of the municipal service board; or
- (c) in the case of a drinking water system owned by a corporation, the board of directors of the corporation.

(2) The report must,

- (a) list the requirements of the Act, the regulations, the system's approval, drinking water works permit, municipal drinking water licence, and any orders applicable to the system that were not met at any time during the period covered by the report; and
- (b) for each requirement referred to in clause (a) that was not met, specify the duration of the failure and the measures that were taken to correct the failure.

(3) The report must also include the following information for the purpose of enabling the owner of the system to assess the capability of the system to meet existing and planned uses of the system:

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2. A comparison of the summary referred to in paragraph 1 to the rated capacity and flow rates approved in the system's approval, drinking water works permit or municipal drinking water licence, or if the system is receiving all of its water from another system under an agreement pursuant to subsection 5 (4), to the flow rates specified in the written agreement.

(4) If a report is prepared under subsection (1) for a system that supplies water to a municipality under the terms of a contract, the owner of the system shall give a copy of the report to the municipality by March 31.

(5) Revoked: O. Reg. 253/05, s. 18.

Ontario Regulation 170/03: Drinking Water Systems

Schedule 22 Summary Report

JANUARY 01, 2021 – DECEMBER 31, 2021

DRINKING-WATER SYSTEM NAME:	Tay Area Drinking Water System
DRINKING-WATER SYSTEM NUMBER:	220001076
DRINKING-WATER SYSTEM CATEGORY:	LARGE MUNICIPAL RESIDENTIAL
MUNICIPAL DRINKING WATER LICENCE #:	129-102 (issued on December 20, 2020)
DRINKING-WATER WORKS PERMIT #:	129-202 (issued on December 20, 2020)
PERMIT TO TAKE WATER #:	4221-9QDHS4

REPORT

This report is a summary of water quantity data for the Tay Area Drinking Water System (DWS) in the Township of Tay written in accordance with Schedule 22 of Ontario's Drinking Water Systems Regulation for the reporting period of January 1, 2021 to December 31, 2021. The Tay Area DWS is categorized as a Large Municipal Residential Drinking Water System. This report was prepared by the Ontario Clean Water Agency on behalf of the Corporation of the Township of Tay.

ISSUES OF NON-COMPLIANCE

The following outlines any instances when the DWS failed to meet the requirements of the Act, Regulations, System Approval(s) and any Order during this reporting period and the measures taken to correct each failure.

1. August 16, 2021 – Low Free Chlorine Residual

Ontario Regulation 170/03 Requirement:

Schedule 1 – Treatment Equipment, 1-2 General Obligations

Incident Description: On August 16, 2021, during regular rounds, a free chlorine residual was measured in the distribution system of 0.02 mg/L, below the recommended threshold of 0.05mg/L. AWQI # 155084 was issued.

Corrective Actions:

- Samples were collected at the time of the incident – no contamination detected
- Mains in the area were immediately flushed to restore free chlorine residual to acceptable levels
- The section of watermain to which the low chlorine residual was discovered is planned for relining in 2023
- New SOPs were created and made available to Operations staff for reference for any future incidents

Status: Ongoing

Please refer to the Annual Report (Section 11) for the Tay Area DWS for information regarding Adverse Water Quality Incident(s) that may have occurred during the reporting period.

SYSTEM PERFORMANCE

The following tables (Table 1 and Table 2) summarize the quantities and flow rates of the raw water taken and treated water supplied during the period covered by this report, including monthly average and maximum day flows, and daily instantaneous peak flow rates, as well as a comparison with the allowable maximum daily volume and flow rates for the system.

Ontario Regulation 170/03: Drinking Water Systems

Schedule 22 Summary Report

JANUARY 01, 2021 – DECEMBER 31, 2021

Table 1: Tay Area DWS – Raw Water (RW) Summary for Reporting Period

Description	Raw Water Intake
Maximum Daily Volume(m ³ /day)*	10,627.2
Maximum Flow Rates (L/s)**	442.8
Average Day Flow (m ³ /day)	2,739.3
% of Maximum Daily Volume	25.8
Maximum Day Flow (m ³ /day)	6,148.0
% of Maximum Daily Volume	57.9
Average Daily Flow Rate	56.9
% of Approved Flow Rate	12.8
Daily Instantaneous Peak Flow Rate (L/s)	100.0
% of Approved Flow Rate	22.6
Total Annual Flow (m ³)	1,000,952

*As specified in the Permit to Take Water, where the “maximum daily volume” is expressed as the “Total Taking” in cubic metres per day.

Table 2: Tay Area DWS – Treated Water (TW) Summary for Reporting Period

Description	Treated Water Production
Maximum Daily Volume(m ³ /day)*	10,065.0
Average Day Flow (m ³ /day)	2,459.7
% of Maximum Daily Volume	24.4
Maximum Day Flow (m ³ /day)	5,569.0
% of Maximum Daily Volume	55.3
Total Annual Flow (m ³)	898,902.0

*As specified in the Permit to Take Water, where the “maximum daily volume” is expressed as the “Total Taking” in cubic metres per day.

Ontario Regulation 170/03: Drinking Water Systems

Schedule 22 Summary Report

JANUARY 01, 2021 – DECEMBER 31, 2021

A review of Tay Area DWS flow information for the period of January 1, 2021 to December 31, 2021 indicates that there were no exceedances of the MDWL Rated Capacity at the Pumphouse, which also means there were no exceedances of the maximum daily volume as per the PTTW.

The following tables (Table 3 and Table 4) outline a more detailed flow summary for the Raw and Treated Water Flows

Table 3: Tay Area DWS – Facility Flow Summary for Raw Water Intake (RW)

Month	Monthly Flow Total (m ³ /month)	Daily Flow Average (m ³ /day)	Daily Flow Maximum (m ³ /day)	Daily Average Flow Rate (L/sec)	Daily Peak Flow Rate (L/sec)	Number of Days of Water Taking
Jan	65,579	2,115	2,301	57	100	31
Feb	60,913	2,175	2,504	57	100	28
Mar	65,891	2,126	2,585	56	100	31
Apr	76,739	2,558	3,195	55	100	30
May	111,370	3,593	5,621	53	100	31
Jun	112,398	3,747	6,148	60	100	30
Jul	92,135	2,972	3,888	61	100	31
Aug	116,407	3,755	5,449	58	100	31
Sep	88,573	2,952	4,045	56	100	30
Oct	75,158	2,424	3,131	57	100	31
Nov	68,184	2,273	5,283	57	100	30
Dec	67,605	2,181	2,712	55	100	31
Total	1,000,952	-	-	-	-	365
Avg.	-	2,739.3	-	57	-	-
Max.	-	-	6,148.0	-	100	-

Ontario Regulation 170/03: Drinking Water Systems

Schedule 22 Summary Report

JANUARY 01, 2021 – DECEMBER 31, 2021

Table 4: Tay Area DWS – Facility Flow Summary for Treated Water (TW)

Month	Monthly Flow Total (m ³ /month)	Daily Flow Average (m ³ /day)	Daily Flow Maximum (m ³ /day)	Daily Average Flow Rate (L/sec)	Daily Peak Flow Rate (L/sec)	Number of Days of Water Taking
Jan	59,026	1,904	2,070	58	71	31
Feb	54,468	1,945	2,264	58	111	28
Mar	59,154	1,908	2,298	58	62	31
Apr	68,548	2,285	2,889	58	109	30
May	100,194	3,232	5,027	58	121	31
Jun	101,589	3,386	5,569	58	119	30
Jul	83,967	2,709	3,634	58	114	31
Aug	105,268	3,396	4,923	57	116	31
Sep	79,943	2,665	3,484	56	157	30
Oct	67,836	2,188	2,812	56	114	31
Nov	58,504	1,950	2,315	56	114	30
Dec	60,405	1,949	2,225	56	62	31
Total	898,902	-	-	-	-	365
Avg.	-	2,460	-	57	-	-
Max.	-	-	5,569	-	157	-

For additional information on the treated water flows from the Tay Area DWS, please refer to the following graphical representations:

- Graph 1: Treated Water Flows for 2021

Ontario Regulation 170/03: Drinking Water Systems

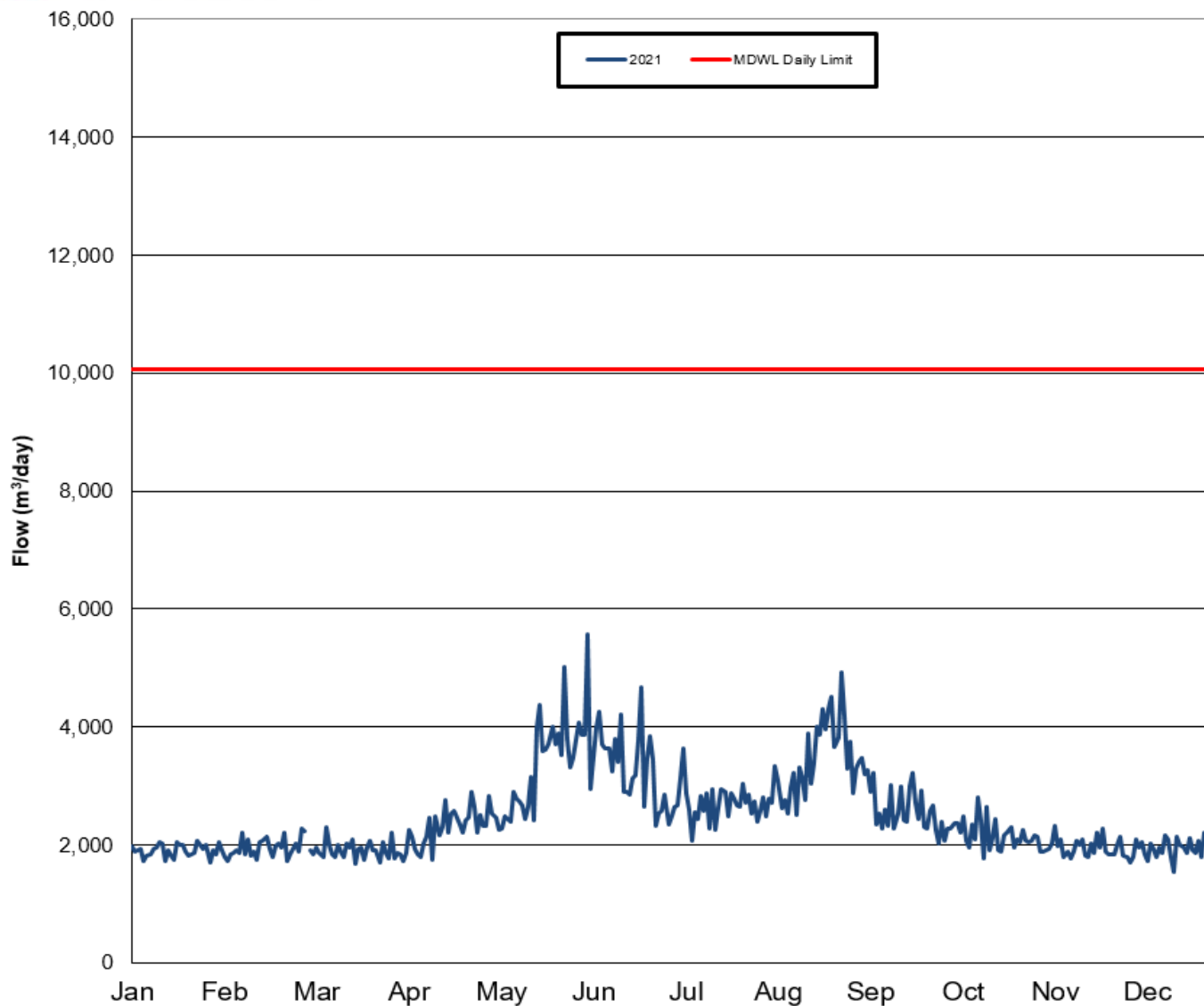
Schedule 22 Summary Report

JANUARY 01, 2021 – DECEMBER 31, 2021

Graph 1: Treated Water Flows for Reporting Period



Tay Area DWS - Total Treated Flows (2021)



The Corporation of the Township of Tay
Operational Services Committee Meeting Minutes

Wednesday, February 9, 2022, 1:30 p.m.
Remote Video and Telephone Conference

Present: Mayor Walker
Deputy Mayor La Chapelle
Councillor Bumstead
Councillor Warnock
Councillor Norris

Staff Present: L. Barron – Chief Administrative Officer
D. O’Shea – General Manager Corporate Services
S. Aymer – General Manager Protective and Development Services
S. Berriault – General Manager Operational Services
B. Anderson – Manager Parks, Recreation and Facilities Services
J. Haourt – Manager of Roads and Fleet Services
C. Bonneville - Clerk
E. Smith – Communications Specialist

Regrets: Councillor Raymond
Councillor Talbot

1. Call to Order

Mayor Walker called the meeting to order at 1:30 p.m.

2. Adoption of the Agenda

Moved by Councillor Bumstead
Seconded by Councillor Norris

That the Operational Services Committee Meeting Agenda for February 9, 2022 be adopted as circulated.

Motion Carried.

3. Disclosure of Interest

No interests were disclosed at this time.

4. Presentations / Delegations

No presentations or delegations were received.

5. **Standing Committee Business**

Mayor Walker called on Councillor Bumstead to Chair the meeting.

5.1 **Adoption of Minutes**

5.1.1 Operational Services Committee Minutes - January 12, 2022

Moved by Councillor Norris

Seconded by Mayor Walker

That the Operational Services Committee meeting minutes of January 12, 2022 be adopted.

Motion Carried.

5.2 **Reports from Municipal Officials**

5.2.1 OS-2022-10 Manager of Roads and Fleet Services, Re: Addition of Underbody Scraper Blade to 2023 Snow Plough Truck

Moved by Councillor Norris

Seconded by Mayor Walker

That Staff Report No. OS-2022-10 regarding Addition of Underbody Scraper Blade to 2023 Plough Truck, Amendment to Contract 2021-09 be received; and

That the Council of the Township of Tay approves the addition of underbody scraper blade through tender low bid from Currie Truck Centre, in the amount of \$17,514.00 plus HST.

Motion Carried.

5.2.2 OS-2022-09 General Manager Operational Services, Re: Monthly Activity Report

Staff Report OS-2022-09 was received for information.

5.2.3 OS-2022-07 Manager of Roads and Fleet Services, Re: Monthly Activity Report

Staff Report OS-2022-07 was received for information.

5.2.4 OS-2022-08 Manager of Parks Recreation and Facility Services, Re: Monthly Activity Report

Manager of Parks, Recreation and Facility Services provided committee with an update on the operations of the outdoor rinks. He also noted that meetings with the Waubaushene Legion Board members for use of the Legion as a community space location have commenced.

Staff Report OS-2022-08 was received for information.

5.3 Other Business

No items of other business were received.

5.4 Items for Information

No items for information were received.

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

Councillor Warnock noted that she received a few requests that the Tay Rink schedule for Saturday's and Sunday's be extended to include additional time for afternoon public skating.

7. **Requests for Future Reports or Follow-up**

Committee did not consider the recommendation on future reports for follow-up.

8. **Closed Session**

No closed session meeting was held.

9. **Adjournment**

Moved by Councillor Norris

Seconded by Councillor Bumstead

That this meeting adjourn at 1:45 p.m.

Motion Carried.

Chair

Minutes Recorder



STAFF REPORT

Department: Operational Services

Meeting Chair: Councillor Jeff Bumstead

Meeting Date: March 09, 2022

Report No.: **OS-2022-17**

Report Title: **2022 Water/Sewer and Roads Capital Budget Status Update**

RECOMMENDATION:

That Staff Report No. OS-2022-17 regarding the 2022 Capital Budget for Water/Sewer and Road projects be received for information.

INTRODUCTION/BACKGROUND:

There seems to have been a backlog of capital projects with the turnover of staff over the last couple of years. In an effort to try and get a couple of the high interest projects moving forward, staff tendered for the design services for the Ninth Avenue design services. Three (3) of the 5 projects listed below have had portions of the designs completed. There are issues with two (2) of the three projects. To rectify the issues, the drawings will be updated and submitted to MECP for approval. The following documents were used to research outstanding projects, and a review of individual items with the CAO.

2021 Budget Document and Budget Information Sheets

2022 Budget Document and Budget Information Sheets

2019-2028 Long Term Plan document

PW Report PW-2020-17 by Peter Dance Dated March 11, 2020

The following is a list of projects that are to be started/completed in 2022.

Fifth Avenue watermain replacement Hayes St to Arpin Street
Hayes Street watermain replacement Fifth Ave to Fourth Ave
Athabaska Street watermain replacement Seventh Ave to Barnes Ave
Easton Avenue watermain replacement Talbot St to End of Easton
Ninth Avenue watermain and roadwork design \$50,000

ANALYSIS:

Fifth Ave watermain replacement Hayes St to Arpin Street

This project ties into the March 11, 2020 report from Peter Dance. After further discussions with the consultant, the MECP approval has not yet been submitted and must take place prior to tendering and construction starting. This pushes the start date to August or September at the earliest.

Staff will continue to move this project forward ensuring it will be shovel ready in 2023. Staff will update Council on the project but anticipate it may be ready to go to tender by fall/winter with a potential early spring 2023 construction start. Another report will be provided to Council that will include a review of the Township lands in relation to the limits of servicing required on Fifth Ave.

Hayes Street watermain replacement Fifth Ave to Fourth Ave

The section of Hayes St connects into the new watermain and sanitary sewer on Fifth Ave. As a result, this project should be part of the Fifth Ave works and will be tendered together. Similar to Fifth Ave, the project is designed but does not have ECA from the MECP. Staff will move this project forward with the Fifth Ave works.

Athabaska Street watermain replacement Seventh Ave to Barnes Ave

This project is designed and will be tendered in 2022 if economically feasible to do so.

Easton Avenue watermain replacement Talbot St to End of Easton

The original intent of this project was to reline (cure in place watermain lining) the 150mm diameter main on Easton Ave. The cure in place repair may not be the correct solution for this watermain. Staff will review the options and proceed with the most economical solution for the Township. All efforts will be done to get this project completed in 2022.

Ninth Avenue watermain and roadwork design

The 2022 Budget document listed \$50,000 from the Watermain Replacement Capital budget (\$1,050,500) for design services. Staff tendered for the design services for this project and the lowest bidders was approximately \$190,000. The low bid is substantially over the allocated budget for this project, therefore staff will review options to ensure a financially feasible project.

FINANCIAL/BUDGET IMPACT:

While staff proceeds with these projects, we will continue to update the overall budget for all of the above noted projects, ensuring that we work with the approved budget, as ammended. The current market is volatile, and therefore any project that may be tendered during the upcoming fall and winter season will have a revised budget included in the 2023 Budget. Staff will continue to monitor the construction market and ensure pricing received for the projects tendered in 2022 are reasonable for the current climate.

STRATEGIC PLAN:

Tay Resilient – Supporting the road maintenance strategy, helping to ensure a timely, sustainable and economically responsible approach to maintaining and replacing local roadways throughout the community.

CONCLUSION:

There was some confusion by myself on the status of these projects and timing of the anticipated completion of the projects. The lack of knowledge transfer between new and previous staff in the Operations division created some gaps. The intention of this overview is to update Council on these budgeted item and staff intentions to move them forward.

Attachments:

1. PW-2020-17 by Peter Dance Dated March 11, 2020
2. 2022 Budget Justification Sheet

Prepared and Recommended By:

Date: March 1, 2022

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

Reviewed By:

Date: March 1, 2022

Lindsay Barron, CPA, CGA, HBCom.
Chief Administrative Officer



STAFF REPORT

Department/Function: Public Works

Chair: Councillor Barry Norris

Meeting Date: March 11, 2020

Report No: PW-2020-17

Report Title: Sanitary Sewer Fifth Avenue

RECOMMENDATION:

That Staff Report No. PW-2020-17 regarding the installation of sanitary sewer on Fifth Avenue from Hayes Street to Alberta Street be received;

And that, pending confirmation of regulatory approval, Council approves the inclusion of this installation as part of the 2020 Road and Watermain contract;

And that the cost for this work shall be funded from the wastewater reserve;

And those benefitting property owners shall be required to pay their share at the sooner of: time of connection or January 1, 2032.

And the staff report on the repayment terms and bring forward a Fees and Charges by-law.

INTRODUCTION/BACKGROUND:

Included in the 2020 capital budget there were funds allocated for road and watermain works. When the design project was awarded it was noted that consideration would be given to the addition of some sanitary sewer on Fifth Avenue. This report provides an update on that and makes a recommendation.

ANALYSIS:

Below are the sections currently included in the road and watermain project:

Fifth Avenue – Arpin St to Hayes St (500m);

- Road and watermain full length
- 110m of new sanitary sewer under consideration

Hayes Street – Fourth Ave to Fifth Ave (100m);

- Road and watermain full length

Athabaska Street – Seventh Ave to Barnes Ave (150m);

- Road resurfacing may be limited to east end
- Watermain full length

Bell Street – First Avenue to Second Avenue (140m);

- Watermain full length
- Road will be part of a future paving project.

Detailed review the possible extent of the sanitary sewer was completed. Considering both the construction and possible future use, it became clear that the limits of construction for the sanitary sewer should be Hayes to Alberta. This provides coverage for six to eight possible building lots including some Township owned land. Some of these properties have been the subject of recent development enquiries. In the future, the sewer will be able to service lands further to the north.

If this work is to be done during the life of the 2020 asphalt, it is best done now. There is also a clear cost savings from combining this work with a larger construction project.

There are several options for funding and financing of this work. These will be reviewed in more detail in a future report. As an interim suggestion, it is proposed that the costs be recovered from the benefitting property owners. This can be done through a Fees and Charges by-law. In fairness to those who may not want to develop immediately payment could be deferred to the earlier of connection or a set time period, say ten years after construction. Assuming construction in 2020 and allowing the 2021 season for the earliest possible home construction the ten year period could run until January 1, 2032. In addition, consideration will be given to when and how interest is charged. Interest charges could start in 2022 or be deferred for five years. While protection the value of the wastewater reserve's loan is a concern, it is important that interest costs do not make ultimate connection prohibitively expensive.

FINANCIAL/BUDGET IMPACT:

The overall project has been included in the 2020 Capital Budget. The sanitary sewer cost will be about \$110,000. This includes engineering, net HST and laterals to the property line. The split per property can be done in various ways. With six to eight connections possible the cost per property will be about \$13,800 to \$18,300.

It is proposed that the sewer costs be funded from the wastewater reserve.

CONCLUSION:

There is an opportunity to install sanitary sewer on a section of Fifth Avenue. Without the sewer, house construction on the adjacent vacant lots cannot proceed. There has been some interest expressed in making use of this sewer. The sewer construction cost is modest when completed at the time of exiting road and watermain works. It is reasonable to require the benefitting property owners to repay the cost of this work. It is recommended that Council approves the inclusion of the sanitary sewer in the construction contract.

Prepared by: Peter Dance, Director of Public Works

Recommended by:

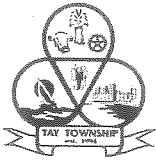
Date: March 4, 2020

Peter Dance
Director of Public Works

Reviewed by:

Date: March 4, 2020

Lindsay Barron
Chief Administrative Officer



Tay Township

2022 Budget Information Sheet

Watermain Replacement Project															
Budget Type	Capital														
Department	Operational Services														
Division	Water														
Prepared by	Mike Mortimer														
Approved by	Richard Bingham														
Department Priority	A														
Strategic Objective	Tay Resilient														
Request Summary	<p>The 2022 budget allows for watermain replacement at the following locations, which coordinate with the 2022 road program and are shovel ready, as the design has been completed:</p> <p>Fifth Ave - Hayes St to Arpin St Hayes St - Fifth Ave to Fourth Ave Athabaska St - Seventh Ave to Barnes Ave Easton Ave - Talbot St to dead end (re-lining recommended)</p> <p>In addition to the watermain replacement work above, the 2022 plan also includes \$50,000 for water/road design for Ninth Avenue, which is planned for 2023. This program will address our second biggest area of failures and water quality complaints by removing the last of the cast and ductile iron pipe from the upper section of the Port McNicoll distribution system.</p>														
Service Level Impact	Maintain														
Expected Useful Life	100 years														
Current Year Budget	<table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Expenses</th> <th style="text-align: right;">Funding</th> </tr> </thead> <tbody> <tr> <td>Materials</td> <td style="text-align: right;">1,050,500 Grants</td> </tr> <tr> <td>Consultants</td> <td style="text-align: right;">Reserve 1,050,500</td> </tr> <tr> <td>Equipment</td> <td style="text-align: right;">Development</td> </tr> <tr> <td>Legal</td> <td style="text-align: right;">Utility</td> </tr> <tr> <td>Other</td> <td style="text-align: right;">Surplus/Other</td> </tr> <tr> <td>Total</td> <td style="text-align: right;">1,050,500 Total 1,050,500</td> </tr> </tbody> </table>	Expenses	Funding	Materials	1,050,500 Grants	Consultants	Reserve 1,050,500	Equipment	Development	Legal	Utility	Other	Surplus/Other	Total	1,050,500 Total 1,050,500
Expenses	Funding														
Materials	1,050,500 Grants														
Consultants	Reserve 1,050,500														
Equipment	Development														
Legal	Utility														
Other	Surplus/Other														
Total	1,050,500 Total 1,050,500														
	2022 Tax Levy Impact \$0														
Future Year Budget															
Cost-Benefit Analysis and Other Financial Considerations	This sheet provides water cost only.														
Administrative Recommendation															

Content revised August 2021, by MM | Form revised May 9, 2021



STAFF REPORT

Department: Operational Services

Meeting Chair: Councillor Jeff Bumstead

Meeting Date: March 9, 2022

Report No.: **OS-2022-11**

Report Title: **Water Servicing Questionnaire – Tanners Road, Duffy Drive, and Area**

RECOMMENDATION:

That Staff Report No. OS-2022-11 regarding Water Servicing Questionnaire - Tanners Road, Duffy Drive, and Area be received; and

That Council direct staff to prepare cost estimates for the 3 residents interested in a water service now using best management practices and present these estimates to the interested residents.

INTRODUCTION/BACKGROUND:

On December 23, 2021 a mail out questionnaire was sent to residents who own property on Tanners Road, Duffy Drive, Delta Drive, Hearthstone Drive, and Playfair Drive after receiving inquiries in regards to connecting to the municipal drinking water system. The purpose of the questionnaire was to obtain feedback from residents to whom may wish to connect to the municipal system. The questionnaire was kept simple, asking residents if they would be interested in connecting to municipal services, yes or no. If answered yes, residents could then answer if they would like to connect as soon as possible, within 1 to 5 years or within 5-10 years. There was also space for residents to leave additional comments.

ANALYSIS:

A total of 58 letters were sent out, resulting in 22 (38%) responses from the residents. Results of the 22 responses interested in the Tay Drinking water system are as follows;

14/22(64%) responded **no**,

They do not wish to connect to municipal water services

7/22(12%) said **yes** they are interested,

3(5%) out of those 7 indicated they would like to connect to our services *as soon as possible*

2(3%) other residents indicated they would be interested in connecting within the next 5 years

2(3%) indicating their interest in connecting wouldn't be until 5-10 years

1/22 **requested more information.**

With the small amount of residents wishing to connect to the municipal drinking water system, staff recommend working with the 3 residents who are interested in connecting now to develop a cost estimate for their connect fee. This cost estimate would be 100 per cent borne by the property owners, and any upfront costs paid by the Township to initiate this project would be recoverable. Staff will report back to Council on the outcome of the interest by the residents.

FINANCIAL/BUDGET IMPACT:

The financial impact for the residents will be the actual cost of the installation of a minimum 50mm service(within the ROW), building permit fees for plumbing works on site and the water component of the Development Charges fees (currently \$5,150 for a single detached dwelling).

STRATEGIC PLAN:

Tay Resilient – Other

Listening and responding to our resident's needs strengthens our Community.

CONCLUSION:

Thirty eighth percent (38%) of the residents responded to the questionnaire and five percent(5%) said that they are interested in connecting to the Tay Area Drinking Water System. Staff are suggesting that we discuss options with the 3 residents directly to see what we can do to get them connected to the municipal drinking water system and explore whether there are any significant savings in constructing all three connections at the same time.

Prepared and Recommended By:

Date: March 1, 2022

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

Reviewed By:

Date: March 1, 2022

Lindsay Barron, CPA, CGA, HBCom.
Chief Administrative Officer



STAFF REPORT

<u>Department:</u>	Operational Services
<u>Meeting Chair:</u>	Councillor Jeff Bumstead
<u>Meeting Date:</u>	March 9, 2022
<u>Report No.:</u>	OS-2022-15
<u>Report Title:</u>	2021 Drinking Water Inspection Reports for the Tay Area Water System and the Rope Water System

RECOMMENDATION:

That Staff Report No. OS-2022-15 regarding the 2021 Drinking Water Inspection Reports for the Tay Area Water System and the Rope Water System be received for information.

INTRODUCTION/BACKGROUND:

Ministry of the Environment Conservation and Parks (MECP), under the Safe Drinking Water Act, is required to do an annual inspection of the drinking water systems. These detailed MECP inspections include water treatment plants and the associated water distribution systems.

In 2021, Tay Township implemented a substantial operating structure change. As has been in years past; from January 2021 through to October, the drinking water system was managed and operated by Township staff. In November of 2021, Ontario Clean Water Agency (henceforth referred to as OCWA), assumed operations of our Water and Wastewater systems; OCWA operated the system in November and December of 2021. This transition included staff repositioning as OCWA Operators and Team Leaders. Using the structural change as an opportunity for growth and progress, these staff members were integral to the success of our annual MECP inspections.

The Ministry of the Environment, Conservation and Parks has a rigorous and comprehensive inspection program for municipal drinking water systems. The MECP's objective is to determine the compliance of the drinking water system under the Safe Drinking Water Act and associated regulations. It is the responsibility of the drinking water system owner to ensure their

drinking water systems are in compliance with all applicable legal requirements.

ANALYSIS:

The yearly inspections were conducted by representatives of the MECP Barrie District Office on the Township of Tay Residential Drinking Water systems on the following dates;

Rope Drinking Water System-December 16, 2021

Tay Area Drinking Water System-November 23, 2021

The overview of methodology used by MECP to do the inspections of the drinking water system is attached. This document outlines the scoring procedure along with how well the system is performing over time.

In 2021 the Township of Tay Residential Drinking Water systems received the following scoring;

*Rope Drinking Water System–Non Compliance Rating 0/553-**100%***

*Tay Area Drinking Water System–Non Compliance Rating 21/570-**96.32%***

It is important to be aware that an inspection rating less than 100 per cent does not mean the drinking water from the system is unsafe. It shows areas where a system’s operation can improve.

Staff would like to thank that following staff for their dedication to the safe operation of the Township of Tay Residential Drinking Water Systems;

Paul La Chapelle

Caitlin Maracle

Ryan Matchett

Michael Paul

Joel Wilson

FINANCIAL/BUDGET IMPACT:

There is no new financial impact as part of this report.

STRATEGIC PLAN:

Tay Resilient – Reducing the impacts of climate change, ensuring the environmental sustainability of Tay Township is maintained.

CONCLUSION:

Staff recommends that the 2021 Ministry of the Environment Conservation and Parks (MECP) Inspection Reports be accepted as information only.

Attachments:

1. MECP Application of the Risk Methodology Used for measuring Municipal Residential Drinking Water System Inspection Results
2. MECP Inspection Summary for the Tay Area Drinking Water System dated November 23, 2021
3. MECP Inspection Summary for the Rope Drinking Water System dated December 16, 2021

Prepared By: Shawn Berriault March 01, 2022

Recommended By:

Date: March 01, 2022

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

Reviewed By:

Date: March 01, 2022

Lindsay Barron, CPA, CGA, HBCom.
Chief Administrative Officer

SCHEDULE 22
SUMMARY REPORTS FOR MUNICIPALITIES

Municipal: Large Residential
Small Residential

Application

22-1. This Schedule applies to the following drinking water systems:

1. Large municipal residential systems.
2. Small municipal residential systems.

Report

22-2. (1) The owner of a drinking water system shall ensure that, not later than March 31 of each year after 2003, a report is prepared in accordance with subsections (2) and (3) for the preceding calendar year and is given to,

- (a) in the case of a drinking water system owned by a municipality, the members of the municipal council;
- (b) in the case of a drinking water system owned by a municipal service board established under section 195 of the *Municipal Act, 2001*, the members of the municipal service board; or
- (c) in the case of a drinking water system owned by a corporation, the board of directors of the corporation.

(2) The report must,

- (a) list the requirements of the Act, the regulations, the system's approval, drinking water works permit, municipal drinking water licence, and any orders applicable to the system that were not met at any time during the period covered by the report; and
- (b) for each requirement referred to in clause (a) that was not met, specify the duration of the failure and the measures that were taken to correct the failure.

(3) The report must also include the following information for the purpose of enabling the owner of the system to assess the capability of the system to meet existing and planned uses of the system:

1. A summary of the quantities and flow rates of the water supplied during the period covered by the report, including monthly average and maximum daily flows.
2. A comparison of the summary referred to in paragraph 1 to the rated capacity and flow rates approved in the system's approval, drinking water works permit or municipal drinking water licence, or if the system is receiving all of its water from another system under an agreement pursuant to subsection 5 (4), to the flow rates specified in the written agreement.

(4) If a report is prepared under subsection (1) for a system that supplies water to a municipality under the terms of a contract, the owner of the system shall give a copy of the report to the municipality by March 31.

(5) REVOKED: O. Reg. 253/05, s. 18.

OWRA approvals

22-3. A provision of an OWRA approval that requires the completion and presentation of a compliance report does not apply to a drinking water system if the owner of the system complies with section 22-2.

O. Reg. 170/03, Sched. 22; O. Reg. 249/03, s. 24; O. Reg. 253/05, s. 18; O. Reg. 418/09, s. 26.

SCHEDULE 23 INORGANIC PARAMETERS

Item	Parameter
1.	Antimony
2.	Arsenic
3.	Barium
4.	Boron
5.	Cadmium
6.	Chromium
7.	Mercury
8.	Selenium
9.	Uranium

O. Reg. 170/03, Sched. 23.

SCHEDULE 24 ORGANIC PARAMETERS

Item	Parameter
1.	Alachlor
2.	Atrazine + N-dealkylated metabolites
3.	Azinphos-methyl
4.	Benzene
5.	Benzo(a)pyrene
6.	Bromoxynil
7.	Carbaryl
8.	Carbofuran
9.	Carbon Tetrachloride
10.	Chlorpyrifos
11.	Diazinon
12.	Dicamba
13.	1,2-Dichlorobenzene
14.	1,4-Dichlorobenzene
15.	1,2-Dichloroethane
16.	1,1-Dichloroethylene (vinylidene chloride)
17.	Dichloromethane
18.	2,4-Dichlorophenol

19.	2,4-Dichlorophenoxy acetic acid (2,4-D)
20.	Diclofop-methyl
21.	Dimethoate
22.	Diquat
23.	Diuron
24.	Glyphosate
25.	Malathion
26.	2-Methyl-4-chlorophenoxyacetic acid
27.	Metolachlor
28.	Metribuzin
29.	Monochlorobenzene
30.	Paraquat
31.	Pentachlorophenol
32.	Phorate
33.	Picloram
34.	Polychlorinated Biphenyls (PCB)
35.	Prometryne
36.	Simazine
37.	Terbufos
38.	Tetrachloroethylene (perchloroethylene)
39.	2,3,4,6-Tetrachlorophenol
40.	Triallate
41.	Trichloroethylene
42.	2,4,6-Trichlorophenol
43.	Trifluralin
44.	Vinyl Chloride

O. Reg. 374/15, s. 10.

SUMMARY REPORT

ONTARIO REGULATION 170/03
SECTION 22

TAY AREA DRINKING WATER SYSTEM



**FOR THE PERIOD:
JANUARY 1, 2021 – DECEMBER 31, 2021**

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



SCHEDULE 22
SUMMARY REPORTS FOR MUNICIPALITIES

Municipal: Large Residential
Small Residential

Application

22-1. This Schedule applies to the following drinking water systems:

1. Large municipal residential systems.
2. Small municipal residential systems.

Report

22-2. (1) The owner of a drinking water system shall ensure that, not later than March 31 of each year after 2003, a report is prepared in accordance with subsections (2) and (3) for the preceding calendar year and is given to,

- (a) in the case of a drinking water system owned by a municipality, the members of the municipal council;
- (b) in the case of a drinking water system owned by a municipal service board established under section 195 of the *Municipal Act, 2001*, the members of the municipal service board; or
- (c) in the case of a drinking water system owned by a corporation, the board of directors of the corporation.

(2) The report must,

- (a) list the requirements of the Act, the regulations, the system's approval, drinking water works permit, municipal drinking water licence, and any orders applicable to the system that were not met at any time during the period covered by the report; and
- (b) for each requirement referred to in clause (a) that was not met, specify the duration of the failure and the measures that were taken to correct the failure.

(3) The report must also include the following information for the purpose of enabling the owner of the system to assess the capability of the system to meet existing and planned uses of the system:

1. A summary of the quantities and flow rates of the water supplied during the period covered by the report, including monthly average and maximum daily flows.
2. A comparison of the summary referred to in paragraph 1 to the rated capacity and flow rates approved in the system's approval, drinking water works permit or municipal drinking water licence, or if the system is receiving all of its water from another system under an agreement pursuant to subsection 5 (4), to the flow rates specified in the written agreement.

(4) If a report is prepared under subsection (1) for a system that supplies water to a municipality under the terms of a contract, the owner of the system shall give a copy of the report to the municipality by March 31.

(5) Revoked: O. Reg. 253/05, s. 18.

Ontario Regulation 170/03: Drinking Water Systems

Schedule 22 Summary Report

JANUARY 01, 2021 – DECEMBER 31, 2021

DRINKING-WATER SYSTEM NAME:	Tay Area Drinking Water System
DRINKING-WATER SYSTEM NUMBER:	220001076
DRINKING-WATER SYSTEM CATEGORY:	LARGE MUNICIPAL RESIDENTIAL
MUNICIPAL DRINKING WATER LICENCE #:	129-102 (issued on December 20, 2020)
DRINKING-WATER WORKS PERMIT #:	129-202 (issued on December 20, 2020)
PERMIT TO TAKE WATER #:	4221-9QDHS4

REPORT

This report is a summary of water quantity data for the Tay Area Drinking Water System (DWS) in the Township of Tay written in accordance with Schedule 22 of Ontario's Drinking Water Systems Regulation for the reporting period of January 1, 2021 to December 31, 2021. The Tay Area DWS is categorized as a Large Municipal Residential Drinking Water System. This report was prepared by the Ontario Clean Water Agency on behalf of the Corporation of the Township of Tay.

ISSUES OF NON-COMPLIANCE

The following outlines any instances when the DWS failed to meet the requirements of the Act, Regulations, System Approval(s) and any Order during this reporting period and the measures taken to correct each failure.

1. August 16, 2021 – Low Free Chlorine Residual

Ontario Regulation 170/03 Requirement:

Schedule 1 – Treatment Equipment, 1-2 General Obligations

Incident Description: On August 16, 2021, during regular rounds, a free chlorine residual was measured in the distribution system of 0.02 mg/L, below the recommended threshold of 0.05mg/L. AWQI # 155084 was issued.

Corrective Actions:

- Samples were collected at the time of the incident – no contamination detected
- Mains in the area were immediately flushed to restore free chlorine residual to acceptable levels
- The section of watermain to which the low chlorine residual was discovered is planned for relining in 2023
- New SOPs were created and made available to Operations staff for reference for any future incidents

Status: Ongoing

Please refer to the Annual Report (Section 11) for the Tay Area DWS for information regarding Adverse Water Quality Incident(s) that may have occurred during the reporting period.

SYSTEM PERFORMANCE

The following tables (Table 1 and Table 2) summarize the quantities and flow rates of the raw water taken and treated water supplied during the period covered by this report, including monthly average and maximum day flows, and daily instantaneous peak flow rates, as well as a comparison with the allowable maximum daily volume and flow rates for the system.

Ontario Regulation 170/03: Drinking Water Systems

Schedule 22 Summary Report

JANUARY 01, 2021 – DECEMBER 31, 2021

Table 1: Tay Area DWS – Raw Water (RW) Summary for Reporting Period

Description	Raw Water Intake
Maximum Daily Volume (m ³ /day)*	10,627.2
Maximum Flow Rate (L/s)	123.0
Average Day Flow (m ³ /day)	2,739.3
% of Maximum Daily Volume	25.8
Maximum Day Flow (m ³ /day)	6,148.0
% of Maximum Daily Volume	57.9
Average Daily Flow Rate	56.9
% of Approved Flow Rate	46.3
Daily Instantaneous Peak Flow Rate (L/s)	100.0
% of Approved Flow Rate	81.3
Total Annual Flow (m ³)	1,000,952

*As specified in the Permit to Take Water, where the “maximum daily volume” is expressed as the “Total Taking” in cubic metres per day.

Table 2: Tay Area DWS – Treated Water (TW) Summary for Reporting Period

Description	Treated Water Production
Maximum Daily Volume(m ³ /day)*	10,065.0
Average Day Flow (m ³ /day)	2,459.7
% of Maximum Daily Volume	24.4
Maximum Day Flow (m ³ /day)	5,569.0
% of Maximum Daily Volume	55.3
Total Annual Flow (m ³)	898,902.0

*As specified in the Permit to Take Water, where the “maximum daily volume” is expressed as the “Total Taking” in cubic metres per day.

Ontario Regulation 170/03: Drinking Water Systems

Schedule 22 Summary Report

JANUARY 01, 2021 – DECEMBER 31, 2021

A review of Tay Area DWS flow information for the period of January 1, 2021 to December 31, 2021 indicates that there were no exceedances of the MDWL Rated Capacity at the Pumphouse, which also means there were no exceedances of the maximum daily volume as per the PTTW.

The following tables (Table 3 and Table 4) outline a more detailed flow summary for the Raw and Treated Water Flows

Table 3: Tay Area DWS – Facility Flow Summary for Raw Water Intake (RW)

Month	Monthly Flow Total (m ³ /month)	Daily Flow Average (m ³ /day)	Daily Flow Maximum (m ³ /day)	Daily Average Flow Rate (L/sec)	Daily Peak Flow Rate (L/sec)	Number of Days of Water Taking
Jan	65,579	2,115	2,301	57	100	31
Feb	60,913	2,175	2,504	57	100	28
Mar	65,891	2,126	2,585	56	100	31
Apr	76,739	2,558	3,195	55	100	30
May	111,370	3,593	5,621	53	100	31
Jun	112,398	3,747	6,148	60	100	30
Jul	92,135	2,972	3,888	61	100	31
Aug	116,407	3,755	5,449	58	100	31
Sep	88,573	2,952	4,045	56	100	30
Oct	75,158	2,424	3,131	57	100	31
Nov	68,184	2,273	5,283	57	100	30
Dec	67,605	2,181	2,712	55	100	31
Total	1,000,952	-	-	-	-	365
Avg.	-	2,739.3	-	57	-	-
Max.	-	-	6,148.0	-	100	-

Ontario Regulation 170/03: Drinking Water Systems

Schedule 22 Summary Report

JANUARY 01, 2021 – DECEMBER 31, 2021

Table 4: Tay Area DWS – Facility Flow Summary for Treated Water (TW)

Month	Monthly Flow Total (m ³ /month)	Daily Flow Average (m ³ /day)	Daily Flow Maximum (m ³ /day)	Daily Average Flow Rate (L/sec)	Daily Peak Flow Rate (L/sec)	Number of Days of Water Taking
Jan	59,026	1,904	2,070	58	71	31
Feb	54,468	1,945	2,264	58	111	28
Mar	59,154	1,908	2,298	58	62	31
Apr	68,548	2,285	2,889	58	109	30
May	100,194	3,232	5,027	58	121	31
Jun	101,589	3,386	5,569	58	119	30
Jul	83,967	2,709	3,634	58	114	31
Aug	105,268	3,396	4,923	57	116	31
Sep	79,943	2,665	3,484	56	157	30
Oct	67,836	2,188	2,812	56	114	31
Nov	58,504	1,950	2,315	56	114	30
Dec	60,405	1,949	2,225	56	62	31
Total	898,902	-	-	-	-	365
Avg.	-	2,460	-	57	-	-
Max.	-	-	5,569	-	157	-

For additional information on the treated water flows from the Tay Area DWS, please refer to the following graphical representations:

- Graph 1: Treated Water Flows for 2021

Ontario Regulation 170/03: Drinking Water Systems

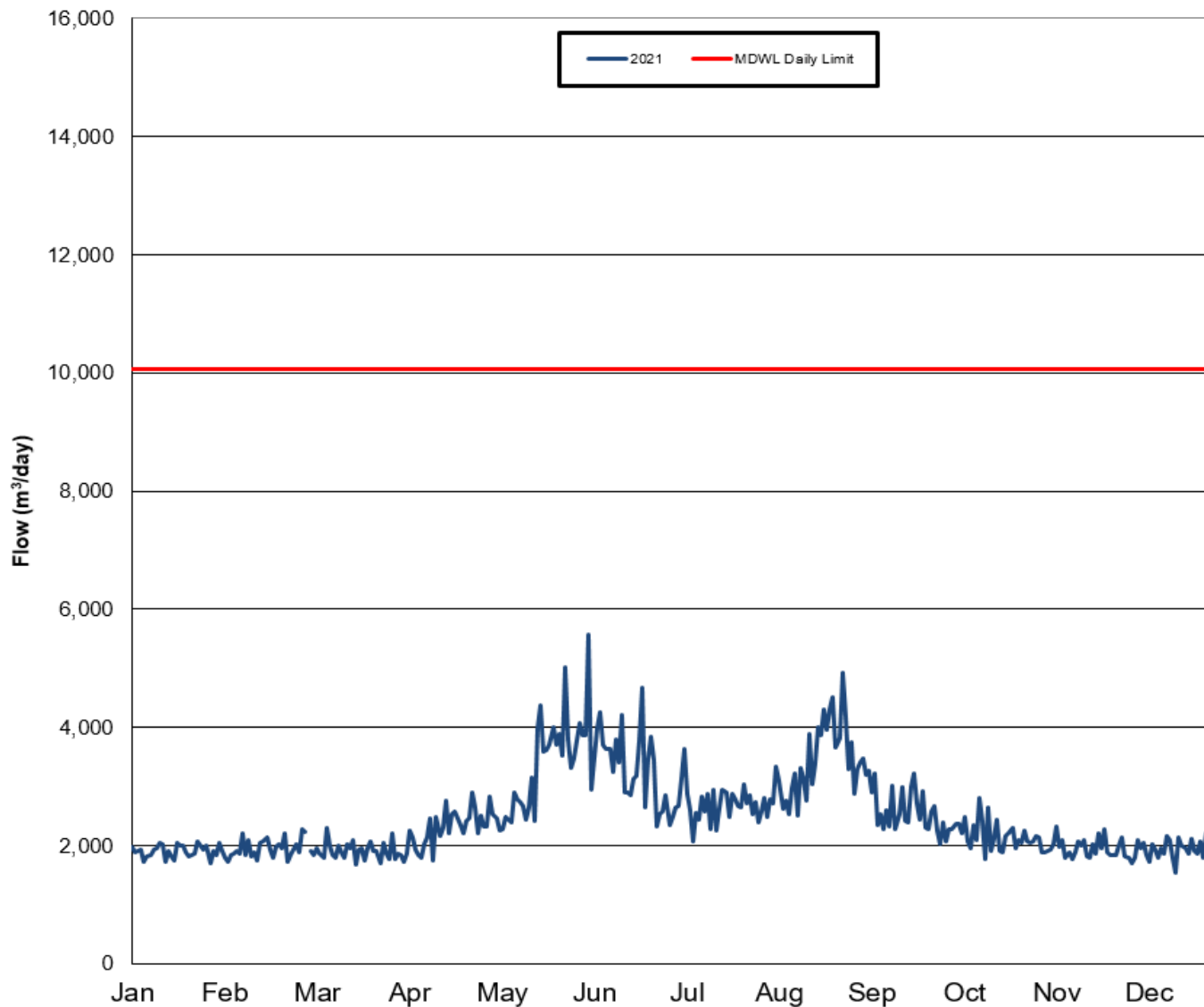
Schedule 22 Summary Report

JANUARY 01, 2021 – DECEMBER 31, 2021

Graph 1: Treated Water Flows for Reporting Period



Tay Area DWS - Total Treated Flows (2021)



SUMMARY REPORT

ONTARIO REGULATION 170/03
SECTION 22

ROPE DRINKING WATER SYSTEM



**FOR THE PERIOD:
JANUARY 1, 2021 – DECEMBER 31, 2021**

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



SCHEDULE 22
SUMMARY REPORTS FOR MUNICIPALITIES

Municipal: Large Residential
Small Residential

Application

22-1. This Schedule applies to the following drinking water systems:

1. Large municipal residential systems.
2. Small municipal residential systems.

Report

22-2. (1) The owner of a drinking water system shall ensure that, not later than March 31 of each year after 2003, a report is prepared in accordance with subsections (2) and (3) for the preceding calendar year and is given to,

- (a) in the case of a drinking water system owned by a municipality, the members of the municipal council;
- (b) in the case of a drinking water system owned by a municipal service board established under section 195 of the *Municipal Act, 2001*, the members of the municipal service board; or
- (c) in the case of a drinking water system owned by a corporation, the board of directors of the corporation.

(2) The report must,

- (a) list the requirements of the Act, the regulations, the system's approval, drinking water works permit, municipal drinking water licence, and any orders applicable to the system that were not met at any time during the period covered by the report; and
- (b) for each requirement referred to in clause (a) that was not met, specify the duration of the failure and the measures that were taken to correct the failure.

(3) The report must also include the following information for the purpose of enabling the owner of the system to assess the capability of the system to meet existing and planned uses of the system:

1. A summary of the quantities and flow rates of the water supplied during the period covered by the report, including monthly average and maximum daily flows.
2. A comparison of the summary referred to in paragraph 1 to the rated capacity and flow rates approved in the system's approval, drinking water works permit or municipal drinking water licence, or if the system is receiving all of its water from another system under an agreement pursuant to subsection 5 (4), to the flow rates specified in the written agreement.

(4) If a report is prepared under subsection (1) for a system that supplies water to a municipality under the terms of a contract, the owner of the system shall give a copy of the report to the municipality by March 31.

(5) Revoked: O. Reg. 253/05, s. 18.

Ontario Regulation 170/03: Drinking Water Systems

Schedule 22 Summary Report

JANUARY 01, 2021 – DECEMBER 31, 2021

DRINKING-WATER SYSTEM NAME:	Rope Drinking Water System
DRINKING-WATER SYSTEM NUMBER:	220011323
DRINKING-WATER SYSTEM CATEGORY:	SMALL MUNICIPAL RESIDENTIAL
MUNICIPAL DRINKING WATER LICENCE #:	129-101 (issued on December 28, 2020)
DRINKING-WATER WORKS PERMIT #:	129-201 (issued on December 28, 2020)
PERMIT TO TAKE WATER #:	2756-8UKPGS

REPORT

This report is a summary of water quantity data for the Rope Drinking Water System (DWS) in the Township of Tay written in accordance with Schedule 22 of Ontario's Drinking Water Systems Regulation for the reporting period of January 1, 2021 to December 31, 2021. The Rope DWS is categorized as a Large Municipal Residential Drinking Water System. This report was prepared by the Ontario Clean Water Agency on behalf of the Corporation of the Township of Tay.

ISSUES OF NON-COMPLIANCE

The following outlines any instances when the DWS failed to meet the requirements of the Act, Regulations, System Approval(s) and any Order during this reporting period and the measures taken to correct each failure.

Not Applicable for the Reporting Period
--

Please refer to the Annual Report (Section 11) for the Rope DWS for information regarding Adverse Water Quality Incident(s) that may have occurred during the reporting period.

SYSTEM PERFORMANCE

The following tables (Table 1 and Table 2) summarize the quantities and flow rates of the raw water taken and treated water supplied during the period covered by this report, including monthly average and maximum day flows, and daily instantaneous peak flow rates, as well as a comparison with the allowable maximum daily volume and flow rates for the system.

Ontario Regulation 170/03: Drinking Water Systems

Schedule 22 Summary Report

JANUARY 01, 2021 – DECEMBER 31, 2021

Table 1: Rope DWS – Raw Water (RW) Summary for Reporting Period

Description	Raw Water Intake
Maximum Daily Volume(m ³ /day)*	273.8
Maximum Flow Rates (L/s)	4.8
Average Day Flow (m ³ /day)	33.9
% of Maximum Daily Volume	12.4
Maximum Day Flow (m ³ /day)	85.3
% of Maximum Daily Volume	31.2
Average Daily Flow Rate	1.2
% of Approved Flow Rate	25.0
Daily Instantaneous Peak Flow Rate (L/s)	4.6
% of Approved Flow Rate	95.8
Total Annual Flow (m ³)	12,435

**As specified in the Permit to Take Water, where the “maximum daily volume” is expressed as the “Total Taking” in cubic metres per day.*

Ontario Regulation 170/03: Drinking Water Systems

Schedule 22 Summary Report

JANUARY 01, 2021 – DECEMBER 31, 2021

Table 2: Rope DWS – Treated Water (TW) Summary for Reporting Period

Description	Treated Water Production
Maximum Daily Volume(m ³ /day)*	216.0
Maximum Flow Rates (Rated Capacity) (L/s)**	3.2
Average Day Flow (m ³ /day)	26.0
% of Maximum Daily Volume	12.0
Maximum Day Flow (m ³ /day)	60.8
% of Maximum Daily Volume	28.1
Average Daily Flow Rate	1.1
% of Approved Flow Rate	34.4
Daily Instantaneous Peak Flow Rate (L/s)+	10.6
% of Approved Flow Rate	331.3
Total Annual Flow (m ³)	9,560

*As specified in the Permit to Take Water, where the “maximum daily volume” is expressed as the “Total Taking” in cubic metres per day.

**Rated Capacity as per the Municipal Drinking Water License, UV System Unit Max used as reference.

+Exceedances are due to power bumps, pump start-ups, and their instantaneous flow rate measurements.

A review of Rope DWS flow information for the period of January 1, 2021 to December 31, 2021 indicates that there were no exceedances of the MDWL Rated Capacity at the Pumphouse, which also means there were no exceedances of the maximum daily volume as per the PTTW.

Ontario Regulation 170/03: Drinking Water Systems

Schedule 22 Summary Report

JANUARY 01, 2021 – DECEMBER 31, 2021

The following tables (Table 3 and Table 4) outline a more detailed flow summary for the Raw and Treated Water Flows

Table 3: Rope DWS – Facility Flow Summary for Raw Water Intake (RW)

Month	Monthly Flow Total (m ³ /month)	Daily Flow Average (m ³ /day)	Daily Flow Maximum (m ³ /day)	Daily Average Flow Rate (L/sec)	Daily Peak Flow Rate (L/sec)	Number of Days of Water Taking
Jan	901.7	29.1	54.3	0.7	3.6	31
Feb	910.2	31.4	58.6	1.3	4.0	28
Mar	873.1	28.2	32.5	1.1	4.6	31
Apr	971.4	32.4	40.6	1.2	4.5	30
May	1,434.1	46.3	69.4	1.2	2.6	31
Jun	1,517.5	50.6	85.3	1.3	4.0	30
Jul	1,224.0	39.5	56.5	1.6	2.2	31
Aug	1,312.3	42.3	61.4	1.6	2.5	31
Sep	602.4	20.1	36.9	1.4	2.8	30
Oct	1,001.5	32.3	44.4	1.5	2.4	31
Nov	843.6	28.1	38.8	0.7	1.2	30
Dec	843.1	27.2	52.7	0.7	4.6	31
Total	12,434.9	-	-	-	-	365
Avg.	-	33.9	-	1.2	-	-
Max.	-	-	85.3	-	4.6	-

Table 4: Rope DWS – Facility Flow Summary for Treated Water (TW)

Month	Monthly Flow Total (m ³ /month)	Daily Flow Average (m ³ /day)	Daily Flow Maximum (m ³ /day)	Daily Average Flow Rate (L/sec)	Daily Peak Flow Rate (L/sec)	Number of Days of Water Taking
Jan	575.7	18.6	23.7	1.0	4.6	31
Feb	568.8	19.6	27.6	1.0	8.4	28
Mar	642.2	20.7	23.8	1.0	7.6	31
Apr	722.5	24.1	31.0	1.1	5.4	30
May	1,058.3	34.1	51.8	1.3	5.7	31
Jun	1,177.6	39.3	60.8	1.4	7.0	30
Jul	970.9	31.3	47.5	1.2	8.0	31
Aug	1,042.9	33.6	50.5	1.2	5.8	31
Sep	794.8	26.5	39.0	1.1	5.3	30
Oct	721.7	23.3	28.9	1.0	10.6	31
Nov	622.3	20.1	28.1	1.0	4.7	30
Dec	662.0	21.4	41.8	1.0	7.6	31
Total	9559.7	-	-	-	-	365
Avg.	-	26.0	-	1.1	-	-
Max.	-	-	60.8	-	10.6	-

Ontario Regulation 170/03: Drinking Water Systems

Schedule 22 Summary Report

JANUARY 01, 2021 – DECEMBER 31, 2021

For additional information on the treated water flows from the Rope DWS, please refer to the following graphical representations:

- Graph 1: Treated Water Flows for 2021

Ontario Regulation 170/03: Drinking Water Systems

Schedule 22 Summary Report

JANUARY 01, 2021 – DECEMBER 31, 2021

Graph 1: Treated Water Flows for Reporting Period



Rope DWS - Total Treated Flows (2021)





STAFF REPORT

Department: Operational Services

Meeting Chair: Councillor Jeff Bumstead

Meeting Date: March 09, 2022

Report No.: **OS-2022-16**

Report Title: **2022 Pulverizing Asphalt Based Roads**

RECOMMENDATION:

That Staff Report No. OS-2022-16 regarding RFQ 2022-04 Quotation for Pulverizing Asphalt Based Roads and blending with sub materials be received; and

That Council accept the lowest quote for Pulverizing Asphalt tender bid from Roto-Mill Inc. for \$28,176.55, including HST.

INTRODUCTION/BACKGROUND:

Tay Township Operational Services division is looking ahead at strategic road works repairs. The Pulverizing of Asphalt Based roads and blending with sub materials RFQ 2022-04, is to work in conjunction with our RFQ 2022-01 Asphalt 2022 project.

Tay Township received three bids from contractors for this request for quotation.

Upon review of the submissions, Roto-Mill Inc. was determined to be the lowest bid with the best financial impact towards our 2022 budgetary objectives.

ANALYSIS:

The following Road Works are included with this Quotation;

Victoria Harbour

Streets	From	To
Lumber Rd	Ellen	Victoria
Donahue St.	Duckworth St.	Victoria St.
Duckworth St.	Donahue St.	Lumber Rd
Lions Court	Park St	End
Winfield Dr.	William St.	End
Albert St.	Bay St.	John Dillingno
Park St.	Hwy 12	Richard St.

Waubashene

Streets	From	To
Mountain Ave.	Cherry St	Elm St.
Coldwater Rd	Pine St.	Hazel St
Sandhill Rd	Vasey Rd	2000m North
450 Park St	Works Yard	Victoria Harbour

Port McNicoll

Street	From	To
Fifth Ave	Arpin St.	Hayes St.
Hayes St.	Fourth Ave.	Fifth Ave
Hogg Valley Rd	Ron Jones Rd.	Rumney Rd

The follow bids were received for consideration;

Company Name :	Amount of Quote: (Including HST)
Claussen Farms Custom Farming Inc.	\$34,653.93
Libson Paving Co. Limited	\$51,980.00
Roto-Mill Inc.	\$28,176.55

FINANCIAL/BUDGET IMPACT:

The price Roto-Mill Inc. has provided is within estimate cost range that staff has allotted for this portion of the 2022 Capital Roads Program and all cost will be applied to Roads Program Budget. As the road program is not finalized for 2022, we are waiting for the asphalt tender to close so we can put the program together within our 2022 approved budget.

Estimate Cost for pulverizing all road surfaces for purposed areas;
\$40,000.00

Roto-Mill Inc. cost;
\$28,176.00

STRATEGIC PLAN:

Tay Resilient – Supporting the road maintenance strategy, helping to ensure a timely, sustainable and economically responsible approach to maintaining and replacing local roadways throughout the community.

CONCLUSION:

It is recommended that council accept the lowest bid from RFQ 2022-04 for Pulverizing Asphalt Roads and blending with sub materials, from Roto-Mill Inc., for the total amount of \$28,176.55, including HST. As the road program has not been finalized it is understood that only the roads and the actual area of pulverizing will be paid under this contract. The Township has the ability to add and remove road sections to this contract.

Attachments:

1. Draft Form of Agreement for RFQ 2022-04- Pulverizing of Asphalt Based Roads

Prepared By:

Date: February 28, 2022

Alexandra Matthews
Administrative Assistant, Operational Services

Recommended By:

Date: February 28, 2022

Jody Haourt,
Manager, Roads and Fleet

Reviewed By:

Date: March 01, 2022

Shawn Berriault, C.Tech
General Manager, Operational Services

FORM OF AGREEMENT

THIS AGREEMENT made this 25th day of February 2022, between

THE CORPORATION OF THE TOWNSHIP OF TAY

Herein referred to as the "Owner"

OF THE FIRST PART

- and -

ROTO-MILL Inc.

Hereinafter referred to as the "Contractor"

OF THE SECOND PART

WHEREAS the Owner issued a Request for Tender for the deliverables;

AND WHEREAS the parties hereto have agreed to enter into this Agreement to clarify the terms;

NOW THEREFORE this Agreement witnesseth that, in consideration of the payment hereinafter provided and the promises and covenants contained herein, the parties hereto agree as follows:

1. The Contractor agrees to complete the work as per the Specifications, Quantities, Locations and Pricing listed in his/her **Tender 2022-04 Quotation for Pulverizing Asphalt Based Roads and Blending with Sub Materials** submission dated **February 25, 2022**, for the price or sum of **\$28,176.55**, including HST.
1. The Owner agrees to pay the Contractor for all work done, the payment and details specified in **Tender 2022-04 Quotation for Pulverizing Asphalt Based Roads and Blending with Sub Materials**, attached hereto as Schedule A.

DATED THIS **23rd** day of **March 2022**

ROTO-MILL Inc.

for ROTO-MILL Inc.

Print Name and Title

THE CORPORATION OF THE TOWNSHIP OF TAY

CYNDI BONNEVILLE, CLERK

TED WALKER, MAYOR



STAFF REPORT

<u>Department:</u>	Operational Services
<u>Meeting Chair:</u>	Councillor Jeff Bumstead
<u>Meeting Date:</u>	March 09, 2022
<u>Report No.:</u>	OS-2022-14
<u>Report Title:</u>	Monthly Activity Report - General Manager, Operational Services

ORIGIN

GM Operational Services/Engineering Manager and administrative assistants from January 25, 2021 to February 28, 2022.

General Manager

Following is a summary of high level tasks performed during this time period.

-Continued to work with MECP, OCWA and our departments administrative staff on the Consolidated Linear Infrastructure. The purpose of the Linear Infrastructure Permissions Approach (CLI) is to consolidate certain municipal sewage works approvals into a:

- * a single ECA for all of a municipality's sewage collection works and
- * a single ECA for all of a municipality's stormwater management Works

-Staff retention and performance evaluations

-Various Covid-19 issues

-Working on the following RFP's

- * 2022 Plow Truck purchase
- * Utility Trailer
- * Ninth Ave Reconstruction

-Capital Projects, continue to work on the following projects

- *Tay Area WTP Phase 2 Capital Project
- *Victoria Harbour Wastewater Treatment Plant
- *Rosemount Road Bridge Replacement Design Project
- *2022 Road Paving Project

-Various work with OCWA on both the water operations and the wastewater operations side.

Road Closure Notice;

Event – 2022 Paul Spencer Memorial Soap Box Derby

Date – Sunday May 22, 2022

Road Closure – Port McNicoll, Talbot Street from Sixth Avenue to Third Avenue

Hours – 9:00am to 4:00pm

Special Note - ATV's will be used on the closed street to tow the carts back up the hill. All safety equipment will be used on the ATV's.

Engineering

The engineering division has been busy with the following;

- Reviewing and evaluating the 2021 and 2022 Capital Budget requests along with reviewing the Townships Long Range Plan. With the turnover in staffing over the last couple of years within the division, we need to get a better understanding of projects that have yet to be completed, status of projects that are in the planning phase and project that have been missed.
- Continue to work with the Planning and Building services division to review lot grading plans and entrance permits along with the procedure of lot grading applications in the Township of Tay.
- Review development projects that are currently under construction. Pre-construction and developments that are looking for release of the letter of credits with final assumption by the township.
 - Port McNicoll – Ney Ave and Marina Development(Old Skyline development)
 - Waverley Heights
 - 400 Newton Street
 - 3100 Triple Bay Road
 - 2558 West Service Road
 - Victoria Glen Estate Phase 3
 - Various other developments
- Meeting with OCWA and WSP on the VH Wastewater Treatment Plant expansion project. Working towards having a 3D modeling of the existing plant to help all three parties understand the limitations of the existing facility. As well as reviewing existing components
- General technical review of works by the operational services division, drainage complaints/questions and general complaint.

MEETINGS/TRAINING

Staff meeting and training for the month of December consists of;

- Meeting with various developers and consultants
- ECG Meeting
- Simcoe County Recreation group Covid-19 meeting
- Various staff meetings

- Committee and Council meetings
- Meeting with MTO regarding HWY 12 corridor
- Monthly leadership meeting

STRATEGIC PLAN:

Tay Resilient – Reducing the impacts of climate change, ensuring the environmental sustainability of Tay Township is maintained.

Prepared By:

Date: February 28, 2022

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

Recommended By:

Date: March 1, 2022

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



STAFF REPORT

<u>Department:</u>	Operational Services
<u>Meeting Chair:</u>	Councillor Jeff Bumstead
<u>Meeting Date:</u>	March 09, 2022
<u>Report No.:</u>	OS-2022-12
<u>Report Title:</u>	Monthly Activity Report – Manager of Parks, Recreation and Facilities Services

ORIGIN

Manager of Parks, Recreation and Facility Services for the period of January 26, 2022 to February 28, 2022.

RECREATION

Summer Day Camp and Soccer Programs

Staff is preparing plans for the Summer Day Camp and Summer TOTS Soccer programs for 2022. This year, much like last, Summer Day Camps will be offered at both Oakwood Community Centre and Port McNicoll Community Centre. As well, plans are underway to bring back the TOTS Summer Soccer program that has been on hiatus for the past two summers.

North Simcoe Parks and Recreation Guide

The Spring/Summer addition of the guide is slated to be released on Thursday May 5th; this is when registration will open for Summer Day Camps, TOTS Soccer and Active Living Programs.

Winter Active Living Programs

The winter session of Active Living Programs resumed during the week of January 31st. These programs are slated to be ten week programs and will run until the week of April 4th. Currently we have 4 active living classes in progress.

Spring/Summer Active Living Programs

Staff is currently working with Program Instructors to determine Spring/Summer Active Living program offerings.

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 2022, on Sunday May 22nd. 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 a 2022 event. The Committee has scheduled a meeting in March to start ironing out event plans and continues to be excited about bringing the event back to the community.

Portaroma Committee

The Portaroma Committee is very hopeful that a 2022 event will be possible. Staff has reached out to the organizers to begin discussions about what the Committee may be planning for 2022.

Waubushene Recreation Committee

The Waubushene Recreation Committee is eager to restart their usual programming at the Bridgeview Park portable. The hope is to restart programming in mid-March (when facilities open back up).

PARKS

Outdoor Rinks

Operational Services Staff have been able to keep the natural ice outdoor rinks open for the entire month of February (minus a day or two of closures for warm weather). By all accounts the rinks have been well used and enjoyed by the community.

Trail – Winter Maintenance

For the second winter season in a row staff has continued to maintain pre-determined sections of the Trail as part of ongoing winter maintenance activities. To date, several positive comments have been received about the sections that have received this maintenance and the amount of use they have been getting by local residents.

MacKenzie Park Washroom and Pavilion

Staff has scheduled a meeting in mid-March with the contractor to ensure everything is on track to get these projects proceeding in the Spring.

FACILITIES

Tay Community Rink

The Tay Community Rink had another great month in February with the community utilizing the facility during free open public times. With the opening of indoor arena facilities throughout the Province, our private rentals dropped off a bit, however, there was still a steady flow of the 'usual' renters utilizing the facility.

Community Centre's/Meeting and Events Spaces

Community Centre's and meeting and events spaces remained closed during the month of February due to the Provincial regulations around Proof of Vaccination. Once the Proof of Vaccination regulation is dropped, staff will work to get community centre's and meeting and event spaces opened back up for public use/rentals.

Miscellaneous Facility Work

- Installed new hot water tank at Waverley rink, replaced all old copper and ran new.
- Installed new hose reels across all fire halls, added new electrical male/female ends as needed for each truck.
- Timers installed for all outdoor rink lighting systems.
- Talbot Park Washroom Building - changed out faucet on sink, replaced two refill valves on toilets.
- Port McNicoll Community Centre - Venting motor replaced on roof top unit, as well as, repaired timer for exterior lights.
- Lighting ballasts replaced at Waubuashene Library and Victoria Harbour Post Office.

MEETINGS

- Weekly Conference Call/Zoom meeting with SMDHU and Simcoe County Recreation Associations (SCRA) members.
- Operational Services Committee
- Post Council meeting
- Operational Services Department Meetings
- Emergency Control Group
- Leadership Team
- SMDHU Conference call with Simcoe County Recreation Departments regarding Day Camp regulations
- Inter-department meetings regarding Summer Staff needs and review of employment applications

TRAINING

The following training/webinars were attended:

- Blackstone Learning Solutions - Municipal Public Sector Online On-Demand Courses

Prepared By:

Date: March 1, 2022

Bryan Anderson, CRFP, CIT

Manager of Parks, Recreation and Facility Services

Reviewed By:

Date: March 1, 2022

Shawn Berriault, C.Tech

General Manager, Operational Services

Manager of Engineering Services



STAFF REPORT

<u>Department:</u>	Operational Services
<u>Meeting Chair:</u>	Councillor Jeff Bumstead
<u>Meeting Date:</u>	March 9, 2022
<u>Report No.:</u>	OS-2022-13
<u>Report Title:</u>	Monthly Activity Report – Manager of Roads and Fleet Services

ORIGIN

Manager of Roads and Fleet Services for the period of January 24, 2022 to February 28, 2022.

Road Operations

Staff has been completing service requests and regular road maintenance duties. Road patrolling, plowing and sanding, repairing potholes, opening ditches and culverts in drainage problem area due to snow melt and a mid-February rain fall.

Annual Maintenance schedule for Operations

For a more efficient operation of Operational Services staff has created a monthly task calendar for maintenance, ditching, tree work, sidewalk repairs, grading of shoulders and gravel roads, and capital projects. So far the calendar is complete till the end of July once Asphalt resurfacing tender is finalized and we have the Contractors schedule, staff will be able to finish task calendar to the end of 2022.

February Tenders

Staff has been preparing RFT and RFQ's for the Asphalt resurfacing Program. With staff doing most of the preparation and reconstruction for the paving work staff felt the most cost efficient way to get the required work completed is to operate like a General Contractor breaking the asphalt resurfacing program into 4 tenders to avoid 20% mark ups charges on sub- contractors that would be charged for the work that the asphalt contractor would have to

use to complete the scale of work that the town requires. These tenders are listed on the Biddingo website and consist of.

- RFT 2022-01 Asphalt Paving
- RFQ 2022-10 Asphalt Pulverizing
- RFT 2022-05 Gravel Rehabilitation
- RFT Surface treatment (this is a joint tender with the Town of Penetanguishene to get better rates)

Once these Tenders close in early March staff will prepare recommendation reports for the March council meeting.

Fleet services

Staff has been working to keep winter maintenance equipment in good operating order in the late winter months. Snow removal equipment is starting to show the effects of a long winter season with a number of minor repairs popping up daily keeping our mechanical staff very busy.

They are also working to prepare equipment for the upcoming spring season by doing full service inspections on the townships power broom attachments, and Kubota grass cutting equipment.

Staff has also started preparing an Annual service maintenance calendar for all for all Township vehicles and equipment. Once complete this schedule will be sent to the Leadership Team so they will know when their department's vehicles will need to be at the Operations shop.

Health and Safety Training

- Monthly inspection of Operations Depot including building and vehicle first aid kits and fire extinguishers
- Jason Leeming online Road Patrol training
- Scheduling training for later April early May (Book 7 traffic control, propane safety, working at heights refresher, Transportation of Dangerous Goods, and WHMIS)
- New Operational Procedure being reviewed by GM of Operational Services before implementing for staff review.

Summary of Service provided in January

- 11 Full plowing and sanding
- 6 Partial clean-up arterials and sanding only
- Ripping ice and snow pack arterials and residential streets
- 2 days of opening ditches and culverts drainage concerns

- Large pothole repairs Pair street
- Repairs to equipment for winter operations (conveyor chains, welding of snowploughs, sidewalk equipment repairs blower and sander attachments)

MEETINGS

- Operational Services Committee
- Post Council meeting
- Emergency Control Group
- Leadership Team

TRAINING

The following training/webinars were attended:

- Certified Health and Safety refresher online training

Prepared By:

Date: February 28, 2022

Jody Haourt
Manager of Roads and Fleet Services

Reviewed By:

Date: March 1, 2022

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

Dear Sir,

19 January 2022

Ref: Banners for Veterans Program

Last years kick-off of this program was a huge success and it saw a wave of support from council and the community as well as being featured on regional media.

Our community has truly embraced this program by way of positive comments, encouragement, and participation in this Remembrance Day activity. We believe this program will stand as a testament and will show without any doubt that Tay Township supports their veterans and our Canadian troops.

Based on the positive results of last years 8-week event, a non-profit organization “Banners4Veterans” was formed to grow the program and ensure its sustainability for the future.

The organization has been established with 7 Board members consisting of veterans from the Canadian Armed Forces and the Royal Canadian Mounted Police. The general membership currently numbers 64 which includes residents currently participating in the program.

Banners4Veterans has two main objectives

- Through our website we want to continue to educate on the conflicts that Canadians were involved in. It is through this veteran awareness platform we commemorate our local veterans.
- Our goal is to establish the banner program as a permanent annual event in our township while working to promote the program in other communities across this nation.
 - By continuing to effectively manage the Tay Memorial Banner Program, we continue to give back to our community while celebrating our local veterans through the memorial banner display. The end game is to ensure that every Tay veteran will eventually be commemorated with a memorial banner.

After careful review of last year’s program, we identified an area that we felt the Township/Council could assist the program.

We have some exciting new things planned for the opening ceremony in September, so it is extremely important that we get a firm commitment of what Township/Council is willing to provide to our program. To start the process for next years celebration of our Veterans we have one area that we need to move forward on right away.

We are requesting the council to approve the township to manage and install the banner posts permanently.

Last year the white 4 x 4 posts looked amazing, but there was an issue of stability.

- With two large 2 x 4-foot banners on each post, high winds did cause several of them to be break off at the steel spike just at ground level and posed both a safety and potential hazard to the community.

- This year we redesigned the banner posts with a much stronger 6 x 6 post which will serve our purpose long term and will be no further cause for concern.
- The posts themselves will be provided to the township at no cost by the organization and will be painted white prior to handing them over to the installation crew.
- The Board will assume responsibility for the physical condition of the posts by checking them annually for defects or repainting or replacing them as necessary. Our thoughts would be to follow the townships current inspection process for similar signage.
- With permanent posts in place the Banners4Veterans organization would have an opportunity to create a revenue stream for the banner program making them available to other organizations who may want to use them for advertising purposes to highlight their functions or special events.

We are requesting the permanent installation of 70 posts in total this year along the following 6 streets mentioned below. The posts should be situated as evenly spaced apart as possible to represent the lines of our fallen.

The posts are 16 feet in length, placing 3 feet underground leaving a total of 13 feet above ground. The banners are 4 feet high placing the bottom of the banner at the 9-foot mark which is high enough so as not to obstruct any driver sight lines. This is subject to approval from the Townships Engineering department.

We ask that the posts be placed far enough off the roadway so they are not damaged by the snowplows windrow nor infringe on private property. The streets are as follows:

Waubashene

- Starting at highway 12, going up Pine Street, 10 posts.
- Starting at highway 12, coming in along Sturgeon Road, 10 posts.
- Starting at Marshes Marina turning left on to Coldwater Rd in the direction of Pine St, 10 posts.

Victoria Harbour

- Starting at highway 12, coming in on Park Street, 10 posts.
- Starting at highway 12, coming in along William Street, 10 posts.

Port McNicol

- Starting at highway 12, coming in on Talbot St, 10 posts.
- Starting at highway 12, coming up Triple Bay Road, 10 posts

These town entrances are all highly visible from highway 12 which make them the most logically and most effective choice to display the commemorative banners for the pleasure of residents as well as to announce to travellers that Tay supports our veterans/troops.

It's not only important for our Tay residents to enjoy these beautiful banners its also important for those who travel through our township to see Tay's commitment of our support to veterans.

We respectfully ask that careful consideration be reviewed on this request as our goal is to showcase our townships support and provide the banner program with a professional look. Permanently installed posts would certainly go a long way in helping us achieve that goal.

If further discussion is required, please feel free to contact me.

I thank you for your time and I look forward to a receiving a favourable outcome on this matter.

Lest We Forget.

Christine van Zandbergen, President/CEO

Banners4Veterans

Banners4veterans@rogers.com

705-209-0900

705-549-3181 Ext 2091

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Lest We Forget.

Christine van Zandbergen, President/CEO

Banners4Veterans

Banners4veterans@rogers.com

705-209-0900

705-549-3181 Ext 2091

March 2, 2022

Tay Township
450 Park Street, PO Box 100
Victoria Harbour, Ontario L0K 2A0

Attention: Mayor Walker and members of council

RE: Winter maintenance for all of Arbour Trail in Waubaushene

Hi, my name is Shelley Giesbrecht and I live at 35 Arbour Trail in Waubaushene. I am writing this letter to say my family and I are quite concerned that we do not receive winter maintenance on our end of the road. We are zoned shoreline residential and we should be able to have a commitment from the municipality for safe travel as the rest of our neighbours have on the first half of Arbour Trail as per MTO standards. We rely on not only services from the township but from the County of Simcoe as well. Our garbage truck goes all the way down to the end of Arbour Trail where there is a turn around area as well do other delivery services.

We have ourselves and 3 other neighbours on this stretch of road that are full time residents as well. The municipality owns the road and we currently only receive summer maintenance which for a few years was not being done either.

I realize there is a by law from 1994 stating that the Township would only perform summer maintenance but a lot has changed since 1994 and we are zoned shoreline residential now with full time residents that should have the same opportunity as others to have year round maintenance.

We appreciate everyone's time and look forward to your response.

Thanks,

Shelley Giesbrecht

THE CORPORATION OF THE TOWNSHIP OF TAY

BY-LAW NO. 94-110

Being a by-law to assume a roadway for
maintenance and set a Level of Service

WHEREAS a road allowance located in part of Lot 13, Concession 12 was conveyed to the Township by registered deed in 1941;

AND WHEREAS the Township has maintained part of the roadway in the past by spreading gravel, filling pot holes and grading;

AND WHEREAS the Township has, over the years, established a level of service of "summer maintenance only".

NOW THEREFORE THE MUNICIPAL COUNCIL OF THE CORPORATION OF THE TOWNSHIP OF TAY ENACTS AND BE IT ENACTED AS FOLLOWS:

1. That Portage Trail as shown on Schedule 'A' of this by-law be assumed for summer maintenance by the Township of Tay;
2. That summer maintenance referred to in Section 1 be hereby defined as grading, filling pot holes and spreading gravel;

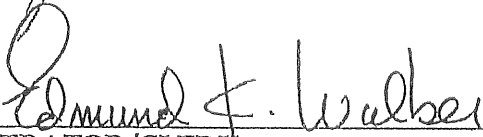
This by-law shall come into force and take effect upon the final passing thereof.

BY-LAW READ A FIRST, SECOND AND THIRD TIME and finally passed this 9th day of November, 1994.

THE CORPORATION OF THE TOWNSHIP OF TAY



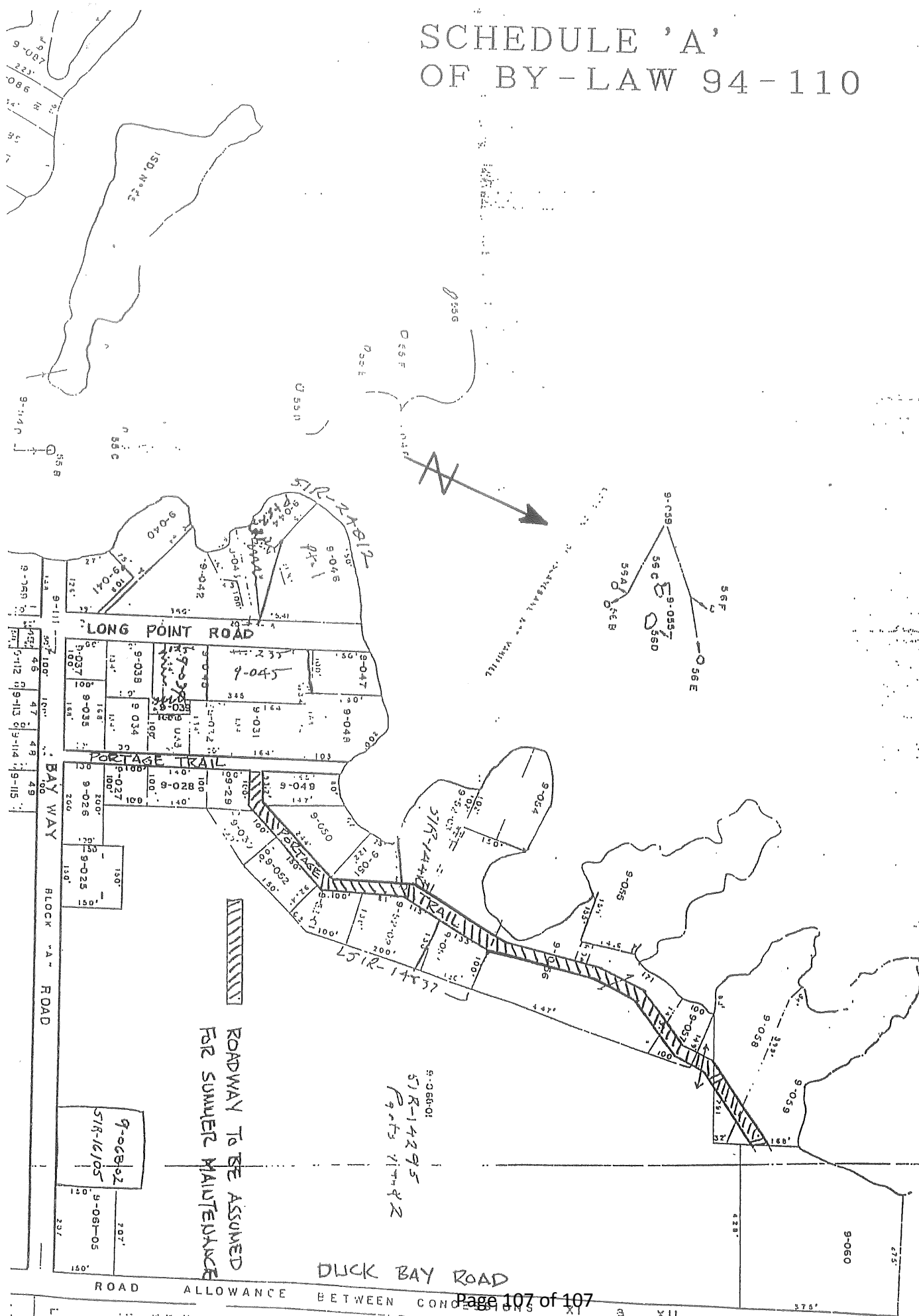
MAYOR



ADMINISTRATOR/CLERK

CAG/rd

SCHEDULE 'A' OF BY-LAW 94-110



ROADWAY TO BE ASSUMED
FOR SUMMER MAINTENANCE

9-068-01
SIR-14295
Parts 1, 2 & 3

DUCK BAY ROAD

ROAD ALLOWANCE BETWEEN CONDUITS