

Agenda

Regular Meeting of Council
Corporation of the Township of The North Shore
Wednesday, April 17th, 2024
6:00 PM

Township of the North Shore is inviting you to a scheduled Zoom meeting.

Join Zoom Meeting

<https://us02web.zoom.us/j/85089367781?pwd=cERsS3FZOEpaZVJCOVJHUWs5aVdWZz09>

Meeting ID: 850 8936 7781

Passcode: 468576

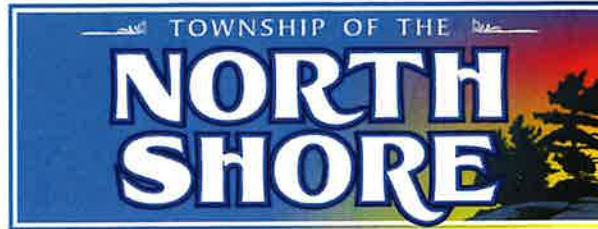
This meeting is being held in a Hybrid setting. Attendees may choose to attend via ZOOM or in person in the Municipal Office Council Chambers located at 1385 Highway 17, Algoma Mills.

1. CALL TO ORDER
2. APPROVAL OF AGENDA
3. DISCLOSURES OF PECUNIARY INTEREST
4. PRESENTATIONS/DELEGATION
 - a) Township Recognition
5. ADOPTION OF MINUTES
 - a) Minutes of the Regular meeting minutes of March 20th, 2024
6. COUNCIL MEMBERS REPORT
 - a) T. Simon - Family Day
7. REPORTS AND MOTIONS OF MUNICIPAL STAFF, COMMITTEES, AND COMMUNICATIONS
 - a) Cameco Cares Day 2024
 - b) Appointment to Recreation Committee
 - c) 1st Quarter Reports 2024
 - d) 1st Quarter Variance Report 2024
 - e) 1st Quarter Property Tax and Water/Wastewater Receivables 2024
 - f) Serpent River and Pronto East Drinking Water Systems Annual and Summary Reports for 2023
 - g) Serpent River Waste Disposal Site Environmental Monitoring Report and Operations Report for 2023
 - h) Waste Management

Consent Agenda

- a) Letter from the Ministry of Finance regarding Municipal Taxation

8. OLD BUSINESS (INCLUDES THE FOLLOWING WRITTEN LETTERS/REPORTS) Nil
9. INTRODUCTION, READING AND CONSIDERATION OF BY-LAWS Nil
10. NOTICES OF MOTION Nil
11. CLOSED SESSION Nil
12. REPORT FROM CLOSED SESSION Nil
13. CONFIRMATORY BY-LAW
By-law 24-19 being a by-law to confirm the proceedings of Council at its meeting held April 17th, 2024,
be read a first, second and third time enacted and passed.
14. ADJOURNMENT



Minutes

Regular Council Meeting
Township of the North Shore
Wednesday, March 20th, 2024
6:00 p.m.
Hybrid Meeting

ATTENDANCE

- Council: Tony Moor - Mayor
Robin Green - Councillor at Large
Richard Welburn - Ward 1 - electronic
Len Menard - Ward 2 - electronic
Tracey Simon - Ward 3
- Staff: Matt Simon, Public Works Manager/Fire Chief
Rachel Schneider, Municipal Clerk/Deputy Treasurer
Craig Davidson, Deputy Treasurer
- Guest: Christ Kirby, TULLOCH

CALL TO ORDER

The Mayor called the meeting to order at 6:00 p.m.

APPROVAL OF AGENDA

RESOLUTION #24-82

Moved by: R. Green

Seconded by: T. Simon

BE IT RESOLVED: That Council for the Corporation of the Township of The North Shore approves the agenda as circulated.

CARRIED

DISCLOSURES OF PECUNIARY INTEREST

PRESENTATIONS/DELEGATION

ADOPTION OF MINUTES

a) Regular meeting minutes of March 6th, 2024

RESOLUTION #24-83

Moved by: T. Simon

Seconded by: R. Green

BE IT RESOLVED: That Council of the Corporation of the Township of the North Shore adopts the Regular meeting minutes of March 6th, 2024.

CARRIED

COUNCIL MEMBERS REPORT

REPORTS AND MOTIONS OF MUNICIPAL STAFF, COMMITTEES AND COMMUNICATION

a) Riverview Road - Geotechnical Report

RESOLUTION #24-84

Moved by: R. Green

Seconded by: T. Simon

BE IT RESOLVED: That Council for the Corporation of the Township of The North Shore receive the staff report as presented regarding the Geotechnical Report for Riverview Road from TULLOCH, and that Council approve the proposed Option 3 for pavement design.

CARRIED

b) 2023 Estimated Closure and Post Closure costs - Serpent River Waste Disposal Site

RESOLUTION #24-85

Moved by: T. Simon

Seconded by: L. Menard

BE IT RESOLVED That Council for the Corporation of the Township of The North Shore receive the 2023 Estimated Closure/Post Closure Costs staff report for the Serpent River Waste Disposal Site for information purposes.

CARRIED

c) Police Services Board - Changes to Composition April 1st, 2024

RESOLUTION #24-86

Moved by: T. Simon

Seconded by: L. Menard

BE IT RESOLVED That Council for the Corporation of the Township of The North Shore accept the adjustment of composition to Board 2 - North Shore East - Blind River Detachment Police Services Board, which consists of one Community Representative and one member of Council from Mississauga First Nation, the Town of Blind River, the Township of The North Shore, Serpent River First Nation, and the Town of Spanish, and that Board 2 - North Shore East - Blind River Detachment Police Services Board have two appointed Provincial representatives.

CARRIED

Consent Agenda

a) Letter from Algoma Public Health regarding merger with Public Health Sudbury & Districts

RESOLUTION #24-87

Moved by: T. Simon

Seconded by: L. Menard

BE IT RESOLVED: That item a, as set out on the Consent Agenda of the March 20th, 2024, Regular meeting of Council, be received for information purposes.

CARRIED

OLD BUSINESS **Nil**

INTRODUCTION, READING, AND CONSIDERATION OF BY-LAWS

- a) By-Law 24-15 being a by-law to adopt the Recruitment and Termination of Volunteer Firefighters Policy for the Corporation of the Township of The North Shore

RESOLUTION #24-88

Moved by: T. Simon

Seconded by: R. Green

BE IT RESOLVED: That Council for the Corporation of the Township of The North Shore approve By-Law 24-15 being a by-law to adopt the Recruitment and Termination of Volunteer Firefighters Policy for the Corporation of the Township of The North Shore be read a first, second and third time enacted and passed.

CARRIED

NOTICES OF MOTION **Nil**

CLOSED SESSION

REPORT FROM CLOSED SESSION

CONFIRMATORY BY-LAW

RESOLUTION # 24-89

Moved By: R. Green

Seconded By: L. Menard

BE IT RESOLVED: That the Council of the Corporation of the Township of The North Shore hereby approve By-Law No. 24-16, Being a By-Law to Confirm the Proceedings of Council at its Regular meeting held March 20th, 2024, be read a first, second and third time, enacted and passed.

CARRIED

ADJOURNMENT

RESOLUTION # 24-90

Moved By: T. Simon

Seconded By: L. Menard

BE IT RESOLVED: That the Corporation of the Township of The North Shore Regular Council meeting of March 20th, 2024, do now adjourn at 6:31 PM to meet again on the 3rd day of April at 6:00 p.m., or at the call of the Chair.

CARRIED

Tony Moor, Mayor

Rachel Jean Schneider, Clerk/Deputy Treasurer

Council Report – TRACEY SIMON – Councillor Ward 3/Deputy Mayor

Council Report

Family Day

Submitted by Councillor Simon

On February 19, 2024, with Council's approval, \$213.21 was spent on hot dogs, buns and condiments to hand out for free for Family Day. Tim Hortons in Blind River generously donated coffee and hot chocolate for the event. A big thank you to them for their ongoing support.

Two donations were made towards the cash prizes offered for the Chilli Contest. First place was Nadia Curtis, winning \$100.00, Second place was Alice Forest, winning \$75.00 and third place was our own Councillor Robin Green winning \$25.00. A big thank you to all who entered.

It was held at the outdoor rink area in Spragge. Approximately 60 people were in attendance. There was some skating on the ice (what little there was due to the warmer weather), face painting, hockey shootout for prizes, sliding, bonfire and a fire truck with some of our volunteer firefighters providing educational material and grab bags for the public.

Thank you to all of our dedicated volunteers, staff, members of Council who helped out and the fire department.

Respectfully submitted,

Councillor Simon

7a)



April 10, 2024

Meeting of April 17th, 2024

Council Report

SUBJECT: CAMECO CARES DAY

RECOMMENDATION: That Council receive the staff report for consideration, and that Council decide which of the provided idea options they would like to see completed for Cameco Cares Day 2024

“Cameco Cares Day” is an event that Cameco holds annually, where their employees work on projects to give back to their surrounding communities. 2024 will be the 19th year for “Cameco Cares Day” and will be held June 7th.

In 2023, Cameco purchased stain for the Algoma Mills mailbox structure and tidied up the Municipal Office flower beds.

For 2024, Public Works is suggested that Council consider one of the following options to forward as a chosen idea for the staff at Cameco to complete on June 7th, 2024:

- Tidy up the flower beds located in several spots at the Municipal Office
- Paint/Stain the Township sign on the Municipal Office’s front lawn
- Paint/Stain the pavilion/any other wooden structures located at Lauzon Beach area
- Paint/Stain the pavilions located at the Causeway area

Council’s chosen idea must be forwarded to and confirmed with Cameco by May 1st, 2024.

Prepared/Submitted by: Rachel Jean Schneider, Municipal Clerk/Deputy Treasurer
Matt Simon, Public Works Manager/Fire Chief



CAMECO CORPORATION

*Blind River Fuel Services
P.O. Box 1539
Blind River, Ontario
Canada P0R 1B0*

*Tel 705.356.1496
Fax 705.356.7772
www.cameco.com*

April 8, 2024

Mayor Tony Moor
Township of the North Shore
P.O. Box 108
Algoma Mills, Ontario
P0R 1A0

#1.1.2

Dear Mayor Moor:

“Cameco Cares Day”

We are pleased to begin planning for our popular annual Cameco Cares Day. This year’s event is scheduled for June 7, 2024. This will be the nineteenth year of the event and our employees look forward to another opportunity to give back to the surrounding communities.

We have decided to again focus our energy on projects in public spaces, where residents of Algoma Mills will be able to enjoy the accomplishments. Our emphasis is on projects that can be completed within the day. Last year our efforts included tidying up flowerbeds in and around the municipal office and donating stain for you community mailbox structure.

We extend our invitation to the Township of the North Shore to submit ideas for projects to be completed in Algoma Mills. Algoma Mills is within close driving distance for our volunteers, so it makes for an ideal work environment.

Please confirm these plans with Tanya Mitchell at 705-576-5902 or tanya_mitchell@cameco.com by May 1, 2024.

Cameco Cares Day is one of our most popular community events, and we look forward to another successful day in 2024.

Sincerely,

A handwritten signature in black ink, appearing to read 'Terry Davis'.

Terry Davis
General Manager, Blind River Operations

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April 10, 2024

Meeting of April 17th, 2024

Council Report

SUBJECT: RECREATION COMMITTEE APPOINTMENT

RECOMMENDATION: That Council receive the staff report for consideration, and that Council approve that Matthew Curtis be appointed to the Recreation Committee for the 2022-2026 Council term

The amended Recreation Committee Terms of Reference were approved by Council on October 18, 2023, and state the following:

"MEMBERSHIP, APPOINTMENT AND TERM

The Recreation Committee may consist of up to six (6) members, including:

- a) One (1) representative from Council.
- b) Up to five (5) representatives as residents of the Township of the North Shore."

There are currently four (4) residents as representatives on the Recreation Committee

Council is asked to consider appointing Matthew Curtis to the following Committees:

- Recreation Committee

Prepared/Submitted by: Rachel Jean Schneider, Municipal Clerk/Deputy Treasurer

7c)

PUBLIC WORKS AND FIRE DEPARTMENT

1st Quarter report, 2024

Project and Activity - PUBLIC WORKS

Staff	Hiring landfill attendant, posting for part time is up.
COVID 19	PPE is still being looked after. Our supply is good.
Road patching	As of April 9th I can not get cold patch until the week of the 22nd.
Culverts/ditching	NA at this time
Trees	Cutting down and removal of trees undertaken as required.
Spragge Rink	Only had ice for a couple days around family day.
Garbage collection	Collection is starting to increase. Seasonal
Docks	Put in in May
Callouts (Alarm)	Hasn't been any call outs for some time. As per office.
Cemetery	Seasonal
Water Treatment Plant	We are moving forward with paperwork and quotes for SRWTP.
Lake Lauzon Beach	Seasonal work will start soon.
Serpent River Landfill Site	A work in progress
Algoma Mills garbage bins	Caught someone placing wrong items at bins
Capital	Listed in budget. Can be discussed.
Emergency Management	We have been keeping in touch via email.
Project Life Saver	NA at this time
Signage	NA at this time

Some Plans Public Works

Roads and Winter Maintenance	We had a very cost effective winter.
Asset Management	Review plan and infrastructure to update Asset Management Plan
Infrastructure	In process
Budget	In process
Landfill Site	In process

Project and Activity - FIRE DEPARTMENT

Training	We entered 2 teams in the North Shore firefighter challenge for the end of April
Recruitment	In process
Partnerships	In process
Serpent River Fire Hall	In process
Equipment Status	As I stated last year, I am requesting we take the Lafrance out of service.
Attendance Reports	In process
Fire Calls	In process
Partnerships	Complete planned partnerships with Huron Shores, Cutler Reserve and Spanish Fire Departments
Renovations	In process
Training	In process

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FINANCEQuarterly Report: January 1, 2024 to March 31, 2024 (to April 4th)Project and Activity

	1st Quarter - 2024	1st Quarter Status
Interim Tax Levy	Bills calculated and sent	Completed
Water Billing	Bills calculated and sent for January and March	Completed
Small Communities Fund (Landfill Vertical Expansion Project)	2024 Progress Report	Completed - Noted that there is a pending application for expansion expected to be made in 2024.
NORDS Grant	Annual Report and Project Information Forms	Completed - forms submitted via the TPON site
OCIF Formula Grant	2024 Initial Report	Completed
ICIP Funding - Waterworks	Progress report was not available on TPON Site	Will complete once appropriate report is available
Tax Adjustments and Supplemental Tax Levies	Have Supplemental Assessment and some tax write-offs waiting until tax rates established for 2024	Ongoing
Monthly Interest (January, February, March)	First of every month (Tax & Water)	Completed
Monthly Balancing (January, February, March)	First of every month (Tax, Water, AP, AR)	Completed
Bank Reconciliation (January, February, March)	To be performed once per month.	Completed
WSIB, CPP, EI, Tax, OMERS (January, February, March)	Monthly Reporting & Remittances.	Completed
GST/HST Return (Q4 for 2023 and Q1 for 2024)	Electronical filing.	Completed
T4 and OMERS Reporting	Required by the end of February.	Completed
Education Levy (Q1 for 2024)	Education Levy Calculation & Remittance for Quarter 1 of 2024 (Due March 31, 2024).	Completed
Commercial Bins (January, February, March, 2024)	Quarterly Invoicing (Q1)	Completed
Accounts Receivable Notices	Issues arrears notices for other miscellaneous receivables.	Ongoing
Vadim iCity Transfer to the Cloud	Accounting Software: Transferring to the Cloud.	Ongoing - Central Square is gathering the necessary information to merge the Accounting Software onto the Cloud.
Audit working papers prepared and working with KPMG for audit completion	Field work completed - working with KPMG to finalize the audit	Ongoing
Variance Reports (Q1)	2024 Q1 Quarterly Variance Report (to compare 2024 estimated Budget to 2024YTD)	Completed

Projected Quarterly Report: April 1, 2024 to June 30, 2024

2nd Quarter - 2024		2nd Quarter Status
Monthly Interest (April, May, June)	First of every month (Tax & Water)	Ongoing
Monthly Balancing (April, May, June)	First of every month (Tax, Water, AP, AR)	Ongoing
Bank Reconciliation (April, May, June)	To be performed once per month.	Ongoing
WSIB, CPP, EI, Tax, OMERS (April, May, June)	Monthly Reporting & Remittances.	Ongoing
Bi-Monthly Water/Sewer Billing (May)	Calculation and issuance of bi-monthly water/sewer bills.	The May/June bills are scheduled to be issued during the first week of May.
GST/HST Return (Q2 for 2024)	Electronical filing. Quarter report due July 31, 2024 (Reporting period: 2024-04-01 to 2024-06-30).	Ongoing
Education Levy (Q2 for 2024)	Education Levy Calculation & Remittance for Quarter 2 of 2024 (Due June 30, 2024). Includes all in-year adjustments.	Ongoing
ICIP Grant - Covid Stream	Reporting and Claim submissions.	Ongoing
ICIP Grant - Green Stream	Reporting and Claim submissions.	Ongoing
Commercial Bins (April, May, June 2024)	Quarterly Invoicing (Q2)	Ongoing
Riverview Road Rehabilitation Project	Council approved the tender for engineering services from Tulloch Engineering. The tender package for the road rehabilitation is to be completed and released to Contractors - report to come on possibility of acquiring long term debt for this project.	Ongoing.
Training/Professional Development	While not a charge to municipality, Deputy Treasurer will be attending the AMCTO Zone 7 Spring Meeting and the AMCTO Conference during the second quarter	Ongoing
Variance Report (Q2)	2024 Q2 Quarterly Variance Report	Ongoing

Asset Management Plan (AMP)	Update the AMP in order to meet the July 1st, 2024 provincial deadline. The updated AMP must include all non-core municipal assets. The current AMP only includes core-assets (which was to be completed by July 1st, 2022). This task will take months to complete and will require a lot of staff time (all staff members are involved with the AMP). Failure to meet the July 1st, 2024 deadline would result in certain provincial and federal Grants to be put on hold. Municipalities can only receive certain grants once they are compliant with all relevant regulations and legislation, including O. Reg. 588/17.	Ongoing
2024 Budget	2024 Budget deliberations and preliminary conversations/review with Council (possibly during the month of November/December of 2024). Review current municipal obligations and services. Provide Council with a proposed budget schedule.	Ongoing
Grant Opportunities	Seek further grant opportunities - Bring report to Council for grant application authorization, if any.	Ongoing

Prepared/Submitted by: Craig Davidson, Deputy Treasurer

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ADMINISTRATION**Quarterly Report: January 1st, 2024 to March 31st, 2024****Project and Activity**

	1st Quarter	Status
Agendas/Minutes	Agendas and Minutes prepared for Council, COA, Rec Committee and PSB meetings - posted onto website and bulletin boards when completed	All meetings are now being held in a Hybrid setting.
Projects	Central Algoma Clerks Association (CACA)	No meetings scheduled this quarter, regular contact kept with group via email
	Lake Lauzon at Capacity	Planner reaching out to Blind River's planner. Next meeting TBD
	Canada Day Celebrations	Canada 5k grant applied for on October 20 2023, awaiting follow up
	Broadband	Fibre to be brought to parts of the Township that do not already have it added - awaiting more information
	2023 Tourism Summit	On March 1st, Council approved that the Township host the 2023 HNCEA Tourism Summit on September 20th 2023 - Township notified that date needs to be changed - date TBD in 2024
Tenders/RFPs	Riverview Road	TULLOCH is actively completing Engineering Services for Riverview Road
	Surplus Land in Serpent River	Council declared 5665 Highway 17 in Serpent River as Surplus Land at the March 6th 2024 meeting - Tender package is being prepared
Policies	Policies reviewed and/or amended and approved by Council through By-law this quarter include: Internal Control Policy, Recruitment and Termination of Volunteer Firefighters Policy	Total Policies reviewed and/or amended and approved by Council between January 1 2024 and March 31 2024: By Resolution - 2, By By-Law - 2
Elections	All tasks for 2022 ELECTION are COMPLETED, completed first step of onboarding for Elections Ontario	Next election is in 2026
Clerk's Training	AMCTO courses attended in February and March	AMCTO courses scheduled for April and May, Zone 7 meeting scheduled for end of April, MMAH training scheduled for May
PSB	Last meeting held October 26, 2023 - April 25 meeting did not have quorum	2024 meetings scheduled for January 25th, April 25, July 25, October 24, 2024 - NEW PSB meetings to be scheduled wen Ministry notifies
AODA	Updating policy & plan as per AODA's recommendation.	Council was sent madatory and legislated training for AODA on October 26, 2023, December 29, 2023 and March 12, 2024 - not yet completed by all Councillors

Project and Activity

	1st Quarter	Status
Staffing	Job advertisement for Temporary Casual Labourer was put out March 19 2024	Council previously approved to hire applicant for up to 24 weeks instead of up to 21 weeks
	Job opening for Temporary Treasurer from November 16 2023 until approximately October 10 2024	Job advertisement out for a Temporary Treasurer position as of November 10 2023. Clerk has assumed the Treasurer's duties. Deputy Treasurer appointed in January to take on some of Treasurer's duties.
Community Safety and Wellbeing	Meeting attended on Oct 31 at 1:15 pm, next meeting date TBD	Community Safety and Wellbeing Plan is with Blind River, Spanish, Thessalon, Huron Shores
Committee of Adjustment	Lake Lauzon At Capacity	Planner reaching out to Blind River's planner. Next meeting TBD
Emergency Management	Training held September 6th, 2023 with Committee - Council and staff are forwarded Covid stats as they come in	
Delegations	No delegations this quarter	No delegations this quarter
Water plants	Council approved engineering project for Serpent River Water Treatment Plant in 2022	David Spacek presented to Council on June 7th, 2023 and was directed to look into and inform the Township of timelines and costs - further information provided to Council, Council deferred motion and awaiting further information
Municipal Office	Office is now Closed to the Public on Wednesdays	Council passed a Resolution to close the Municipal Office to the public in December of 2023. Phones and emails will not be answered and calls/emails will be returned when time allows
	Committees, residents, and groups continue to use Council Chambers for their meetings	Council Chambers available to rent out per fee schedule
Community Round Table	x2 meetings attended	Meetings are scheduled quarterly - next meeting scheduled for April 9, 2024
Recreation Committee and Events	The Committee held 0 meeting this quarter	Events are actively being planned for 2024
	Ward 1 resigned from Recreation Committee as of January 14 2024	Ward 3 was appointed by Council as the new Council representative for the Rec Committee on February 7 2024
	Council approved new Recreation Committee Terms of Reference on October 18, 2023	The Committee includes 1 members of Council and the meetings are held per the Procedure By-Law

Vital Statistics Report

1st Quarter

Animal Control	29 dog tags, 1 cat tag
Fire permits	Burning - 1 daytime, 12 brush burning, 16 recreational
Meetings	16 meetings scheduled - 5 Regular (1 cancelled), 4 Special (1 cancelled), 5 Special Budget (2 Cancelled), 1 Recreation (1 cancelled)
Building Permits	1 permit issued, 1 permit paid for
Cemetery	x1 Interment Rights Purchase, x1 Cremation Plot purchase, x1 Niche purchase from 20 niche columbarium, NO interments
By-Laws Enacted	16 enacted

7d)

2024 OPERATING BUDGET VARIANCE REPORT (Q1)

As of September 30, 2023

- - 300,311.16

Account	BUDGET	YTD	YTD VARIANCE	YTD %	Comments
1-3-1000-1010 TAXATION - Interim Billing	- 1,271,773 -	580,383 -	691,390		Interim Taxes Only - Distribution at Final
1-3-1023-2070 RAILWAYS: PIL	- 18,000 -	18,096	96		
Property Taxes/Payment-in-Lieus	- 1,289,773 -	598,479 -	691,294	53.60%	
1-3-1000-2700 COUNCIL Donations	- -	567	567		
1-3-1000-7255 COUNCIL - Transfer from Reserves	-	-	-		
1-4-1000-1010 COUNCIL - Salaries	74,770	20,296	54,474		
1-4-1000-1110 COUNCIL - Benefits	6,350	3,111	3,239		
1-4-1000-1200 COUNCIL - Travel	3,000		3,000		
1-4-1000-1300 COUNCIL - Seminars & Workshops	5,000	2,247	2,753		
1-4-1000-1305 COUNCIL - Printing & Stationery	-	-	-		
1-4-1000-1320 COUNCIL - Memberships	1,400	1,545	145		
1-4-1000-2050 CNCL- Telephone	2,400	726	1,674		
1-4-1000-2120 COUNCIL - Office Supply	-	-	-		
1-4-1000-21300 COUNCIL - Computer Supply	-	-	-		
1-4-1000-2210 COUNCIL - Legal	15,000	8,828	6,172		Will review budget amounts
1-4-1000-2215 COUNCIL-Integrity Commissioner	2,500	4,248	1,748		
1-4-1000-2700 COUNCIL - Donations	1,000		1,000		
1-4-1000-4020 COUNCIL - Insurance	5,721	3,874	1,847		
1-4-1000-4025 COUNCIL - Audit	3,553		3,553		
1-4-1000-5010 COUNCIL - Miscellaneous	120	99	21		
1-4-1000-5050 COUNCIL - Elections	-	-	-		
1-4-1000-9000 COUNCIL - Transfer to Reserves	4,000	-	4,000		
Council Department	124,814	44,407	80,407	64.42%	

2024 OPERATING BUDGET VARIANCE REPORT (Q1)

As of September 30, 2023

300,311.16

Account	BUDGET	YTD	YTD VARIANCE	YTD %	Comments
1-3-1200-7101 ADMIN- Trailer Licence	2,250	-	2,250		
1-3-1200-7102 ADMIN - Tax Certificates	480	240	240		
1-3-1200-7104 ADMIN - Maps/Copies/Etc.	10	4	6		
1-3-1200-7120 ADMIN - Miscellaneous	4,000	44	3,956		
1-3-1200-7130 ADMIN - Penalties & Interest	15,000	3,214	11,786		
1-3-1200-7133 ADMIN - Stale dated Cheques	-	-	-		
1-3-1200-7136 ADMIN - Investment Revenues	-	-	-		
1-3-1200-7160 ADMIN- Leases	7,473	2,466	5,007		
1-3-1200-7204 ADMIN - Provincial Grant	-	-	-		
1-3-1200-7255 ADMIN - Transfer from Reserves	-	-	-		
1-4-1200-1010 ADMIN - Wages	112,011	15,891	96,120		
1-4-1200-1110 ADMIN - Benefits	27,085	4,390	22,695		
1-4-1200-1115 ADMIN-Consultants	-	17,808	17,808		Budget included with wages and benefits
1-4-1200-1150 Contracted/Professional Services	-	-	-		
1-4-1200-1200 ADMIN - Travel	2,000	70	1,930		
1-4-1200-1205 ADMIN - Janitorial Services	-	-	-		
1-4-1200-1300 ADMIN - Seminars/Workshops	5,000	1,324	3,676		
1-4-1200-1320 ADMIN - Memberships	1,785	814	971		
1-4-1200-2010 ADMIN - Materials/Supplies	2,000	50	1,950		
1-4-1200-2024 ADMIN - Propane	3,500	1,202	2,298		
1-4-1200-2030 ADMIN - Hydro	6,000	1,674	4,326		
1-4-1200-2035 ADMIN - Delivery	-	-	-		
1-4-1200-2045 ADMIN - Janitorial Supplies	500	43	457		
1-4-1200-2050 ADMIN - Telephone	6,000	3,082	2,918		
1-4-1200-2079 ADMIN - PUBLIC WORKS VEHICLE #2	400	-	400		
1-4-1200-2100 ADMIN - Postage	3,400	868	2,532		
1-4-1200-2110 ADMIN - Due & Subscriptions	250	-	250		
1-4-1200-2120 ADMIN - Office Supplies	3,000	254	2,746		
1-4-1200-2130 ADMIN - Computer Expenses	25,000	3,118	21,882		
1-4-1200-2140 ADMIN - Copying Expenses	4,500	919	3,581		
1-4-1200-2210 ADMIN - Legal Fees	5,000	-	5,000		
1-4-1200-2300 ADMIN - Advertising	2,000	-	2,000		
1-4-1200-4020 ADMIN - Insurance	39,780	26,930	12,850		
1-4-1200-4025 ADMIN - Audit	5,083	-	5,083		
1-4-1200-4030 ADMIN - Licenses & Permits	3,000	-	3,000		
1-4-1200-4040 ADMIN - Bank Charges	2,000	386	1,614		
1-4-1200-4045 ADMIN - Cash over/short	-	-	-		
1-4-1200-4046 Cash over/short-Rounding	-	-	-		
1-4-1200-4050 ADMIN - Taxes Written Off	5,000	-	5,000		
1-4-1200-4055 ADMIN - Bad Debts Written Off	-	-	-		
1-4-1200-4056 ADMIN - Municipal Payment-in-Lieu	3,300	-	3,300		
1-4-1200-4057 ADMIN - Mining Land Taxes	1,000	835	165		
1-4-1200-4501 ADMIN - Tax Collection Expenses	-	-	-		
1-4-1200-5010 ADMIN - Miscellaneous	1,000	703	297		
1-4-1200-7140 ADMIN - Building & Lot Maintenance	2,000	672	1,328		
1-4-1200-7800 ADMIN - Assessment Services (MPAC)	18,500	9,058	9,442		
1-4-1200-9000 ADMIN - Transfer to Reserves	-	-	-		
Administration Department	260,881	84,123	176,758	67.75%	

2024 OPERATING BUDGET VARIANCE REPORT (Q1)

As of September 30, 2023

300,311.16

Account	BUDGET	YTD	YTD VARIANCE	YTD %	Comments
1-3-1500-5015 OMPF-Equalization Grant	97,300	23,981	73,319		
1-3-1500-5016 ompf-Nor.Community Grant	94,900	24,134	70,766		
1-3-1500-5017 OMPF-Rural Community Grant	52,500	13,351	39,149		
1-3-1500-5020 OMPF-Northern/Rural Community Gran	95,100	24,184	70,916		
1-3-1500-5031 OMPF-Transitional Assistance	2,800	-	2,800		
Unconditional Grants	342,600	85,650	256,950	75.00%	The Township receives this Ontario Municipal Partnership Fund (OMPF) revenue every quarter.
1-3-2000-7204 FD - Provincial Grant	-	-	-		
1-3-2000-7206 FD - User Fee - Dispatch	1,656	-	1,656		
1-3-2000-7209 FD - Fire Claims - MTO	-	-	-		
1-3-2000-7230 FD - Miscellaneous	200	20	180		
1-4-2000-1010 FD - Wages	19,550	474	19,076		
1-4-2000-1110 FD - Benefits	6,850	1,060	5,790		
1-4-2000-1200 FD - Travel	500	-	500		
1-4-2000-1300 FD - Seminars & Workshops	5,000	2,526	2,474		
1-4-2000-1310 FD - Community Emergency Managem	12,000	3,053	8,947		
1-4-2000-1315 FD - 911 Emergency Service	600	-	600		
1-4-2000-1320 FD - Memberships	450	150	300		
1-4-2000-1325 FD - Dispatch	2,600	103	2,497		
1-4-2000-2010 FD - Materials/Supplies	1,500	920	580		
1-4-2000-2020 FD - Maintenance-Inter 92 Tanker-S/R	1,500	-	1,500		
1-4-2000-2024 FD - Heating Fuel	6,000	2,211	3,789		
1-4-2000-2025 FD - 2005 Pumper	1,500	163	1,337		
1-4-2000-2027 FD - F700 Rapid Attack	1,500	-	1,500		
1-4-2000-2028 FD - ALF Heavy Rescue	-	-	-		
1-4-2000-2030 FD - Hydro	3,500	1,115	2,385		
1-4-2000-2035 FD - Delivery	-	-	-		
1-4-2000-2040 FD - Water/Sewer	1,402	-	1,402		
1-4-2000-2050 FD - Telephone	2,200	674	1,526		
1-4-2000-2079 FD - PW VEHICLE #2	500	-	500		
1-4-2000-2120 FD - Office Supplies	50	-	50		
1-4-2000-2150 FD - Internet Charges	1,343	334	1,009		
1-4-2000-2400 FD - Repairs & Maintenance	800	372	428		
1-4-2000-2450 FD - Protective Gear	3,000	-	3,000		
1-4-2000-4010 FD - Forest Fire Management	1,721	-	1,721		
1-4-2000-4020 FD - Insurance	21,718	16,056	5,662		
1-4-2000-4025 FD - Audit	2,711	-	2,711		
1-4-2000-4030 FD - Licenses	1,300	-	1,300		
1-4-2000-4040 FIRE - Bank Charges	-	-	-		
1-4-2000-5010 FD - Miscellaneous	1,000	-	1,000		
1-4-2000-7130 FD - Equipment Repairs	500	-	500		
1-4-2000-7140 FD - Building & Lot Maintenance	500	-	500		
1-4-2000-7210 FD - Fire Prevention	500	-	500		
1-4-2000-9000 FD - Transfer t Reserves	5,000	-	5,000		
Fire Department	105,439	29,191	76,248	72.31%	

2024 OPERATING BUDGET VARIANCE REPORT (Q1)

As of September 30, 2023

300,311.16

Account	BUDGET	YTD	YTD VARIANCE	YTD %	Comments
1-3-2100-7200 CBO - Building Permits	10,000	10,540	540		Will review budget amount - budget presently exceeded
1-3-2100-7810 CBO - Compliance Certificates	180	60	120		
1-4-2100-1010 CBO - Wages	6,228	279	5,949		
1-4-2100-1110 CBO - Benefits	1,349	75	1,274		
1-4-2100-1225 CBO - CBO Contract	13,500	973	12,527		
1-4-2100-4020 CBO - Insurance	528	357	171		
1-4-2100-4025 CBO - Audit	374	-	374		
Building Department	11,799	8,916	20,715	175.57%	
1-3-2200-7230 BLEO - Miscellaneous	900	550	350		
1-4-2200-1010 BLEO - Wages	8,175	1,079	7,096		
1-4-2200-1110 BLEO - Benefits	1,334	155	1,179		
1-4-2200-1200 BLEO - Travel	500	-	500		
1-4-2200-1300 BLEO - Seminars & Workshops	500	-	500		
1-4-2200-2010 BLEO - Materials/Supplies	500	13	487		
1-4-2200-1210 BLEO - Enforcement Officer	-	-	-		
1-4-2200-1230 BLEO - Animal Control	-	12	12		
1-4-2200-4020 BLEO - Insurance	747	506	241		
1-4-2200-4025 BLEO - Audit	526	-	526		
By-Law Department	11,382	1,215	10,167	89.33%	
1-3-2300-7204 ROADS - Provincial Grants	-	-	-		
1-3-2300-7230 RD - Miscellaneous	-	200	200		
1-4-2300-1010 RD - Wages	25,846	8,105	17,741		
1-4-2300-1110 RD - Benefits	8,637	2,456	6,181		
1-4-2300-1235 RDS - Winter Maintenance	2,000	376	1,624		
1-4-2300-1320 RD - Memberships	1,812	834	978		
1-4-2300-2010 RD - Materials/Supplies	5,000	219	4,781		
1-4-2300-2024 RD - Propane	2,600	1,165	1,435		
1-4-2300-2030 RD - Hydro	1,300	300	1,000		
1-4-2300-2035 RD - Delivery Charges	-	-	-		
1-4-2300-2060 RD - Bridges & Culverts	2,500	-	2,500		
1-4-2300-2062 RD - Ditching	3,000	-	3,000		
1-4-2300-2063 RD - Patching	2,500	-	2,500		
1-4-2300-2064 RD - Sweeping	1,000	-	1,000		
1-4-2300-2065 RD - Shoulder Maintenance	1,000	-	1,000		
1-4-2300-2066 RD - Resurfacing/Grading	1,000	-	1,000		
1-4-2300-2068 RD - Culvert Thawing	1,500	-	1,500		
1-4-2300-2069 RD - Safety Devices	500	-	500		
1-4-2300-2070 RD - Snow Plowing	-	3	3		
1-4-2300-2075 RD - Sanding & Salting	14,000	2,364	11,636		
1-4-2300-2077 RD - John Deere Backhoe	5,000	-	5,000		
1-4-2300-2078 RD - Yellow Plow Truck 2002	12,000	2,462	9,538		
1-4-2300-2079 RD - P.W. VEHICLE #2	7,200	1,970	5,230		
1-4-2300-2081 RD - P.W. Vehicle	1,000	1,377	377		
1-4-2300-4020 RD - Insurance	8,571	5,802	2,769		
1-4-2300-4025 RD - Audit	4,407	-	4,407		
1-4-2300-4030 RD - License/Permits	1,300	-	1,300		
1-4-2300-7130 RD - Equipment Repairs	250	177	73		
1-4-2300-7140 RD - Building & Lot Maintenance	-	-	-		
1-4-2300-9000 RD - Transfer to Reserves	-	-	-		
1-4-2310-2030 F - Street Lighting Hydro	3,800	642	3,158		
1-4-2310-7130 F - Equipment Maintenance	2,000	-	2,000		
Roads/Street Light Department	119,723	28,052	91,671	76.57%	

2024 OPERATING BUDGET VARIANCE REPORT (Q1)

As of September 30, 2023

300,311.16

Account	BUDGET	YTD	YTD VARIANCE	YTD %	Comments
1-3-2500-5300 POL - Provincial Offences Fines	-	455	455		
1-3-2500-7205 POL - Provincial Grants - R.I.D.E.	5,516	-	5,516		
1-4-2500-1010 POL - Salaries	2,806	1,114	1,692		
1-4-2500-1110 POL - Benefits	607	301	306		
1-4-2500-1220 POL - Policing	116,576	39,407	77,169		
1-4-2500-2800 POL - R.I.D.E. Program	6,500	6,435	65		
Police Department	120,973	46,802	74,171	61.31%	
1-3-4020-7204 LF - PROVINCIAL GRANTS	-	-	-		
1-3-4020-7230 LF - Miscellaneous	15,000	3,492	11,508		Includes Landfill Tipping Fees.
1-4-4020-1010 LF - Wages	20,197	4,449	15,748		
1-4-4020-1110 LF - Benefits	3,361	740	2,621		
1-4-4020-1240 LF - Garbage Collection	48,151	7,822	40,329		
1-4-4020-1250 LF - Garbage Compaction & Burial	7,800	113	7,687		
1-4-4020-1300 LF - Seminars/Workshops	500	-	500		
1-4-4020-2010 LF - Materials/Supplies	1,000	171	829		
1-4-4020-2030 LF - Hydro	700	214	486		
1-4-4020-2079 LF - PW VEHICLE #2	500	-	500		
1-4-4020-2310 LF - Environmental 3R's	750	77	827		
1-4-4020-2320 LF - Monitoring	75,000	-	75,000		
1-4-4020-2400 LF - Repairs & Maintenance	1,000	-	1,000		
1-4-4020-4020 LF - Insurance	6,708	4,541	2,167		
1-4-4020-4025 LF - Audit	3,391	-	3,391		
1-4-4020-5010 LF - Miscellaneous	100	-	100		
1-4-4020-7130 LF - Equipment Repairs	3,500	-	3,500		
1-4-4020-7140 LF - Building & Lot Maintenance	2,000	-	2,000		
1-4-4020-9000 LF - Transfer to Reserves	30,000	-	30,000		
Landfill Department	189,658	14,481	175,177	92.36%	
1-4-5000-2325 HSS - Social Assistance	342,600	81,537	261,063		
1-4-5000-2330 HSS - Public Health	22,546	-	22,546		
1-4-5000-2335 HSS-Dr. Recruitment	6,000	5,830	170		
Health/Social Services	371,146	87,367	283,779	76.46%	

2024 OPERATING BUDGET VARIANCE REPORT (Q1)

As of September 30, 2023

300,311.16

Account	BUDGET	YTD	YTD VARIANCE	YTD %	Comments
1-3-7010-7202 REC - Federal Grants	6,300	-	6,300		Canada Summer Job & Canada Day Grants. PLOG (Library Grant).
1-3-7010-7204 REC - Provincial Grants	2,007	-	2,007		
1-3-7010-7500 REC- Recreation Committee Revenue	3,000	100	2,900		
1-4-7010-1010 REC - Wages	64,124	8,524	55,600		
1-4-7010-1110 REC - Benefits	12,489	2,845	9,644		
1-4-7010-1300 REC - Seminars & Workshops	500	-	500		
1-4-7010-2010 REC - Materials/Supplies	3,000	-	3,000		
1-4-7010-2030 REC - Hydro	2,100	624	1,476		
1-4-7010-2050 REC - Telephone	687	176	511		
1-4-7010-2079 REC - PW VEHICLE #2	5,700	245	5,455		
1-4-7010-2081 REC - P.W.VEHICLE	3,900	356	3,544		
1-4-7010-2090 REC - Rinks Maintenance	500	-	500		
1-4-7010-2091 REC - Parks Maintenance	2,000	-	2,000		
1-4-7010-2092 REC - Trails Maintenance	1,000	-	1,000		
1-4-7010-2093 REC - Docks Maintenance	1,000	-	1,000		
1-4-7010-2120 REC - Office Supplies	50	-	50		
1-4-7010-2300 REC - Advertising	350	331	19		
1-4-7010-2400 REC - Repairs & Maintenance	1,000	-	1,000		
1-4-7010-2450 REC - Protective Gear	200	-	200		
1-4-7010-4020 REC - Insurance	14,258	9,652	4,606		
1-4-7010-4025 REC - Audit	1,695	-	1,695		
1-4-7010-4030 REC - Licenses & Permits	-	-	-		
1-4-7010-4060 REC - Library Contribution	2,007	-	2,007		
1-4-7010-5010 REC - Miscellaneous	700	-	700		
1-4-7010-7130 REC - Equipment Repairs	750	-	750		
1-4-7010-7500 REC - Recreation Committee	4,000	331	3,669		
Recreation Department	110,703	22,984	87,719	79.24%	
1-3-8010-7230 PLN - Miscellaneous	-	-	-		
1-3-8010-7816 PLN - OP/Zoning Amendments	-	-	-		
1-3-8010-7255 PLN Transfer from Reserves	10,000	-	10,000		
1-4-8010-1010 PLN - Wages	11,841	1,671	10,170		
1-4-8010-1110 PLN - Benefits	2,563	452	2,111		
1-4-8010-1300 PLN - Seminars & Workshops	-	-	-		
1-4-8010-2010 PLN - Materials/Supplies	-	-	-		
1-4-8010-2095 PLN - Newsletter	-	-	-		
1-4-8010-2300 PLN - Advertising	-	-	-		
1-4-8010-4020 PLN - Insurance	698	472	226		
1-4-8010-4025 PLN - Audit	379	-	379		
1-4-8010-5010 PLN - Miscellaneous	-	-	-		
1-4-8010-7810 PLN - Professional Fees	14,000	4,783	9,217		
Planning Department	19,481	7,378	12,103	62.13%	
1-4-8020-1010 TELE - Wages	1,437	279	1,158		
1-4-8020-1110 TELE - Benefits	311	75	236		
1-4-8020-2130 TELE - Computer Services	-	-	-		
1-4-8020-2150 TELE - Internet Charges	5,420	392	5,028		
1-4-8020-4020 TELE - Insurance	105	71	34		
1-4-8020-4025 TELE - Audit	76	-	76		
Telecommunications	7,349	817	6,532	88.88%	

2024 OPERATING BUDGET VARIANCE REPORT (Q1)

As of September 30, 2023

- - 300,311.16

Account	BUDGET	YTD	YTD VARIANCE	YTD %	Comments
1-3-8030-7230 INFO - Miscellaneous	- 2,500	-	- 2,500		
1-3-8030-8015 INFO - Tourist Info Centre (EL Share)	- 6,000	-	- 6,000		
1-4-8030-1010 INFO - Wages	1,814	279	1,535		
1-4-8030-1110 INFO - Benefits	392	75	317		
1-4-8030-2030 INFO - Hydro	2,500	626	1,874		
1-4-8030-2079 INFO - PW VEHICLE #2	-	-	-		
1-4-8030-4020 INFO - Insurance	4,764	3,225	1,539		
1-4-8030-4025 INFO - Audit	25	-	25		
1-4-8030-7140 INFO - Building & Lot Maintenance	-	-	-		
Tourist Information Centre (Deer Trail)	995	4,205	- 3,210	-322.61%	Invoices for these revenues are issued at the end of the year.
1-3-8040-4900 WTR - Water Revenues	- 45,733	- 15,596	- 30,137		
1-3-8040-4940 WTR - Connection Fees	- 60	-	- 60		
1-3-8040-7130 Penalties & Interest - SR	- 400	- 330	- 70		
1-4-8040-1010 SRW-Wages	19,886	2,515	17,371		
1-4-8040-1110 SRW - Benefits	4,979	1,079	3,900		
1-4-8040-1260 SRW - Plant Operations	56,631	9,299	47,332		
1-4-8040-1300 SRW - Seminars/Workshops	500	-	500		
1-4-8040-2010 SRW - Materials/Supplies	-	69	- 69		
1-4-8040-2024 SRW - Propane	350	54	296		
1-4-8040-2030 SRW - Hydro	13,800	7,487	6,313		
1-4-8040-2050 SRW - Telephone	1,400	273	1,127		
1-4-8040-2079 SRW - PW VEHICLE #2	415	-	415		
1-4-8040-2165 SRW - Pipes & Connections	10,000	1,904	8,096		
1-4-8040-4020 W-DEL - Insurance	3,768	2,551	1,217		
1-4-8040-4025 SRW - Audit	3,120	-	3,120		
1-4-8040-4030 SRW -license & Permits	-	-	-		
1-4-8040-4040 SRW - Bank Charges	1,200	268	932		
1-4-8040-4080 SRW - Discounts to Users	900	252	648		
1-4-8040-5010 SRW - Miscellaneous	300	-	300		
1-4-8040-7130 SRW - Equipment Maintenance	500	-	500		
1-4-8040-7140 SRW - Building & Lot Maintenance	300	81	219		
Serpent River Water	71,856	9,906	61,950	86.21%	
1-3-8050-4900 WTR - Water Revenues	- 27,428	- 8,901	- 18,527		
1-3-8050-4940 WTR - Connection Fees	-	-	-		
1-3-8050-7130 Penalties & Interest - PE	- 100	- 155	- 55		
1-3-8051-4910 SEWR - Sewer Revenues	- 7,343	- 2,383	- 4,960		
1-4-8050-1010 PEW -Wages	19,886	2,515	17,371		
1-4-8050-1110 PEW - Benefits	4,979	590	4,389		
1-4-8050-1260 PEW - Contracts	64,560	10,601	53,959		
1-4-8050-1300 PEW - Seminars/Workshops	500	-	500		
1-4-8050-2024 PEW- Propane	380	-	380		
1-4-8050-2030 PEW - Hydro	12,000	2,247	9,753		
1-4-8050-2050 PEW - Telephone	2,500	764	1,736		
1-4-8050-2079 PEW - PW VEHICLE #2	415	-	415		
1-4-8050-2165 PEW - Pipes & Connections	2,000	-	2,000		
1-4-8050-4020 PEW - Insurance	4,630	3,134	1,496		
1-4-8050-4025 PEW - Audit	2,542	-	2,542		
1-4-8050-4030 PEW - Licenses & Permits	200	-	200		
1-4-8050-4040 PEW - Bank Charges	1,200	257	943		
1-4-8050-4080 PEW - Discount to Users	640	247	393		
1-4-8050-5010 PEW- Miscellaneous	200	-	200		
1-4-8050-7130 PEW - Equipment Maintenance	-	-	-		
1-4-8050-7140 PEW - Building & Lot Maintenance	500	81	419		
1-4-8051-1260 PEW - Sewer Contract	20,387	3,348	17,039		
Pronto East Water/Sewer	102,648	12,345	90,303	87.97%	

2024 OPERATING BUDGET VARIANCE REPORT (Q1)

As of September 30, 2023

- - 300,311.16

Account	BUDGET	YTD	YTD VARIANCE	YTD %	Comments
1-3-8060-7230 CEM - Miscellaneous	- 500	-	500		
1-3-8060-7500 CEM - Cemetery Plot Sales	- 870	1,800	930		
1-3-8060-7255 CEM - Transfer from Reserve	- 3,500	-	3,500		
1-4-8060-1010 CEM - Wages	2,844	474	2,370		
1-4-8060-1110 CEM - Benefits	684	144	540		
1-4-8060-1300 CEM - Courses/Seminars	-	-	-		
1-4-8060-2010 CEM - Materials/Supplies	500	-	500		
1-4-8060-2079 CEM - PW VEHICLE #2	300	-	300		
1-4-8060-3010 CEM - Equipment Rentals	500	-	500		
1-4-8060-4020 CEM - Insurance	950	643	307		
1-4-8060-4025 CEM - Audit	118	-	118		
1-4-8060-7140 CEM - Building & Lot Maintenance	2,500	-	2,500		
Cemetery Department	3,526	539	4,065	115.29%	
	-	300,311	300,311		

7ej



April 11, 2024

Meeting of April 17th, 2024

Council Report

SUBJECT: Tax & Water/Wastewater Receivables (1st QTR 2024)

RECOMMENDATION: That Council receive the Property Tax and Water/Wastewater Receivables staff report for information purposes.

PROPERTY TAX RECEIVABLES

Tax Receivables as of:	Amount:
March 31 st , 2024	\$384,336.86

Current Year Taxes:	\$313,726.83 (403 properties)
1 Yr in Arrears:	\$62,085.12 (83 properties)
2 Yrs and more in Arrears:	\$8,524.91 (13 properties)
Total Receivables:	\$384,336.86

WATER/WASTEWATER RECEIVABLES

Water/Wastewater Receivables as of:	Amount:
March 31 st , 2024	\$12,330.61 (26 properties)

Late payment charges are applied every month on all accounts that are in arrears for both property taxes (1.25%) and water/wastewater (2%).

Prepared/Submitted by: Rachel Jean Schneider, Clerk/Deputy Treasurer









SERPENT RIVER
DRINKING WATER SYSTEM
WATERWORKS # 260005919

ANNUAL & SUMMARY
REPORTS 2023

Introduction

This Annual and Summary Report has been prepared in accordance with both Schedule 22 and section 11 of Ontario Regulation 170/03. In this manner, the requirements by regulation for each report have been consolidated into a single document. This Report is intended to brief the ownership and consumers of the Serpent River Drinking Water System on the system’s performance over the past calendar year January 1 to December 31, 2023.

This report encompasses all elements as required by O. Reg. 170/03. Each section explains what is required for the category Small Municipal Residential DWS (as it pertains to the Serpent River DWS) and how limits were met or if shortfalls were revealed. The last section contains a list of tables and definitions of terms identified in this report.

 System Description	Page 3
 Water Quality	Page 4
 Compliance	Page 7
 Flows	Page 8
 Report Availability	Page 10
 Tables, Definition of Terms App: A/B	Page 11

System Description

The Serpent River water treatment plant is rated as a Class 1 Water Treatment subsystem and categorized under O. Reg. 170/03 as a Small Municipal Residential system. The treatment plant draws water from the Serpent River. Historical records show that the plant was downstream from mining activity that is no longer in production. Previous treatment included ion exchange filters that have since been replaced with slow sand filters.

The plant uses a slow sand filtration process and chlorination to achieve the primary treatment requirements. Two slow sand filters operate at a combined rate of 243 cubic meters/day. Alkalinity is adjusted by flowing the filtered water through crushed dolomite limestone. Water is disinfected using sodium hypochlorite in the clear well. Chlorine residual is measured at the end of the treatment process, at the high lift discharge at the end of the clear well.

Water enters the distribution system from the 124 cubic meter clear well. Pressure is maintained by four (4) hydro pneumatic tanks, also located at the water treatment plant. The distribution system is a mix of materials, the new parts of the system use PVC piping. Blow-off valves are located throughout the distribution system for flushing purposes.

Chemicals

Chemicals utilized at the Serpent River Treatment plant during 2023 include:

- Sodium hypochlorite for primary and secondary disinfection

2023 Expenditures

During the year of 2023, expenses were incurred to maintain treatment and distribution functions:

- ESA
- SAI Global external audits
- Chlorine analyzer
- High lift pump intake lines replaced
- Leak detection services
- Distribution repairs

2023 Drinking Water System Changes

Form 1 – Record of Watermains Authorized as a Future Alteration

- n/a

Form 2 – Record of Minor Modification or Replacements

- Chlorine analyzer replacement

Form 3 – Record of addition, modification or replacement of equipment discharging a contaminant of concern to the atmosphere

- n/a

Water Quality

Microbiological Sampling and Testing

Sampling is conducted bi-weekly for the DWS at the frequencies and locations identified by Schedule 11 of O. Reg. 170/03 for Small Municipal Residential Systems.

Table 1: Microbiological sampling requirements

Location	Sample Analysis	# samples	Frequency
Raw	EC, TC	1 sample	monthly
Treated	N/A	0	-
Distribution	EC, TC, HPC-25%	1 sample	bi-weekly

Serpent River DWS raw water samples are collected from the raw water header. Treated samples are collected from a sample tap from the treated discharge header prior to distribution. Distribution samples are collected from the furthest point in the distribution system at the Firehall. Other locations may be sampled as required.

Table 2: Microbiological Sample Results

Type	# samples	EC (range)	TC (range)	# samples	HPC (range)
Raw	12	0 - 120	17 - 2000	n/a	n/a
Distribution	28	0	0	28	0 - 10

All distribution sample results are non-detect for E. coli and total coliform confirming the safety of water supply.

Operational Checks and Testing

Operational testing is completed as per Schedules 6 & 7 of O. Reg. 170/03 for Small Municipal Residential Systems. Checks and testing are completed on site at the water treatment facility by licensed operators. Continuous monitoring analyzers (collecting 5-minute readings) are utilized for measurement of filter turbidity and chlorine residuals.

Table 3: Monthly Filter Turbidity Results

Month	Filter A		Filter B		Monthly Filter Efficiency
	Avg (NTU)	Range (NTU)	Avg (NTU)	Range (NTU)	
January	0.122	0.066 - 0.341	0.109	0.070 - 0.629	100
February	0.162	0.062 - 0.314	0.096	0.050 - 0.187	100
March	0.161	0.060 - 0.262	0.085	0.061 - 0.164	100
April	0.141	0.044 - 0.649	0.081	0.050 - 0.434	100
May	0.183	0.039 - 0.664	0.059	0.047 - 0.351	100
June	0.042	0.035 - 0.155	0.053	0.041 - 0.732	100
July	0.042	0.037 - 0.945	0.054	0.045 - 1.061	99.99
August	0.039	0.036 - 0.098	0.056	0.047 - 0.865	100
September	0.045	0.034 - 0.415	0.059	0.045 - 0.518	100
October	0.041	0.034 - 0.154	0.067	0.045 - 0.392	100
November	0.228	0.043 - 0.899	0.101	0.060 - 0.488	100
December	0.247	0.091 - 0.623	0.077	0.060 - 0.515	100

Filter Efficiency is monitored by tracking the turbidity readings above and below 1.0 NTU during filter run time. Serpent River maintained filter compliance each month above 95%, the required limit for slow sand filtration to achieve necessary filtration credits for primary disinfection.

Table 4: Chlorine Residuals

Month	Average Chlorine Residual (mg/L)	Chlorine Residual Range (mg/L)
January	1.30	0.47 - 2.17
February	1.22	0.35 - 1.85
March	1.22	0.82 - 1.61
April	1.24	0.55 - 1.77
May	1.30	0.92 - 1.74
June	1.25	0.41 - 1.65
July	1.24	0.59 - 2.61
August	1.33	0.51 - 2.19
September	1.21	0.44 - 1.67
October	1.34	0.47 - 1.77
November	1.25	0.49 - 1.98
December	1.30	0.73 - 1.66

Chlorine residuals are continuously monitored, and data is recorded on 5-minute intervals.

Chemical Sampling and Testing

Schedule 13 of O. Reg. 170/03 outlines chemical sampling regiments for Small Municipal Residential systems. Schedules 23 (inorganics) and 24 (organics) are collected every 60 months as well as sodium and fluoride. This system requires quarterly sampling for nitrites/nitrates THMs, and HAAs. Schedule 15.1 outlines the requirements for semi-annual lead testing (2 periods per year). Serpent River’s lead sampling follows the reduced sampling requirements every third year and was last conducted in 2022.

Table 5: Schedule 23 - Inorganics

Parameter	Sample Date	Result Value (µg/L)	Units	ODWS
Antimony	07-Jun-19	<0.60	µg/L	6
Arsenic	07-Jun-19	<1.0	µg/L	10
Barium	07-Jun-19	23	µg/L	1000
Boron	07-Jun-19	<50	µg/L	5000
Cadmium	07-Jun-19	<0.10	µg/L	5
Chromium	07-Jun-19	<1.0	µg/L	50
Fluoride	16-Oct-19	0.026	mg/L	1.5
Mercury	07-Jun-19	<0.10	µg/L	1
Selenium	07-Jun-19	<1.0	µg/L	50
Sodium	16-Oct-19	8.55	mg/L	20
Uranium	07-Jun-19	<2.0	µg/L	20

All results for inorganic parameters are within the maximum acceptable concentrations (MAC) of the Ontario Drinking Water Quality Standards as defined in O. Reg. 169/03.

Table 6: Nitrite/ Nitrate Results

Date	ODWS	03-Jan-23	11-Apr-23	3-Jul-23	Q4
Unit	mg/L	mg/L	mg/L	mg/L	mg/L
Nitrite	1.0	<0.05	<0.05	<0.05	-
Nitrate	10	0.07	0.17	0.09	-

All quarterly results for Nitrites and Nitrates are well below ODWS.

Table 7: Disinfection By-product Results (THM/HAA)

Date	ODWS	Q1	Q2	Q3	Q4	RAA
Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
THM	100	62.7	82.6	67.87	119	83.4
HAA	80	114.3	204.3	54.67	268.5	160.4

ODWS established a MAC of 80 for HAAs effective January 1, 2020

Table 8: Schedule 24 – Organics

Parameter	Date	Result	Unit	ODWS
Alachlor	07-Jun-19	<0.10	µg/L	5
Atrazine + N-dealkylated metabolites	07-Jun-19	<0.20	µg/L	5
Azinphos-methyl	07-Jun-19	<0.10	µg/L	20
Benzene	07-Jun-19	<0.50	µg/L	1
Benzo(a)pyrene	07-Jun-19	<0.010	µg/L	0.01
Bromoxynil	07-Jun-19	<0.20	µg/L	5
Carbaryl	07-Jun-19	<0.20	µg/L	90
Carbofuran	07-Jun-19	<0.20	µg/L	90
Carbon Tetrachloride	07-Jun-19	<0.20	µg/L	5
Chlorpyrifos	07-Jun-19	<0.10	µg/L	90
Diazinon	07-Jun-19	<0.10	µg/L	20
Dicamba	07-Jun-19	<0.20	µg/L	120
1,2-Dichlorobenzene	07-Jun-19	<0.50	µg/L	200
1,4-Dichlorobenzene	07-Jun-19	<0.50	µg/L	5
1,2-Dichloroethane	07-Jun-19	<0.50	µg/L	5
1,1-Dichloroethylene	07-Jun-19	<0.50	µg/L	14
Dichloromethane	07-Jun-19	<5.0	µg/L	50
2,4 Dichlorophenol	07-Jun-19	<0.30	µg/L	900
2,4-Dichlorophenoxy acetic acid	07-Jun-19	<0.20	µg/L	100
Diclofop-methyl	07-Jun-19	<0.20	µg/L	9
Dimethoate	07-Jun-19	<0.10	µg/L	20
Diquat	07-Jun-19	<1.0	µg/L	70
Diuron	07-Jun-19	<1.0	µg/L	150

Parameter	Date	Result	Unit	ODWS
Glyphosate	07-Jun-19	<5.0	µg/L	280
Malathion	07-Jun-19	<0.10	µg/L	190
2-Methyl-4-Chlorophenoxyacetic Acid (MCPA)	07-Jun-19	<0.20	µg/L	100
Metolachlor	07-Jun-19	<0.10	µg/L	50
Metribuzin	07-Jun-19	<0.10	µg/L	80
Monochlorobenzene	07-Jun-19	<0.50	µg/L	80
Paraquat	07-Jun-19	<1.0	µg/L	10
Pentachlorophenol	07-Jun-19	<0.50	µg/L	60
Phorate	07-Jun-19	<0.10	µg/L	2
Picloram	07-Jun-19	<0.20	µg/L	190
Polychlorinated Byphenols (PCB)	07-Jun-19	<0.035	µg/L	3
Prometryne	07-Jun-19	<0.10	µg/L	1
Simazine	07-Jun-19	<0.10	µg/L	10
Terbufos	07-Jun-19	<0.20	µg/L	1
Tetrachloroethylene	07-Jun-19	<0.50	µg/L	10
2,3,4,6-Tetrachlorophenol	07-Jun-19	<0.50	µg/L	100
Triallate	07-Jun-19	<0.10	µg/L	230
Trichloroethylene	07-Jun-19	<0.50	µg/L	5
2,4,6-Trichlorophenol	07-Jun-19	<0.50	µg/L	5
Trifluralin	07-Jun-19	<0.10	µg/L	45
Vinyl Chloride	07-Jun-19	<0.20	µg/L	1

All results for the required organic sampling of schedule 24 are below the MAC. Parameters exceeding half MAC are noted in Table 9.

Table 9: Organics - Sampling exceeding half MAC

Date of Sample	Parameter	Result Value (ug/L)
3-Jan	THM	80.6
3-Jan	HAA	130
16-Jan	HAA	85
2-Feb	HAA	164
13-Mar	THM	62.9
13-Mar	HAA	78
11-Apr	THM	90.7
11-Apr	HAA	340
01-May	THM	90.1
01-May	HAA	191
19-Jun	THM	67
19-Jun	HAA	82
03-Jul	THM	68
03-Jul	HAA	57
14-Aug	THM	62
14-Aug	HAA	59
18-Sep	THM	73.6
18-Sep	HAA	48
13-Nov	THM	127
13-Nov	HAA	355
4-Dec	THM	111
4-Dec	HAA	182

Table 10: Community Lead Sampling Results

Location Type	Alkalinity, mg/L	pH
Distribution monitoring	20	8.1

Serpent River’s water system is eligible for plumbing exemption; however, alkalinity and pH are required for analysis in the distribution every winter and summer collection periods and Lead in distribution every 3 years for the winter and summer periods.

Compliance

Adverse Water Quality Incidents

During 2023, the Serpent River DWS reported four incidents of adverse water quality.

Table 11: Adverse Water Quality Incidents

Date	Incident Reported
Quarter 1	HAA (RAA) exceeding the MAC of 80ug/L
Quarter 2	HAA (RAA) exceeding the MAC of 80ug/L
Quarter 3	HAA (RAA) exceeding the MAC of 80ug/L
Quarter 4	HAA (RAA) exceeding the MAC of 80ug/L

Annual Drinking Water System Inspection

The annual DWS inspection took place on September 13, 2023, by MECP Drinking Water inspector Parise Drolet. Zero non-conformances and zero additional recommendations and best practice were identified.

The DWS received a final inspection rating of 100 %.

Flows

The permit to take water authorizes the municipality to draw water from the Serpent River at a rate not to exceed 243m³/d.
The maximum daily volume taken was 212.8m³, 87.6% of the permit limit.

Municipal Drinking Water Licence: 282-101 specifies a maximum intake capacity of 243 m³/d.
The max flow rate reported was 131.5 m³/d, 54.1 % of the rated capacity.

The Serpent River WTP treated and distributed a total of 28.1 ML (or 28,153.2) during the year of 2023. The average day treated flow demand was 77.1 m³/d, and maximum day flow 131.5m³/d was on June 2, 2023.

Chart 1: 5-year Flow Comparison

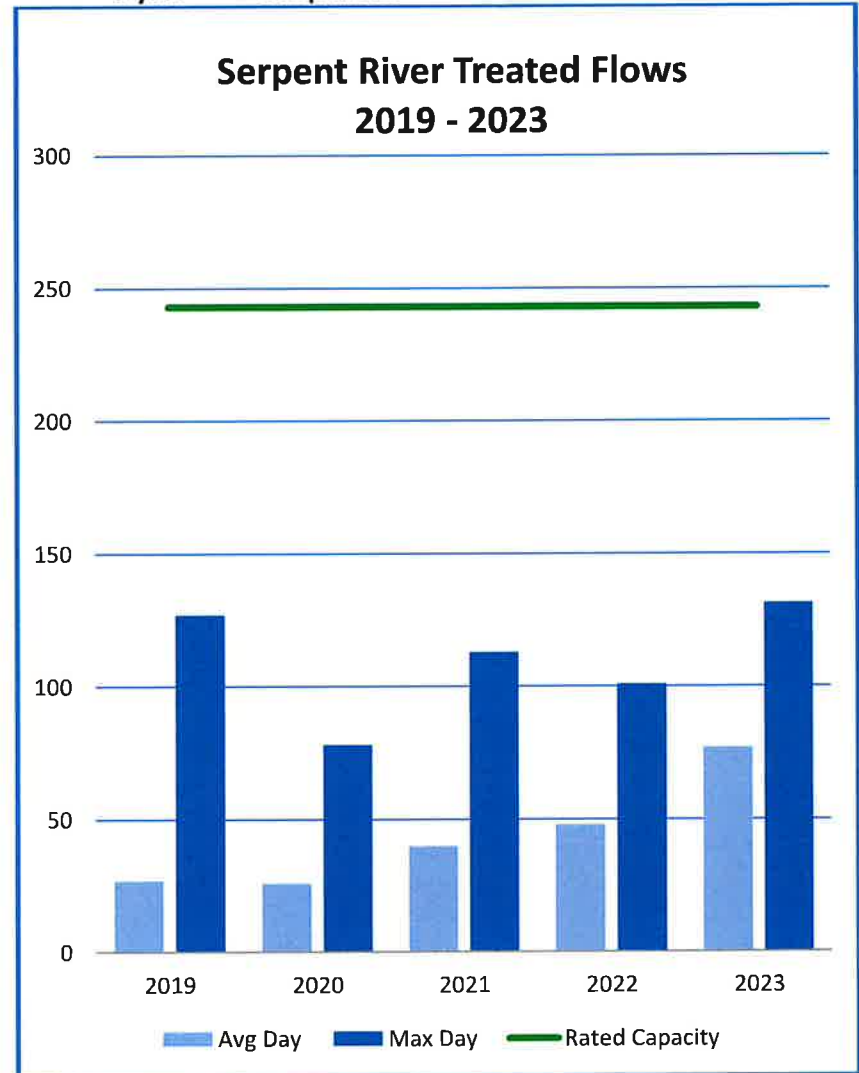
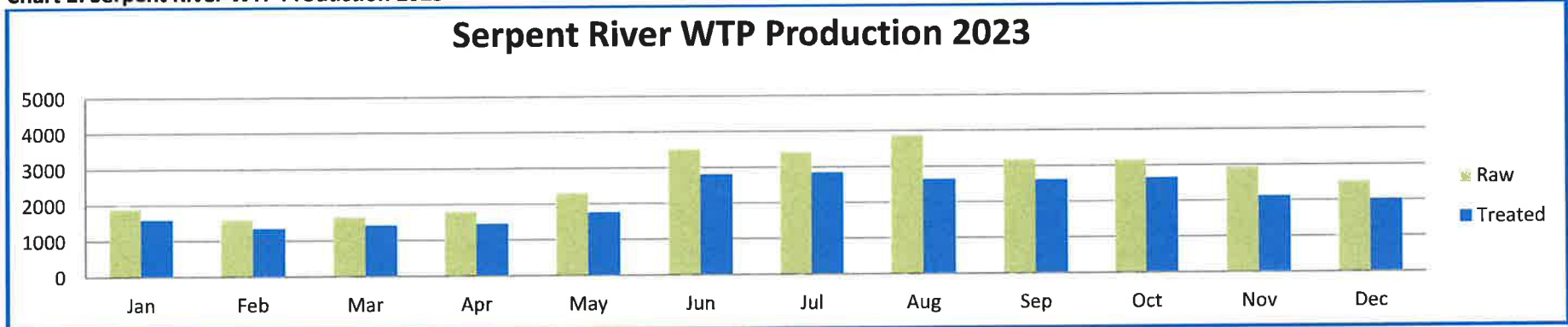


Table 12: Raw and Treated Water Production 2023

2023 Month	Raw Water Flows					Treated Water Flows			
	Raw Water (m ³)	Minimum Day (m ³ /d)	Maximum Day (m ³ /d)	Average Day (m ³ /d)	% Max. Flow Day of PTTW	Treated Water (m ³)	Minimum Day (m ³ /d)	Maximum Day (m ³ /d)	Average Day (m ³ /d)
January	1,919.9	41.0	101.1	61.9	41.6	1,600.1	47.2	81.7	51.6
February	1,620.3	0.0	107.8	57.9	44.4	1,352.2	45.2	52.4	48.3
March	1,684.8	0.0	88.0	54.3	36.2	1,441.5	43.5	49.6	46.5
April	1,828.3	0.0	106.5	60.9	43.8	1,472.0	44.7	53.4	49.1
May	2,334.3	36.6	121.2	75.3	49.9	1,777.0	50.0	107.2	57.3
June	3,537.5	26.4	184.7	117.9	76.0	2,823.6	63.3	131.5	94.1
July	3,445.0	64.7	158.1	111.1	65.1	2,857.5	59.4	119.4	92.2
August	3,909.8	60.7	212.8	126.1	87.6	2,655.5	59.4	103.1	85.7
September	3,201.8	36.7	179.6	106.7	73.9	2,617.2	58.1	103.3	87.2
October	3,175.6	72.8	150.8	102.4	62.1	2,664.8	83.8	89.4	86.0
November	2,954.5	35.6	174.9	98.5	71.9	2,130.6	35.3	90.7	71.0
December	2,607.1	47.8	119.8	84.1	49.3	2,105.7	65.5	71.5	67.9

Chart 2: Serpent River WTP Production 2023



Report Availability

Annual Report

Section 11 of O. Reg. 170/03 defines that this Annual Report must be given, without charge, to every person who requests a copy. Effective steps must also be taken to advise users of water from the system that copies of the report are available, without charge, and of how a copy may be obtained. This Annual Report shall be made available for inspection by the public at the Township Office.

Township of the North Shore
1385 Hwy 17, P.O. Box 108,
Algoma Mills, ON
P0R 1A0

Summary Report

This Summary report for The Serpent River Drinking Water System for the period of January 1st to December 31st, 2023, has been prepared in accordance to Schedule 22 of O. Reg. 170/03.

In accordance with Schedule 22 of O. Reg. 170/03, this Summary Report has been provided to the Township of the North Shore.

Tables, Definition of Terms

Appendix A: List of Tables/ Charts

Table 1:	Microbiological sampling requirements
Table 2:	Microbiological Sample Results
Table 3:	Monthly Filter Turbidity Results
Table 4:	Treated Chlorine Residuals
Table 5:	Schedule 23 - Inorganics
Table 6:	Nitrite/ Nitrate Results
Table 7:	Disinfection By-product Results (THM/HAA)
Table 8:	Schedule 24 - Organics
Table 9:	Organics - Sampling exceeding half MAC
Table 10:	Community Lead Sampling Results
Table 11:	Adverse Water Quality Incidents
Table 12:	Raw and Treated Water Production 2023
Chart 1:	5-year Production Comparison
Chart 2:	Serpent River WTP Production 2023

Appendix B: Definition of Terms

Acronym	Definition
AWQI	Adverse water quality incident
DWS	Drinking water system
EC	E. Coli
HAA	Haloacetic acids
HPC	Heterotrophic plate count
MAC	Maximum Acceptable Concentration
m ³	Cubic metres
m ³ /d	Cubic metres per day
mg/L	Milligram per litre (part per million)
ML	Megalitre (1,000 m ³)
NTU	Nephelometric turbidity unit
ODWS	Ontario Drinking Water Standards
O. Reg. 170/03	Ontario Regulation 170/03
PTTW	Permit to take water
SCADA	Supervisory control and data acquisition
TC	Total coliforms
THM	Trihalomethane
µg/L	Microgram per litre (part per billion)
WD	Water distribution
WT	Water treatment
WTP	Water treatment plant



7A







**PRONTO EAST
DRINKING WATER SYSTEM
WATERWORKS # 260007491**

**ANNUAL & SUMMARY
REPORTS 2023**

Introduction

This Annual and Summary Report has been prepared in accordance with both Schedule 22 and section 11 of Ontario Regulation 170/03. In this manner, the requirements by regulation for each report have been consolidated into a single document. This Report is intended to brief the ownership and consumers of the Pronto East Drinking Water System on the system’s performance over the past calendar year January 1 to December 31, 2023.

This report encompasses all elements as required by O. Reg. 170/03. Each section explains what is required for the category Small Municipal Residential DWS (as it pertains to the Pronto East DWS) and how limits were met or if shortfalls were revealed. The last section contains a list of tables and definitions of terms identified in this report.

	System Description	Page 3
	Water Quality	Page 4
	Compliance	Page 7
	Flows	Page 8
	Report Availability	Page 10
	Tables, Definition of Terms App: A/B	Page 11

System Description

The Pronto East Water Treatment Plant is rated as a Class 1 Water Treatment subsystem and is categorized under O. Reg. 170/03 as a Small Municipal Residential system. The raw water supply for the Pronto East subdivision of the Township of the North Shore is obtained from the North Channel of Lake Huron.

The WTP is supplied with raw water from Lake Huron through a 32 meter long, 300 mm diameter polyethylene intake pipe with a screened intake structure. The raw water flows into the wet well by gravity. Raw water is pumped via one of the three high lift pumps to the treatment plant.

Raw water is pre-treated using strainers equipped with 20micron filters to remove any large raw water debris. Raw water then passes through a singer valve to lower pressure prior to passing through two trains of (6) ultrafiltration membrane units. Primary disinfection is completed utilizing (6) ultra-violet irradiation (UV) units and addition of sodium hypochlorite also for secondary disinfection. Six pressure tanks provide storage and flow balancing for the pumps. The water is then routed through a contact loop, ensuring adequate contact time for the CT of the disinfection process, prior to discharge to the distribution system. The design rated capacity of the water treatment plant is 80m³/day.

Chemicals

Chemicals utilized at the Pronto East Treatment plant during 2023 include:

- Sodium Hypochlorite for primary and secondary disinfection

2023 Expenditures

During the year of 2023, expenses were incurred to maintain treatment and distribution functions:

- ESA
- SAI Global External Audits
- UV lamps, quartz sleeves and sensors

2023 Drinking Water System Changes

Form 1 – Record of Watermains Authorized as a Future Alteration

- n/a

Form 2 – Record of Minor Modification or Replacements

- n/a

Form 3 – Record of addition, modification or replacement of equipment discharging a contaminant of concern to the atmosphere

- n/a

Water Quality

Microbiological Sampling and Testing

Sampling is conducted weekly for the DWS at the frequencies and locations identified by Schedule 11 of O. Reg. 170/03 for Small Municipal Residential Systems.

Table 1: Microbiological sampling requirements

Location	Sample Analysis	# samples	Frequency
Raw	EC, TC	1 sample	monthly
Treated	N/A	0	-
Distribution	EC, TC, HPC-25%	1 sample	bi-weekly

Pronto East’s raw and treated water samples are collected from WTP sample sink that is equipped with pump from the raw water header. Distribution samples are collected from either of the two sampling stations or from residential dwelling during the winter months.

Table 2: Microbiological Sample Results

Type	# samples	EC (range)	TC (range)	# samples	HPC (range)
Raw	12	0	0 - 15	n/a	n/a
Distribution	27	0	0	27	0 - 90

All distribution sample results are non-detect for E. coli and total coliform confirming the safety of water supply.

Operational Checks and Testing

Operational testing is completed as per Schedules 6 & 7 of O. Reg. 170/03 for Small Municipal Residential Systems. Checks and testing are completed on site at the water treatment facility by licensed operators. Continuous monitoring analyzers (collecting 5-minute readings) are utilized for measurement of filter turbidity and chlorine residuals.

Table 3: Monthly Filter Turbidity Results

Month	Train 1 Avg (NTU)	Train 2 Avg (NTU)	Range (NTU)	Monthly Filter Efficiency
January	0.020	0.020	0.016 - 0.082	100
February	0.024	0.022	0.004 - 0.067	100
March	0.022	0.020	0.016 - 0.026	100
April	0.022	0.020	0.016 - 0.029	100
May	0.023	0.022	0.016 - 0.061	100
June	0.024	0.022	0.019 - 0.119	100
July	0.024	0.023	0.016 - 0.032	100
August	0.025	0.025	0.019 - 0.045	100
September	0.026	0.023	0.00 - 0.083	100
October	0.024	0.022	0.019 - 0.048	100
November	0.023	0.022	0.019 - 0.026	100
December	0.022	0.022	0.019 - 0.082	100

Filter Efficiency is monitored by tracking the turbidity readings above and below 0.10 NTU during filter run time. Pronto East maintains filter compliance each month above 99.0%, the required limit for membrane filtration to achieve necessary filtration credits for primary disinfection.

Table 4: Treated Chlorine Residuals

Month	Average Chlorine Residual (mg/L)	Chlorine Residual Range (mg/L)
January	1.13	0.25 - 2.46
February	1.11	0.08 - 3.11
March	1.01	0.31 - 2.82
April	0.91	0.28 - 1.94
May	1.07	0.47 - 2.87
June	1.09	0.50 - 2.11
July	1.11	0.41 - 1.82
August	1.15	0.72 - 1.56
September	1.04	0.68 - 1.46
October	1.24	1.02 - 1.56
November	1.17	0.88 - 1.42
December	1.13	0.39 - 1.45

Chlorine residuals are continuously monitored, and data is recorded in real time.

Chemical Sampling and Testing

Schedule 13 of O. Reg. 170/03 outlines chemical sampling regiments for Small Municipal Residential systems. Schedules 23 (inorganics) and 24 (organics) are collected every 60 months as well as sodium and fluoride. This system requires quarterly sampling for Nitrites/Nitrates, THMs and HAAs. Schedule 15.1 outlines the requirements for semi-annual lead testing (2 periods per year). Pronto East’s lead sampling follows the reduced sampling requirements every third year.

Table 5: Schedule 23 - Inorganics

Parameter	Sample Date	Result Value (µg/L)	Units	ODWS
Antimony	07-Jun-19	<0.60	µg/L	6
Arsenic	07-Jun-19	<1.0	µg/L	10
Barium	07-Jun-19	13	µg/L	1000
Boron	07-Jun-19	<50	µg/L	5000
Cadmium	07-Jun-19	<0.10	µg/L	5
Chromium	07-Jun-19	<1.0	µg/L	50
Fluoride	16-Oct-19	0.04	mg/L	1.5
Mercury	07-Jun-19	<0.10	µg/L	1
Selenium	07-Jun-19	<1.0	µg/L	50
Sodium	16-Oct-19	7.23	mg/L	20
Uranium	07-Jun-19	<2.0	µg/L	20

All results for inorganic parameters are within the maximum acceptable concentrations (MAC) of the Ontario Drinking Water Quality Standards as defined in O. Reg. 169/03. No result is above the half MAC.

Table 6: Nitrite/ Nitrate Results

Date	ODWS	03-Jan-23	11-Apr-23	02-Jul-23	Q4
Unit	mg/L	mg/L	mg/L	mg/L	mg/L
Nitrate	10	0.17	0.13	0.15	-
Nitrite	1.0	<0.05	<0.05	<0.05	-

All quarterly results for Nitrites and Nitrates are well below ODWS.

Table: Disinfection By-products Results (THM/HAA)

Date	ODWS	Q1	Q2	Q3	Q4	RAA
Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
THM	100	52.3	107.7	88.3	54.9	75.8
HAA	80	80.7	165.7	93.7	53.5	98.4

ODWS established a MAC of 80 for HAAs effective January 1, 2020.

Table 7: Schedule 24 – Organics

Parameter	Date	Result	Unit	ODWS
Alachlor	07-Jun-19	<0.10	µg/L	5
Atrazine + N-dealkylated metabolites	07-Jun-19	<0.20	µg/L	5
Azinphos-methyl	07-Jun-19	<0.10	µg/L	20
Benzene	07-Jun-19	<0.50	µg/L	1
Benzo(a)pyrene	07-Jun-19	<0.010	µg/L	0.01
Bromoxynil	07-Jun-19	<0.20	µg/L	5
Carbaryl	07-Jun-19	<0.20	µg/L	90
Carbofuran	07-Jun-19	<0.20	µg/L	90
Carbon Tetrachloride	07-Jun-19	<0.20	µg/L	5
Chlorpyrifos	07-Jun-19	<0.10	µg/L	90
Diazinon	07-Jun-19	<0.10	µg/L	20
Dicamba	07-Jun-19	<0.20	µg/L	120
1,2-Dichlorobenzene	07-Jun-19	<0.50	µg/L	200
1,4-Dichlorobenzene	07-Jun-19	<0.50	µg/L	5
1,2-Dichloroethane	07-Jun-19	<0.50	µg/L	5
1,1-Dichloroethylene	07-Jun-19	<0.50	µg/L	14
Dichloromethane	07-Jun-19	<5.0	µg/L	50
2-4 Dichlorophenol	07-Jun-19	<0.30	µg/L	900
2,4-Dichlorophenoxy acetic acid	07-Jun-19	<0.20	µg/L	100
Diclofop-methyl	07-Jun-19	<0.20	µg/L	9
Dimethoate	07-Jun-19	<0.10	µg/L	20
Diquat	07-Jun-19	<1.0	µg/L	70
Diuron	07-Jun-19	<1.0	µg/L	150

Parameter	Date	Result	Unit	ODWS
Diuron	07-Jun-19	<1.0	µg/L	150
Glyphosate	07-Jun-19	<5.0	µg/L	280
Malathion	07-Jun-19	<0.10	µg/L	190
2-Methyl-4-Chlorophenoxyacetic Acid (MCPA)	07-Jun-19	<0.20	µg/L	100
Metolachlor	07-Jun-19	<0.10	µg/L	50
Metribuzin	07-Jun-19	<0.10	µg/L	80
Monochlorobenzene	07-Jun-19	<0.50	µg/L	80
Paraquat	07-Jun-19	<1.0	µg/L	10
Pentachlorophenol	07-Jun-19	<0.50	µg/L	60
Phorate	07-Jun-19	<0.10	µg/L	2
Picloram	07-Jun-19	<0.20	µg/L	190
Polychlorinated Byphenols (PCB)	07-Jun-19	<0.035	µg/L	3
Prometryne	07-Jun-19	<0.10	µg/L	1
Simazine	07-Jun-19	<0.10	µg/L	10
Terbufos	07-Jun-19	<0.20	µg/L	1
Tetrachloroethylene	07-Jun-19	<0.50	µg/L	30
2,3,4,6-Tetrachlorophenol	07-Jun-19	<0.50	µg/L	100
Triallate	07-Jun-19	<0.10	µg/L	230
Trichloroethylene	07-Jun-19	<0.50	µg/L	5
2,4,6-Trichlorophenol	07-Jun-19	<0.50	µg/L	5
Trifluralin	07-Jun-19	<0.10	µg/L	45
Vinyl Chloride	07-Jun-19	<0.20	µg/L	1

All results for the required organic sampling of schedule 24 are below the MAC. Parameters exceeding half MAC are noted in Table 8.

Table 8: Organics - Sampling exceeding half MAC

Date of Sample	Parameter	Result Value (ug/L)
03-Jan-23	THM	51.2
03-Jan-23	HAA	57
02-Feb-23	HAA	78
13-Mar-23	THM	66.2
13-Mar-23	HAA	107
11-Apr-23	THM	94.1
11-Apr-23	HAA	193
1-May-23	THM	117
1-May-23	HAA	162
19-Jun-23	THM	112
19-Jun-23	HAA	142
02-Jul-23	THM	99
02-Jul-23	HAA	135
14-Aug -23	THM	68
14-Aug -23	HAA	82
18-Sep-23	THM	97.8
18-Sep-23	HAA	64
13-Nov -23	HAA	57
12-Dec-23	THM	68.4
12-Dec-23	HAA	50

Table 9: Community Lead Sampling Results

Location Type	Alkalinity, mg/L	pH
Distribution monitoring	35	7.4

Pronto East subdivision’s water system is eligible for plumbing exemption; however, alkalinity and pH are required for analysis in the distribution every winter and summer collection periods and Lead in distribution every 3 years for the winter and summer periods.

Compliance

Adverse Water Quality Incidents

During 2023, the Pronto East DWS reported 5 incidents of adverse water quality.

Table 10: Adverse Water Quality Incidents

Date	Incident Reported
11-Jan-23	Loss of Distribution Pressure (due to PLC fault)
Quarter 1	HAA (RAA) exceeding MAC of 80 ug/L
Quarter 2	HAA (RAA) exceeding MAC of 80 ug/L
Quarter 3	HAA (RAA) exceeding MAC of 80 ug/L
Quarter 4	HAA (RAA) exceeding MAC of 80 ug/L

Annual Drinking Water System Inspection

The annual DWS inspection took place on Sept 13, 2023, by MECP Drinking Water inspector Parise Drolet.

The final inspection report noted zero non-compliances with a final inspection rating of 100%.

Flows

The Permit to Take Water authorizes the municipality to draw water from Lake Huron at a rate not to exceed 100m³/d.

The maximum daily volume taken was 26.9 m³, 27% of the permit limit.

Municipal Drinking Water Licence: 282-102 specifies a maximum intake capacity of 80m³/d.

The max flow rate reported was 26.2 m³/d, 33% of the rated capacity.

The Pronto East WTP treated and distributed a total of 3.6 ML (or 3,577 m³) during the year of 2023. The average day treated flow demand was 9.8 m³/d, and maximum day flow was 26.2 m³/d on May 7, 2023.

Chart 1: 5-year Production Comparison

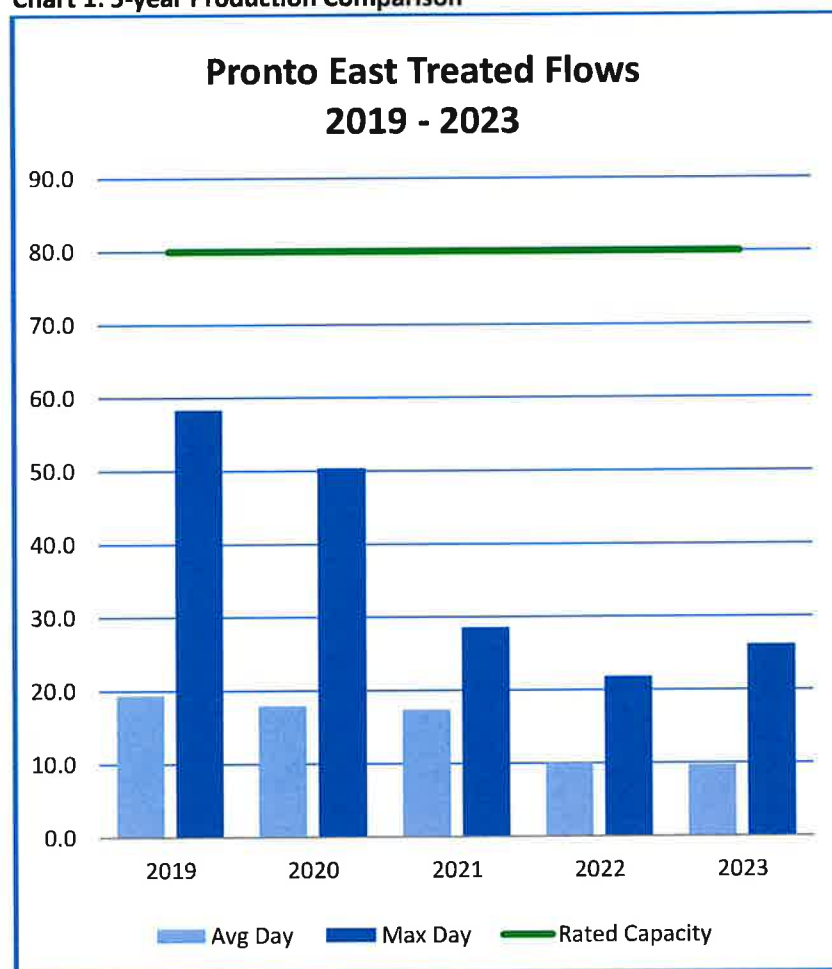
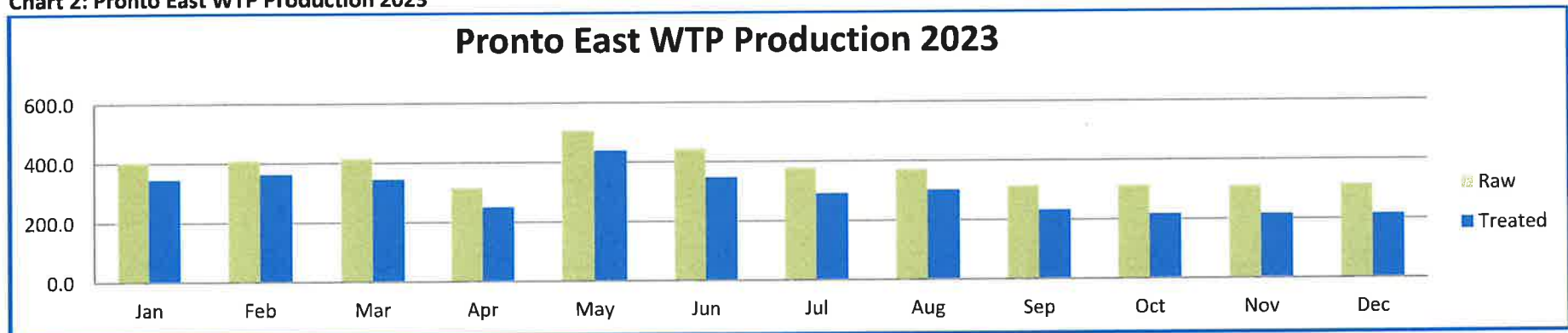


Table 11: Raw and Treated Water Production 2023

2023	Raw Water Flows					Treated Water Flows				
	Raw Water (m ³)	Minimum Day (m ³ /d)	Maximum Day (m ³ /d)	Average Day (m ³ /d)	% Max. Flow Day of PTTW	Treated Water (m ³)	Minimum Day (m ³ /d)	Maximum Day (m ³ /d)	Average Day (m ³ /d)	% Max Flow Day of Rated Capacity
January	405.8	7.5	19.7	13.1	19.7	345.7	5.2	18.9	11.2	23.6
February	413.2	10.4	19.2	14.8	19.2	363.7	8.2	19.2	13.0	24.0
March	418.4	12.1	16.4	13.5	16.4	345.7	9.8	14.5	11.2	18.1
April	318.6	8.1	14.9	10.6	14.9	250.9	5.8	12.7	8.4	15.9
May	509.7	11.4	25.9	16.4	25.9	440.4	7.9	26.4	14.2	33.0
June	446.5	10.7	26.9	14.9	26.9	348.8	6.5	23.1	11.6	28.9
July	381.4	9.8	20.4	12.3	20.4	292.8	6.2	18.4	9.4	23.0
August	374.5	838.0	22.8	12.1	22.8	303.2	5.8	21.3	9.8	26.6
September	316.5	8.0	14.3	10.5	14.3	232.8	5.2	12.0	7.8	15.0
October	317.0	8.9	14.4	10.2	14.4	218.7	5.6	11.7	7.1	14.6
November	313.2	9.4	12.0	10.4	12.0	216.6	6.0	8.9	7.2	11.1
December	318.3	9.2	12.2	10.3	12.2	217.6	5.8	9.4	7.0	11.8

Chart 2: Pronto East WTP Production 2023



Report Availability

Annual Report

Section 11 of O. Reg. 170/03 defines that this Annual Report must be given, without charge, to every person who requests a copy. Effective steps must also be taken to advise users of water from the system that copies of the report are available, without charge, and of how a copy may be obtained. This Annual Report shall be made available for inspection by the public at the Township Office.

Township of the North Shore
1385 Hwy 17, P.O. Box 108,
Algoma Mills, ON
P0R 1A0

Summary Report

This Summary report for The Pronto East Drinking Water System for the period of January 1st to December 31st, 2023, has been prepared in accordance to Schedule 22 of O. Reg. 170/03.

In accordance with Schedule 22 of O. Reg. 170/03, this Summary Report has been provided to the Township of the North Shore.

Tables, Definition of Terms

Appendix A: List of Tables/ Charts

Table 1:	Microbiological sampling requirements
Table 2:	Microbiological Sample Results
Table 3:	Monthly Filter Turbidity Results
Table 4:	Treated Chlorine Residuals
Table 5:	Schedule 23 – Inorganics
Table 6:	Nitrite/ Nitrate Results
Table 7:	Disinfection By-products Results (THM/HAA)
Table 8:	Schedule 24 – Organics
Table 9:	Organics - Sampling exceeding half MAC
Table 10:	Adverse Water Quality Incidents
Table 11:	Raw and Treated Water Production 2023
Chart 1:	5-year Production Comparison
Chart 2:	Pronto East WTP Flows 2023

Appendix B: Definition of Terms

Acronym	Definition
AWQI	Adverse water quality incident
DWS	Drinking water system
EC	E. Coli
HAA	Haloacetic acids
HPC	Heterotrophic plate count
MAC	Maximum Acceptable Concentration
m ³	Cubic metres
m ³ /d	Cubic metres per day
mg/L	Milligram per litre (part per million)
ML	Megalitre (1000 m ³)
NTU	Nephelometric turbidity unit
ODWS	Ontario Drinking Water Standards
O. Reg. 170/03	Ontario Regulation 170/03
PTTW	Permit to take water
SCADA	Supervisory control and data acquisition
TC	Total coliforms
THM	Trihalomethane
µg/L	Microgram per litre (part per billion)
WD	Water distribution
WT	Water treatment
WTP	Water treatment plant

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Serpent River Waste Disposal Site 2023 Environmental Monitoring Report

Township of The North Shore

Project Number: 60526314

March 2024

452 Pages



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March 25, 2024

Project #
60526314

Subject: Serpent River Waste Disposal Site 2023 Environmental Monitoring Report

Dear Ms. Schneider:

We are pleased to present the 2023 environmental monitoring report for the Serpent River Waste Disposal Site. This report includes our results, conclusions and recommendations based on the environmental monitoring program completed at the site in 2023, as well as available historical information.

Sincerely,
AECOM Canada Ltd.

Spencer Bootsma, B.Sc., P.Geo.
Environmental Geoscientist
Spencer.Bootsma@aecom.com

Encl.

9. Conclusions

Based on our findings we provide the following conclusions:

- a) The bedrock topography varies considerably across the WDS with outcropping bedrock adjacent to thick deposits of soil. The surficial geology at the WDS was found to be complex with lacustrine varved clay interbedded with sand layers. Based on the site geology, the MMM 1995 Hydrogeological Report suggests the sand unit present at surface in the vicinity of the fill area underlies the layers of clay toward the south end of the site as the bedrock becomes deeper.
- b) Based on groundwater elevation data collected at the WDS, groundwater flow was inferred to be south/southeast. Upward hydraulic gradients between the shallow at deep wells were noted at the nested locations OW15-I/OW15-II, OW16-I/OW16-II and OW17-I/OW17-II along the southern/eastern site boundary.
- c) No residential water well users were found to be located immediately downgradient of the Serpent River WDS. The closest residential well was determined to be located approximately 300 m west of the WDS.
- d) The 2023 groundwater sampling results continue to indicate that the monitors most affected by leachate at the WDS are OW3-4 and OW4-7, as leachate indicator parameters generally have higher concentrations at these wells compared to the other on-site monitors. The leachate strength at the site appears to be weak based on low concentrations of chloride, sodium and sulphate. At the on-site monitoring wells (OW1-6R, OW3-4, OW4-7, OW6-10, OW7-4 and OW9-6), no health-related parameters were found to be above the ODWS. Only aesthetic parameters DOC, iron and manganese had exceedances of the ODWS in 2023. At the boundary wells (OW14-I, OW15-I, OW15-II, OW16-I, OW16-II, OW17-I and OW17-II) no health related parameters were above the ODWS, only aesthetic parameters iron and manganese were found to exceed their applicable ODWS criteria. Based on an assessment of the groundwater and surface water data, manganese is believed to be naturally elevated in the soils at the WDS.
- e) Minor detections of VOC compounds benzene, chlorobenzene and chloroethane were noted in groundwater in 2023, which were below the applicable ODWS. All other VOC compounds were below the laboratory detection limits.
- f) The RUG groundwater compliance assessment indicated that health related parameters were found to be well below the RUG. The only parameters above the RUG criteria were aesthetic parameters DOC, manganese and TDS. Based on the sampling data, the landfill does not appear to be impacting groundwater quality beyond the site boundary.
- g) Seepage originating at the toe of the landfill re-infiltrates into the ground before reaching the hydro corridor, resulting in no overland surface water connection between SW-1 and SW-2. Surface water at SW-2 and SW-2B in the forest south of the landfill is interpreted as localized groundwater upwelling and no defined channel is present at these locations. Water at SW-2 appears to re-infiltrate downstream before reaching SW-2B. In November 2023, SW-2 had no flow and in December it was frozen. Flow was present at SW-2B in November and December 2023 and was a trickle on both occasions. Water quality at SW-2B had iron and boron elevated above the PWQO in 2023 (boron was below the CWQG). At surface water station SW-5, located downstream of where water from the site boundary stations SW-2B and SW-4B enters the roadside ditch, leachate indicator iron exceeded the PWQO/CWQG and had a similar iron concentration to station SW-10 located upstream of the WDS. In addition, boron was not elevated above the PWQO at SW-5. The water quality at SW-4B was found to be better than at background station SW-10.

These results indicate that water entering the roadside ditch at SW-2B and SW-4B is not causing further impairment to water in the ditch compared to SW-10. At SW-6, located downstream of SW-5, SW-9 and Highway 17, leachate parameter concentrations were generally similar to those at SW-5, with iron being the only parameter to exceed the PWQO/CWQG at SW-6 in 2023. The maximum iron concentration at SW-6 was similar to concentrations at SW-9 and SW-10 upstream of the WDS. Water quality at SW-7 located downstream of where the surface water drainage enters the river showed concentrations in 2023 that were similar to station SW-8 located in the Serpent River upstream of the WDS. The water quality at SW-6 and SW-7 further support the conclusion for SW-5 that water entering the roadside ditch from the landfill property is not causing further impairment to water in the ditch and does not pose a threat to aquatic life or habitat downstream of the WDS and in the Serpent River.

10. Recommendations

We provide the following recommendation:

- a) Continue the groundwater and surface water monitoring programs in 2024 according to Tables 1 and 2 in this report.

4. 2023 Environmental Monitoring Program

Two (2) full groundwater (Schedule 5, Column 1 of the Landfill Standards) and surface water (Schedule 5, Column 3 of the Landfill Standards) monitoring events were completed before the end of 2023. AECOM conducted one (1) event in November 2023 and one (1) event in December 2023.

4.1 Groundwater Monitoring Program

The groundwater monitoring program specified in the ECA for the site is outlined in **Table 1** below. The locations of the groundwater monitoring wells are shown on **Figure 2**. As per Ontario Regulation 903, the groundwater well network is secured by lockable above ground steel casings. The groundwater well network was found to be in good condition in 2023.

Table 1: Groundwater Program for the Serpent River WDS

Frequency	Locations	Parameters
3 times per year (spring, summer and fall)	<ul style="list-style-type: none"> BWG, OW3-4, OW3-11, OW4-7, OW6-10, OW7-4, OW9-6, OW14-I, OW15-I, OW15-II, OW16-I, OW16-II, OW17-I and OW17-II, OW1-6R, BWG2. 	<ul style="list-style-type: none"> Water Level Measurements. Laboratory Parameters: pH, conductivity, Total Dissolved Solids (TDS), alkalinity, chloride, sodium, calcium, magnesium, potassium, sulphate, ammonia, total Kjeldahl nitrogen (TKN), chemical oxygen demand (COD), nitrate, nitrite, phenolics, dissolved organic carbon (DOC), total phosphorus, arsenic, barium, boron, cadmium, chromium, copper, iron, lead, manganese, mercury, zinc. Field Parameters: pH, conductivity, temperature.
	<ul style="list-style-type: none"> OW3-4, OW4-7, OW6-10, OW14-I, BWG2. 	<ul style="list-style-type: none"> Full VOC scan.

4.2 Surface Water Monitoring Program

The groundwater monitoring program specified in the ECA for the site is outlined in **Table 2** below. The locations of the surface water stations are shown on **Figure 3**.

Table 2: Surface Water Program for the Serpent River WDS

Locations	Frequency	Parameters
Seep 1, Seep 2, SW-1, SW-2, SW-2B, SW-4, SW-4B, SW-5, SW-6, SW-7, SW-8, SW-9, SW-10	2 times per year (spring and fall)	<ul style="list-style-type: none"> Laboratory Parameters: alkalinity, ammonia, arsenic, barium, boron, cadmium, chloride, chromium, conductivity, copper, iron, lead, mercury, nitrate, nitrite, total Kjeldahl nitrogen (TKN), pH, total phosphorus, total suspended solids (TSS), total dissolved solids (TDS), sulphate, zinc (total and dissolved), biochemical oxygen demand (BOD), chemical oxygen demand (COD), phenolics, manganese (total and dissolved), cobalt, hardness, dissolved organic carbon (DOC), calculation of un-ionized ammonia. Field Parameters: pH, conductivity, temperature, dissolved oxygen, flow.
	2 times per year (summer and winter)	<ul style="list-style-type: none"> Laboratory Parameters: alkalinity, ammonia, chloride, conductivity, iron, nitrate, nitrite, total Kjeldahl nitrogen (TKN), pH, total phosphorus, total suspended solids (TSS), total dissolved solids (TDS), sulphate, biochemical oxygen demand (BOD), chemical oxygen demand (COD), phenolics, hardness. Field Parameters: pH, conductivity, temperature, dissolved oxygen, flow.

Serpent River Waste Disposal Site

2023 Operations Report

Township of the North Shore

60526314

March 2024



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Mr. Matt Simon
Public Works, Fire Chief
Township of the North Shore
1385 Highway 17
P.O. Box 108
Algoma Mills, ON P0R 1A0

March 22, 2024

Project #
60526314

Subject: Serpent River Waste Disposal Site – 2023 Operations Report

Dear Mr. Simon:

AECOM Canada Ltd. (AECOM) is pleased to provide you with the Draft 2023 Operations Report summarizing the operational items for the 2023 calendar year for the Township of the North Shore's Serpent River Waste Disposal Site located on Lot 8, Concession 2 in the Lewis Unorganized Township, District of Algoma.

This report has been compiled in support of only the operational items listed in Condition 6 of the amended Environmental Compliance Approval (ECA) Amendment No. A562303 dated August 21, 2020. This ECA was last amended on December 7, 2021.

Should you have any questions related to this report, please contact the undersigned.

Sincerely,
AECOM Canada Ltd.

Spencer Bootsma, B.Sc., P. Geo.
Project Manager, Environmental Geoscientist
Spencer.Bootsma@aecom.com

LM:mm
Encl.
cc: Township of the North Shore

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The attached Report (the "Report") has been prepared by AECOM Canada Ltd. ("AECOM") for the benefit of the Client ("Client") in accordance with the agreement between AECOM and Client, including the scope of work detailed therein (the "Agreement").

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Quality Information

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2023 Operations Report

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Figure 1: Existing Site Conditions

Appendices

- Appendix A. Environmental Compliance Approval No. A562303
- Appendix B. 2023 Recycling and Waste Data Provided by the Township

1. Introduction

This report contains a summary of the operations of the Township of the North Shore (Township) Serpent River Waste Disposal Site (WDS) for the 2023 calendar year as required by the amended Environmental Compliance Approval (ECA) Number A562303 dated December 7, 2021 (**Appendix A**).

2. Environmental Compliance Approval

The current amended ECA dated December 7, 2021 permits the use and operation of a 3.72 hectare waste disposal/household hazardous waste transfer site within a total site area of 6.53 ha. The WDS has a calculated theoretical maximum volumetric capacity consisting of the waste, daily cover and intermediate cover, but excluding the final cover of 76,760 m³ for the disposal of domestic/commercial waste and drying beds only for septic waste.

The ECA provides the legal framework by which the WDS must be operated. Any changes to the design, operations and/or monitoring of the Site must comply with the current amended ECA and associated reference documents. Changes that are being contemplated that do not comply with the ECA may require the submission of an ECA amendment application to the Ministry of Environment, Conservation and Parks (MECP) Director for approval.

In March 2019, an updated Trigger Mechanism and Contingency Plan for the WDS was submitted to the MECP Approvals Branch.

An Updated Design & Operations (D&O) Report documenting the improvement works to the WDS during 2018/2019 was submitted to the MECP Approvals Branch in October 2019. An ECA Amendment approval was issued by the MECP on August 21, 2020 approving the D&O Report.

An ECA amendment application for the Serpent River WDS was submitted on March 17, 2020 to the MECP requesting approval for an additional capacity request in the amount of 39,990 m³ for a total disposal capacity of 116,750 m³ excluding final cover. Receipt of the application was issued by the MECP in June 2020. The requested additional information for the WDS was provided by AECOM in October 2020.

An amended ECA was issued on December 7, 2021. The MECP did not accept the proposed expansion request, however they did approve the continued operation of the WDS to December 7, 2024, while work to bring the WDS into compliance continues. The previous proposed trigger mechanisms and contingency plans were not accepted for the expansion request, nor was the proposed surface water and groundwater monitoring plans. An Interim Environmental Monitoring Program was developed for the latest amendment to the ECA. Conditions 7.5 and 8.2 of the amended ECA are reiterated below for completeness:

“Condition 7.5

The Owner may continue to use the landfill for disposal of waste for three (3) years from the date of this Approval while working on bringing the site into compliance with respect to Condition 8.2. No waste can be placed for final disposal after this date unless approval from the Director is granted through an amendment to the ECA.

Condition 8.2

The Site shall be operated in such a way as to ensure compliance with the following:

- a. Reasonable Use Guideline B-7 for the protection of groundwater at the Site; and
- b. Provincial Water Quality Objectives included in the July 1994 publication entitled, *Water Management Policies, Guidelines, Provincial Water Quality Objectives*, as amended from time to time or limits set by the Regional Director, for the protection of surface water at or off the Site.”

3. Annual Operations Reporting

Condition 6.0 and Sections 6 and 7 of the current amended ECA for the Serpent River WDS require that a written Annual Report be prepared annually (by March 31) on the development, operations and monitoring of the WDS. Items listed in Section 7, specifically referencing annual operations only, shall include an assessment of the following:

- b) “An assessment of the operation and performance of engineered facilities, the need to amend the design or operation of the Site, and the adequacy of and need to implement the contingency plans;
- c) Site plans showing the most recent survey of the existing contours of the Site; areas of landfilling operation during the reporting period ; areas of intended operation during the next reporting period; areas of excavation during the reporting period; the progress of final cover, vegetative cover and any intermediate cover application; facilities existing, added or removed during the reporting period; and site preparations and facilities planned for installation during the next reporting period;
- d) Calculations of the volume of waste, daily and intermediate cover, and final cover deposited or placed at the Site during the reporting period and a calculation of the total volume of Site capacity used during the reporting period;
- e) A calculation of the remaining capacity of the Site and an estimate of the remaining Site life;
- f) A summary of the weekly, maximum daily and total annual estimated quantity of waste received at the Site;
- g) A summary of complaints received, and the responses made;
- h) A discussion of any operational problems encountered at the Site and corrective action taken;
- i) Any changes to the Design and Operations Report and/or the Closure Plan that have been approved by the Director since the last Annual Report;
- k) Any other information with respect to the Site which the District Manager may require from time to time.”

Detailed information on all the required items listed above is included in this report.

4. Site Capacity

The WDS operates under the current amended ECA dated December 7, 2021. The Site is approved for the use and operation of a 3.72 ha landfilling site within a total site area of 6.53 ha with a calculated theoretical maximum volumetric capacity consisting of the waste, daily cover and intermediate cover, but excluding the final cover of 76,760 m³ for the disposal of domestic/commercial waste and drying beds only for septic waste.

Based on a November 2016 topographic survey and several assumptions, it was estimated that the Serpent River WDS had a current in place waste volume of approximately 22,500 tonnes or 56,250 m³ of waste and 70,000 m³ of waste and cover or total airspace consumed. In addition, based on input from Municipal operators and analyses completed by AECOM, the estimated area where waste had been placed is approximately 2.36 ha of the 3.72 ha approved footprint area.

An additional site survey was completed in September 2019 and the air space consumed from the previous November 2016 survey to the September 2019 survey was calculated. Based on those computations, there was an estimated 4,000 m³ of airspace consumed over a period of 34 months. Although this consumption rate is higher than originally expected (i.e., approximately 1,400 m³/year), there were some anomalous landfilling activities during this period that contributed to the higher quantities. Considering the survey results and accounting for the anomalous disposal activities (i.e., demolition projects), the estimated future consumption rate (i.e., waste, daily cover and interim cover) is in the range of 1,100 m³ /year.

The most recent survey of the WDS was conducted in June 2020 following Site construction activities. The existing Site conditions showing the June 2020 contours is attached as **Figure 1**.

5. Proposed Landfill Expansion

As mentioned in Section 2.0, an ECA Amendment application was submitted to the MECP in March 2020 which requested approval for an additional waste capacity in the amount of 39,990 m³, bringing the Serpent River WDS to a total proposed disposal capacity of 116,750 m³ excluding final cover.

The proposed expansion, to accommodate an additional 39,990 m³ of waste and cover, is planned within the existing disposal footprint (i.e., vertical expansion) upon MECP approval. The existing disposal footprint measures approximately 2.36 ha and is fully contained within the 3.72 ha approved disposal footprint. The WDS is currently being developed using the "area fill" method for waste placement and this will continue with the proposed expansion. The proposed vertical expansion would result in a maximum height of approximately 171 metres (m). The minimum and maximum side slopes of the final waste mound will be 20:1 and 4:1 respectively.

The proposed vertical expansion will preserve the existing natural and Site surface drainage features and maximize the current extent of the treed buffer area to the east of the WDS.

Upon completion of the Interim Environmental Monitoring Program an assessment report will be prepared outlining whether the Site can meet the PWQO and Guideline B-7 compliance requirements outlined in the ECA. Once compliance with Condition 8.2 of the ECA can be demonstrated, then a revised Design and Operations Report for the proposed expansion will be submitted to the MECP for approval. This Report will be submitted to the Director before December 1, 2024.

6. 2023 Landfilling Operations

The following Sections describe the 2023 landfilling operations including general site management for the Serpent River WDS.

6.1 Waste Placement

The 6.53 ha of land, comprised of the WDS includes the waste footprint, the 30 m buffer areas and the Contaminant Attenuation Zone (CAZ) as shown on **Figure 1**, is currently owned by the Township.

Waste is not to be disposed of outside of the approved waste footprint area. The CAZ has been established beyond the buffer zone to the east of the WDS to allow the effective attenuation of any leachate that originates from the waste mound. Monitoring wells have been installed across the Site to monitor the migration and strength of leachate that is generated from the WDS.

Historically, waste was placed outside of the approved landfill footprint area within the 30 m buffer area located along the northern portion of the Site as shown on **Figure 1**. This area was referred to the Fill Beyond Approved Limits (FBAL). This area of waste has been incorporated into the capacity calculations for the WDS. In 2018 and 2019, this waste was excavated and placed back within the approved footprint and the area was regraded to final closure contours. The amount of FBAL totalled approximately 960 m³. The south and southeastern slopes of the footprint were also cut back to 4:1 slopes and interim cover was placed over the area.

The existing topographical conditions of the WDS dictate that the conventional "area fill" method of landfilling be used for the development of the Serpent River WDS.

The "area fill" method has been utilized at the WDS since 1975 and involves the placement of waste in horizontal layers and compacted over the existing topographic surface.

Waste placement activities in 2023 were undertaken using a maximum working face in general of 20 m to allow for sufficient landfilling operations, filling, compacting and grading within the active fill area of the WDS. Activities included the placement of waste in layers no greater than 60 centimetres thick. Wastes were disposed of in the active waste area within the current approved footprint as shown on **Figure 1**.

6.2 Application of Cover Material

Current cover materials used by the Township at the WDS consist of sand and gravel stockpiled on-site which the Township's contractor is responsible for providing when insufficient stockpile is available on-Site. Typically, additional cover material is obtained from an adjacent off-site borrow pit. In 2023, sufficient cover material was available on-Site.

During 2023, weekly cover was applied to the active waste area. The waste was spread in a linear direction across the active area and covered with no less than 0.10 m of cover material and compacted as required.

Visual inspections of the active area and side slopes were also completed by the Site Attendant at the end of each operating week to confirm if there are any issues with the integrity of the side slopes. No issues were observed.

6.3 Housekeeping

General housekeeping practices at the WDS help to minimize nuisance effects and enhance the appearance and public perception. Housekeeping activities were conducted by the Site Attendant during each operating day in 2023 and logged in the Daily Site Inspection Logs. Routine housekeeping items include:

1. Litter control;
2. Dust control;
3. Odour control;
4. Bears, Vector and Vermin control;
5. Noise control; and
6. Segregation of Wastes.

6.4 Daily Site Inspections and Logbook

Daily Logs to record incoming waste, waste refusal, inspection and complaints were filled out by the Site Attendant during each operating day in 2023. The following information is included in the Daily Logs:

1. Waste type, date and time of arrival, hauler and estimated volume of material;
2. Location of active waste area during that specific day of operation;
3. Litter collection and daily inspection activities (i.e., housekeeping);
4. Description of Out-of-Service operational controls (i.e., equipment) and action for maintenance; and
5. Complaints.

During 2023, no deficiencies were recorded by the Site Attendant in the Daily Site Inspection Logs.

Residents transport waste directly to the WDS as needed. Waste and recyclables are also transported to the WDS by the Townships subcontractor from three (3) bin transfer locations located throughout the Township including the one (1) located outside the gate to the Serpent River WDS.

In 2023, wastes accepted at the Site consisted only of the approved municipal wastes as defined under Ontario's General Waste Management Regulation 347 described as solid non-hazardous waste for landfilling. The wastes consisted mainly of general household wastes and recyclables. No unacceptable loads entered the WDS and no records of Waste Refusal were issued by the Township in 2023.

6.5 Acceptable Septic Wastes

The Serpent River WDS is approved under the current amended ECA for the disposal of domestic/commercial waste and drying beds only for septic waste. Although the WDS is approved to accept septic waste, no septic waste has entered the Site since landfilling operations began, nor does the Township currently accept this type of waste at the Serpent River WDS.

6.6 Waste Tonnage Estimates

The 2023 waste volumes were obtained from the Daily Waste Records provided by the Township and by the Townships waste hauler (see **Appendix B**). The data from the Township's hauling contractor of the waste bins (GFL) indicates 1,467 m³ were brought to the WDS for disposal in 2023. During operating hours, a total of 641 bags of garbage were brought to the WDS for disposal based on the Township's data provided. Using a conservative estimate of 10 bags per cubic metre, the 641 bags is equivalent to 64.1 m³ of un-compacted waste. Thus, it is estimated that a total of 64.1 m³ of un-compacted waste entered the WDS in 2023. It has been assumed that the compaction of this waste when placed in the landfill would reduce the value to 40%, resulting in 25.6 m³ of bagged waste. Therefore, the estimated airspace consumed by waste based on the 2023 waste tonnages is 1,492 m³. It is recommended that the Site be surveyed in Spring / early Summer 2024.

All loads were inspected and then directed to the appropriate waste segregation area or were tipped in the active fill area by end-dumping.

Clean wood waste including segregated brush and lumber were burned on Site in the designated burning area in accordance with the current amended ECA.

Recyclables including plastic, aluminum, metals, glass and cardboard were placed in the associated bins provided and metals materials (including white goods), tires and electronic waste were stored in the appropriate designated areas until transferred off-Site.

A recorded 39.81 tonnes of recyclable materials were diverted from the Serpent River WDS and other Township Transfer Stations in 2023 and transported to the Blind River recycling plant in accordance with the current amended ECA.

6.7 Remaining Capacity

In September 2019, the remaining lifespan of the Serpent River WDS was determined based on the estimated remaining airspace of 2,760 m³ and by using an average annual consumption rate of approximately 1,100 m³/year. The 2021 amended ECA now only provides approval for landfilling at the Site until December 7, 2024. Therefore, it is recommended that the WDS be surveyed in early 2024, to confirm the volume of existing waste in place.

6.8 Operational Issues and Complaints

No operational problems or complaints regarding the WDS operations were recorded by the Township in 2023.

6.9 Monitoring Well Status

All existing monitoring wells at the WDS are currently in compliance with Ontario Wells Regulation 903.

6.10 Site Construction Works

No construction works were conducted at the Site in 2023.

7. 2024 Landfill Operations

General Site operations for the Serpent River WDS will continue to be reviewed and updated as required to ensure the Site is operating in compliance with the current amended ECA. Landfilling operations are anticipated to continue in the active waste area in 2024 as identified on **Figure 1**. The Interim Environmental Monitoring Program will be conducted in 2024. Should any additional works be completed in 2024, the details will be provided in the next Annual Operations Report as required.

8. References

AECOM, 2023:

Serpent River Waste Disposal Site 2022 Operations Report, PN60526314, March 31, 2023.

AECOM, 2022:

Serpent River Waste Disposal Site 2021 Operations Report, PN60526314, March 31, 2022.

AECOM, 2021:

Serpent River Waste Disposal Site 2020 Operations Report, PN60526314, March 31, 2021.

AECOM, 2020:

Serpent River Waste Disposal Site 2019 Operations Report, PN60526314, March 31, 2020.

AECOM, 2019a:

Serpent River Waste Disposal Site 2019 Design & Operations Report, PN60526314, October 4, 2019.

AECOM, 2019b:

Serpent River Waste Disposal Site 2018 Operations Report, PN60526314, March 28, 2019.

AECOM, 2019c:

Serpent River WDS Trigger Mechanism and Contingency Plan, PN60526314, March 28, 2019.

Amec Foster Wheeler, 2016:

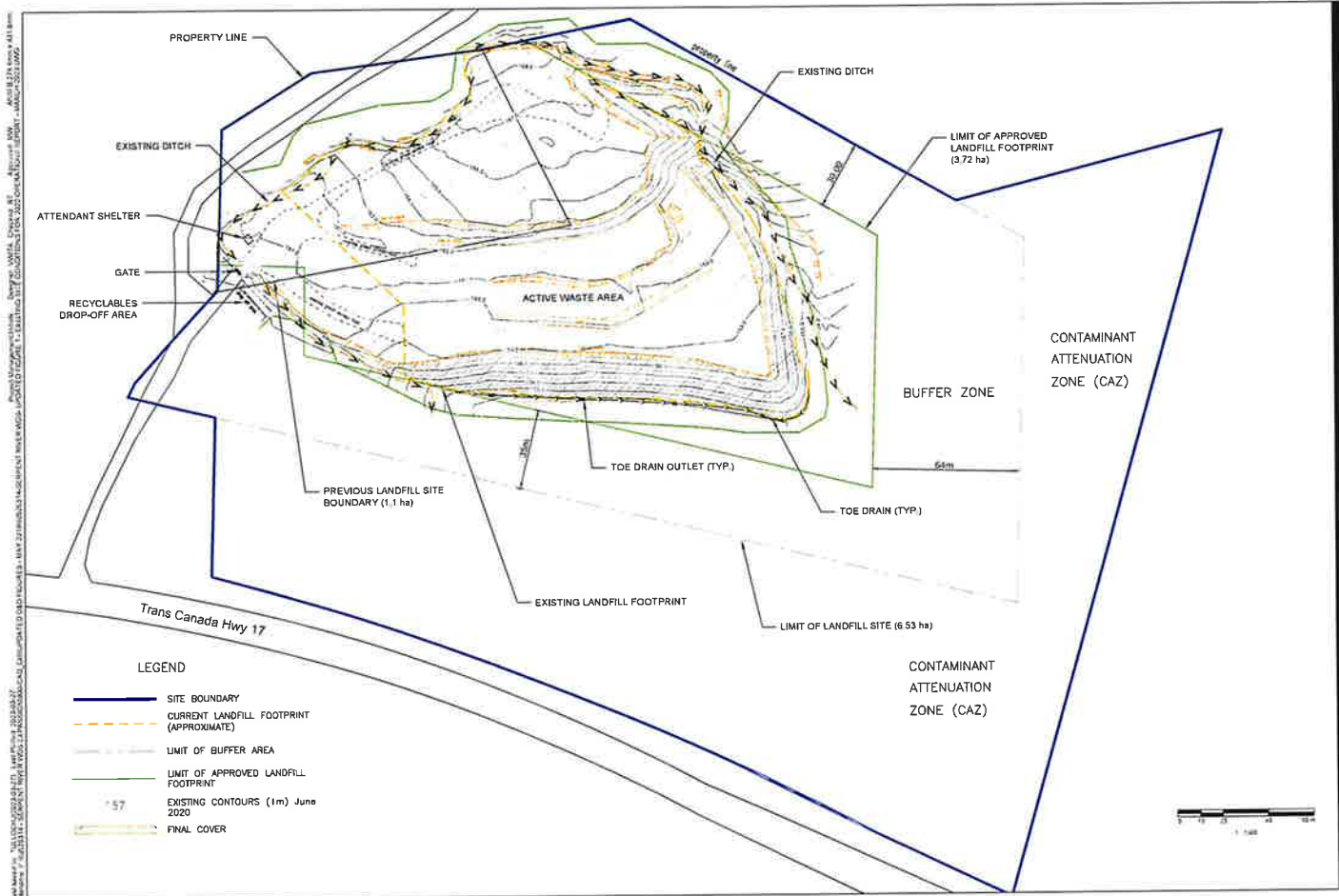
2015 Annual Groundwater and Surface Water Monitoring Report, Serpent River Waste Disposal Site, Project No. TY151006, January 14, 2016.

Marshall Macklin Monaghan, 1991:

Interim Design and Operations Report, Serpent River Landfill, Project No. 14-90098-I01 February 27, 1991.

Figures



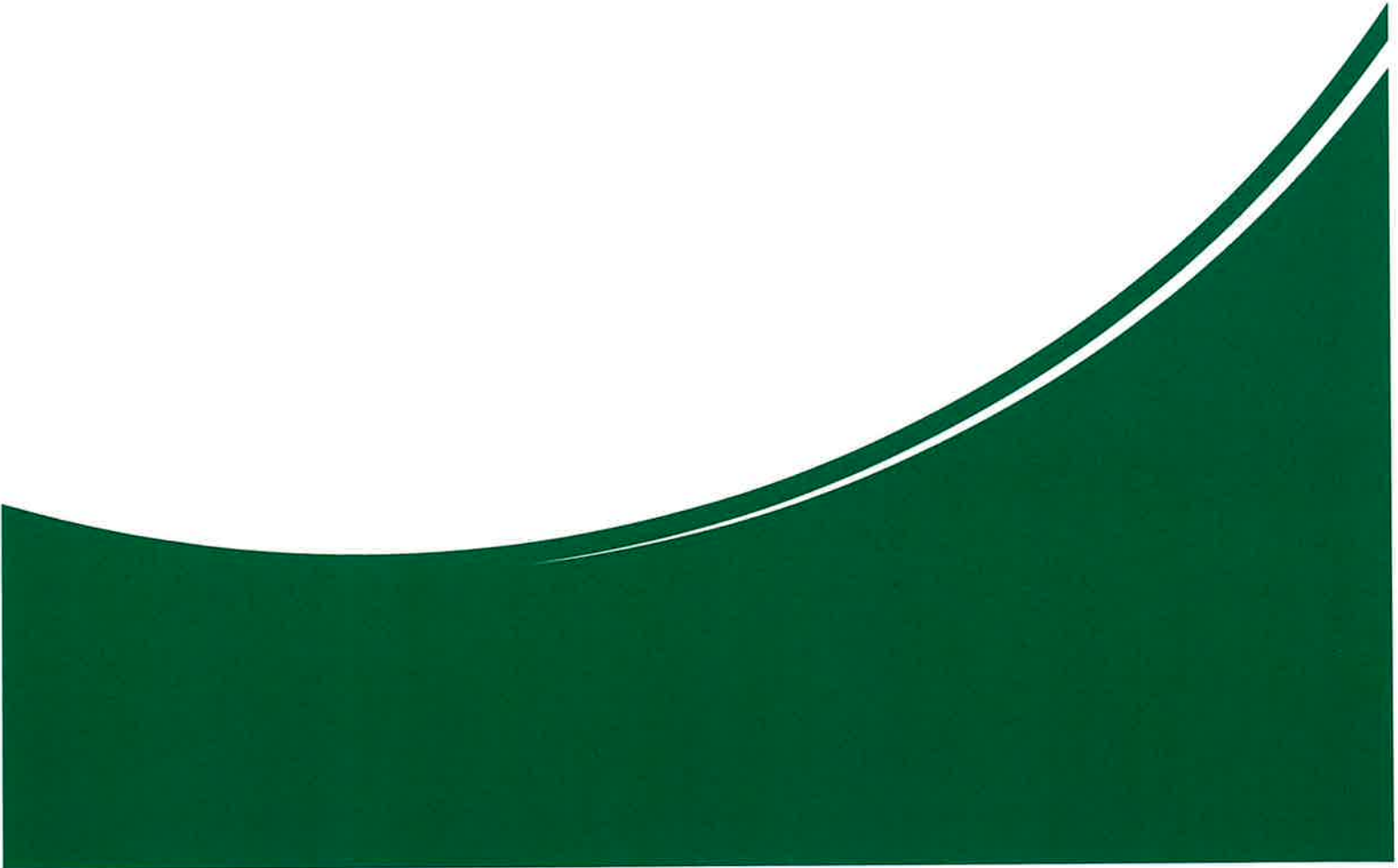


Project No. 60526314, Project Name: Serpentine River Waste Disposal Site, Municipality of the North Shore, Location: 118 km W of Kamouraska, P.E.I., Date: March 2023

Figure: 1

Appendix **A**

**Environmental Compliance
Approval No. A562303**



AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER A562303

Issue Date: December 7, 2021

The Corporation of the Township of the North Shore
1385 Highway 17
The North Shore, Ontario
P0R 1B0

Site Location: Serpent River Landfill Site
The Corporation of the Township of The North Shore
Lot 8, Concession 2
The North Shore Township, District of Algoma

You have applied under section 20.2 of Part II.1 of the Environmental Protection Act, R.S.O. 1990, c. E. 19 (Environmental Protection Act) for approval of:

the use and operation of 3.72 hectare waste disposal/household hazardous waste transfer site within a total site area of 6.53 hectares.

For the purpose of this environmental compliance approval, the following definitions apply:

“Approval” means this Environmental Compliance Approval and any Schedules to it;

“Contaminating Life Span” means contaminating life span as defined in Ontario Regulation 232/98;

“Director” means any Ministry employee appointed in writing by the Minister pursuant to section 5 of the EPA as a Director for the purposes of Part II.1 of the EPA;

“District Manager” means the District Manager of the local district office of the Ministry in which the Site is geographically located;

"EPA" means the *Environmental Protection Act*, R.S.O. 1990, c.E.19, as amended;

"Ministry" means the ministry of the government of Ontario responsible for the EPA and OWRA and includes all officials, employees or other persons acting on its behalf;

“NMA” means the *Nutrient Management Act, 2002*, S.O. 2002, c. 4, as amended;

“O. Reg. 232/98” means Ontario Regulation 232/98: (Landfilling Sites), as amended, made under the EPA;

“O. Reg. 463/10” means Ontario Regulation 463/10 (Ozone Depleting Substances and Other Halocarbons), as amended, made under the EPA;

“Ontario Drinking Water Quality Standards” means Ontario Regulation 169/03 (Ontario Drinking Water Quality Standards), made under the SDWA;

“Operator” means any person, other than the Owner's employees, authorized by the Owner as having the charge, management or control of any aspect of the Site and includes its successors or assigns;

“Owner” means any person that is responsible for the establishment or operation of the Site being approved by this Approval, and includes the Corporation of the Township of The North Shore and its successors and assigns;

“OWRA” means the *Ontario Water Resources Act*, R.S.O. 1990, c. O.40, as amended;

“PA” means the *Pesticides Act*, R.S.O. (1990), c. P.11, as amended;

“Provincial Officer” means any person designated in writing by the Minister as a provincial officer pursuant to Section 5 of the OWRA, Section 5 of the EPA, Section 17 of the PA, Section 4 of the NMA, or Section 8 of the SDWA;

“Regional Director” means the Regional Director of the local Regional Office of the Ministry in which the Site is located;

“Reg. 347” means R.R.O. 1990, Reg. 347: (General - Waste Management), as amended, made under the EPA;

“Reg. 903” means R.R.O. 1990, Reg. 903: (Wells), as amended, made under the OWRA;

“SDWA” means the *Safe Drinking Water Act, 2000*, S.O. 2002, c. 32, as amended;

“Schedules” means the following schedules attached to this Approval and forming part of this Approval namely:

- o Schedule 1 - Supporting Documentation;
- o Schedule 2 - Interim Surface Water Monitoring Program; and
- o Schedule 3 - Interim Groundwater Monitoring Program;

“Site” means the entire waste disposal site, including the buffer lands, and contaminant attenuation zone at Serpent River Landfill Site, The Corporation of the Township of The North Shore, Lot 8, Concession 2, The North Shore Township, District of Algoma;

“Trained Personnel” means personnel knowledgeable in the following through instruction and/or practice:

- o relevant waste management legislation, regulations and guidelines;
- o major environmental concerns pertaining to the waste to be handled;
- o occupational health and safety concerns pertaining to the processes and wastes to be handled;
- o management procedures including the use and operation of equipment for the processes and wastes to be handled;
- o emergency response procedures;
- o specific written procedures for the control of nuisance conditions;
- o specific written procedures for refusal of unacceptable waste loads; and
- o the requirements of this Approval; and

"White Goods" means household appliances which use, or may use refrigerants, and which include, but is not limited to, refrigerators, freezers and air-conditioning systems.

You are hereby notified that this environmental compliance approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. GENERAL

Compliance

1. The Owner and Operator shall ensure compliance with all the conditions of this Approval and shall ensure that any person authorized to carry out work on or operate any aspect of the Site is notified of this Approval and the conditions herein and shall take all reasonable measures to ensure any such person complies with the same.
2. Any person authorized to carry out work on or operate any aspect of the Site shall comply with the conditions of this Approval.

In Accordance

3. Except as otherwise provided by this Approval, the Site shall be designed, developed, built, operated and maintained in accordance with the documentation listed in the attached Schedule 1.
4. Construction and installation of the aspects described in Schedule 1 must be completed within 5 years of the later of:
 - a. the date of this Approval; or

- b. if there is a hearing or other litigation in respect of the issuance of this Approval, the date that this hearing or litigation is disposed of, including all appeals.
- 5. This Approval ceases to apply in respect of the described in Schedule 1 that have not been constructed or installed before the later of the dates identified in condition 1.4 above.

Interpretation

- 6. Where there is a conflict between a provision of any document listed in Schedule 1 in this Approval, and the conditions of this Approval, the conditions in this Approval shall take precedence.
- 7. Where there is a conflict between the application and a provision in any document listed in Schedule 1, the application shall take precedence, unless it is clear that the purpose of the document was to amend the application and that the Ministry approved the amendment.
- 8. Where there is a conflict between any two documents listed in Schedule 1, the document bearing the most recent date shall take precedence.
- 9. The conditions of this Approval are severable. If any condition of this Approval, or the application of any condition of this Approval to any circumstance, is held invalid or unenforceable, the application of such condition to other circumstances and the remainder of this Approval shall not be affected thereby.

Other Legal Obligations

- 10. The issuance of, and compliance with, this Approval does not:
 - a. relieve any person of any obligation to comply with any provision of any applicable statute, regulation or other legal requirement; or
 - b. limit in any way the authority of the Ministry to require certain steps be taken or to require the Owner and Operator to furnish any further information related to compliance with this Approval.

Adverse Effect

- 11. The Owner and Operator shall take steps to minimize and ameliorate any adverse effect on the natural environment or impairment of water quality resulting from the Site, including such accelerated or additional monitoring as may be necessary to determine the nature and extent of the effect or impairment.
- 12. Despite an Owner, Operator or any other person fulfilling any obligations imposed by this Approval the person remains responsible for any contravention of any other condition of this Approval or any applicable statute, regulation, or other legal requirement resulting

from any act or omission that caused the adverse effect to the natural environment or impairment of water quality.

Change of Ownership

13. The Owner shall notify the Director, in writing, and forward a copy of the notification to the District Manager, within 30 days of the occurrence of any changes in the following information:
 - a. the ownership of the Site;
 - b. the Operator of the Site;
 - c. the address of the Owner or Operator; and
 - d. the partners, where the Owner or Operator is or at any time becomes a partnership and a copy of the most recent declaration filed under the Business Names Act, R. S. O. 1990, c. B.17, shall be included in the notification.
14. No portion of this Site shall be transferred or encumbered prior to or after closing of the Site unless the Director is notified in advance and sufficient financial assurance is deposited with the Ministry to ensure that these conditions will be carried out.
15. In the event of any change in ownership of the Site, other than change to a successor municipality, the Owner shall notify the successor and provide the successor with a copy of this Approval, and the Owner shall provide a copy of the notification to the District Manager and the Director.

Registration on Title Requirement

16. Prior to dealing with the property in any way, the Owner shall provide a copy of this Approval and any amendments, to any person who will acquire an interest in the property as a result of the dealing.
17.
 - a. Within ninety (90) calendar days from the date of issuance of this Approval, the Owner shall submit to the Director a completed Certificate of Requirement which shall include:
 - i. a plan of survey prepared, signed and sealed by an Ontario Land Surveyor, which shows the area of the Site where waste has been or is to be deposited at the Site;
 - ii. proof of ownership of the Site;
 - iii. a letter signed by a member of the Law Society of Upper Canada or other qualified legal practitioner acceptable to the Director, verifying the legal description provided in the Certificate of Requirement;
 - iv. the legal abstract of the property; and
 - v. any supporting documents including a registerable description of the Site.
 - b. Within fifteen (15) calendar days of receiving a Certificate of Requirement authorized by the Director, the Owner shall:

- i. register the Certificate of Requirement in the appropriate Land Registry Office on the title to the property; and
- ii. submit to the Director and the District Manager, written verification that the Certificate of Requirement has been registered on title.

Registration on Title Requirement - Contaminant Attenuation Zone (CAZ)

18. Within thirty (30) calendar days from the date of establishing a Contaminant Attenuation Zone (CAZ) (overburden and/or bedrock aquifers) in either fee simple or by way of a groundwater easement, the Owner shall submit to the Director a completed Certificate of Requirement which shall include:
 - a. If rights are obtained in fee simple, the Owner shall provide:
 - i. documentation evidencing ownership of the CAZ obtained in compliance with O.Reg. 232/98, as amended;
 - ii. a completed Certificate of Requirement and supporting documents containing a registerable description of the CAZ; and
 - iii. a letter signed by a member of the Law Society of Upper Canada; or other qualified legal practitioner acceptable to the Director, verifying the legal description of the CAZ.
 - b. Within fifteen (15) calendar days of receiving a Certificate of Requirement signed or authorized by the Director, the Owner shall:
 - i. register the Certificate of Requirement in the appropriate Land Registry Office on the title to the property; and
 - ii. submit to the Director and the District Manager, written verification that the Certificate of Requirement has been registered on title.
 - c. If rights are obtained by way of a groundwater easement, the Applicant shall:
 - i. provide a copy of the easement;
 - ii. provide a plan of survey signed and sealed by an Ontario Land Surveyor for the CAZ;
 - iii. submit proof of registration on title of the groundwater easement to the Director;
 - d. The Owner shall not amend or remove or consent to the removal of the easement or CAZ from title without the prior written consent of the Director.

Inspections by the Ministry

19. No person shall hinder or obstruct a Provincial Officer from carrying out any and all inspections authorized by the OWRA, the EPA, the PA, the SDWA or the NMA, of any place to which this Approval relates, and without limiting the foregoing:
 - a. to enter upon the premises where the approved works are located, or the location where the records required by the conditions of this Approval are kept;

- b. to have access to, inspect, and copy any records required to be kept by the conditions of this Approval;
- c. to inspect the Site, related equipment and appurtenances;
- d. to inspect the practices, procedures, or operations required by the conditions of this Approval; and
- e. to sample and monitor for the purposes of assessing compliance with the terms and conditions of this Approval or the EPA, the OWRA, the PA, the SDWA or the NMA.

Information and Record Retention

- 20.
 - a. Except as authorized in writing by the Director, all records required by this Approval shall be retained at the Site for a minimum of two (2) years from their date of creation.
 - b. The Owner shall retain all documentation listed in Schedule 1 for as long as this Approval is valid.
 - c. All monthly summary reports of waste records collected are to be kept at the Site until they are included in the Annual Report.
 - d. The Owner shall retain employee training records as long as the employee is working at the Site.
 - e. The Owner shall make all of the above documents available for inspection upon request of Ministry staff.
- 21. The receipt of any information by the Ministry or the failure of the Ministry to prosecute any person or to require any person to take any action under this Approval or under any statute, regulation or other legal requirement, in relation to the information, shall not be construed as:
 - a. an approval, waiver, or justification by the Ministry of any act or omission of any person that contravenes any term or condition of this Approval or any statute, regulation or other legal requirement; or
 - b. acceptance by the Ministry of the information's completeness or accuracy.
- 22. The Owner shall ensure that a copy of this Approval, in its entirety and including all its Notices of Amendment, and documentation listed in Schedule 1, are retained at the Site at all times.
- 23. Any information related to this Approval and contained in Ministry files may be made available to the public in accordance with the provisions of the Freedom of Information and Protection of Privacy Act, RSO 1990, CF-31.

2. SITE OPERATION

Operation

1. The Site shall be operated and maintained at all times including management and disposal of all waste, in accordance with the EPA, Reg. 347, and the conditions of this Approval. At no time shall the discharge of a contaminant that causes or is likely to cause an adverse effect be permitted.

Signs

2. The Owner shall install and maintain a sign at the entrance to the Site. The sign shall be visible and readable from the main road leading to the Site. The following information shall be included on the sign:
 - a. the name of the Site and Owner;
 - b. the number of the Approval;
 - c. the name of the Operator;
 - d. the normal hours of operation;
 - e. the allowable and prohibited waste types;
 - f. the telephone number to which complaints may be directed;
 - g. a warning against unauthorized access; and
 - h. a twenty-four (24) hour emergency telephone number (if different from above).
3. The Owner shall install and maintain signs to direct vehicles to drop off areas for waste/recyclable drop off areas.
4. The Owner shall provide signs at recycling bins and waste diversion areas informing users what materials are acceptable and directing users to appropriate storage areas.

Vermin, Vectors, Dust, Litter, Odour, Noise and Traffic

5. The Site shall be operated and maintained such that the vermin, vectors, dust, litter, odour, noise and traffic do not create a nuisance.

Burning Waste Prohibited

6.
 - a. Burning of waste at the Site is prohibited.
 - b. Notwithstanding Condition 2.6.a above, burning of segregated, clean wood and brush at the landfill may be carried out in strict compliance with the Ministry of the Environment Document titled "Guideline C-7, Burning at Landfill Sites" dated April 1994.

Site Access

7. The Owner shall open the Site for accepting waste during daylight hours to provide sufficient service to the residents. Operating hours shall be posted at the entrance to the Site.
8. With the prior written approval from the District Manager, the time periods may be extended to accommodate seasonal or unusual quantities of waste.

Site Security

9. No waste shall be received, landfilled or removed from the Site unless a site supervisor or an attendant is present and supervises the operations during operating hours. The Site shall be closed when a site attendant is not present to supervise landfilling operations.
10. The Site shall be operated and maintained in a safe and secure manner. During non-operating hours, the Site entrance and exit gates shall be locked and the Site shall be secured against access by unauthorized persons.

Operation of Waste Transfer Located Outside the Landfill Gate (Transfer Station)

11. This Transfer Station is approved to receive:
 - a. non-hazardous residential waste; and
 - b. recycling material: plastics 1 through 6, commingled plastic and metal food and beverage containers, glass bottles and jars, aseptic containers and gable top cartons, cardboard, boxboard and paper.
12. Notwithstanding conditions 2.7 and 2.8, the Transfer Station is approved to receive waste 24 hours per day, 7 days per week.
13. The Owner shall ensure that all incoming waste is stored in bear proof bins.
14. The Owner shall ensure that the maximum amount of waste stored at the Site does not exceed at any one time is four garbage bins and four recycling bins.
15. The storage of hazardous waste materials is not permitted.
16. The Owner shall maintain a plan identifying the location of each storage area and the waste it contains. The Owner shall ensure the plan is a true reflection of the materials stored on-site and make the plan available for inspection upon request by emergency response personnel and/or Provincial Officers.
17. Bins shall be emptied once a week. The garbage will be taken to the municipal landfill site located in Serpent River (within municipal boundaries). The recycling will be taken to Municipal Waste Management recycling plant in Blind River, Ontario.

18. The Owner shall have in place a written contingency plan to address potential operational upsets such as, but not limited to:
 - a. equipment failures;
 - b. power failures;
 - c. labour disruption;
 - d. unavailability of waste destination facilities, border closures or other issues that may disrupt the transfer of waste to appropriate locations; and
 - e. in the event hazardous waste material is dumped at the transfer stations, a plan to deal with such waste will be in place.

3. EMPLOYEE TRAINING

1. A training plan for all employees that operate any aspect of the Site shall be developed and implemented by the Owner or the Operator. Only Trained Personnel shall operate any aspect of the Site or carry out any activity required under this Approval.

4. COMPLAINTS RESPONSE PROCEDURE

1. If at any time the Owner receives complaints regarding the operation of the Site, the Owner shall respond to these complaints according to the following procedure:
 - a. The Owner shall record and number each complaint, either electronically or in a log book, and shall include the following information: the nature of the complaint, the name, address and the telephone number of the complainant if the complainant will provide this information and the time and date of the complaint;
 - b. The Owner, upon notification of the complaint, shall initiate appropriate steps to determine possible causes of the complaint, proceed to take the necessary actions to eliminate the cause of the complaint and forward a formal reply to the complainant; and
 - c. The Owner shall complete and retain on-site a report written within one (1) week of the complaint date, listing the actions taken to resolve the complaint and any recommendations for remedial measures, and managerial or operational changes to reasonably avoid the recurrence of similar incidents.

5. EMERGENCY RESPONSE

1. All Spills as defined in the EPA shall be immediately reported to the **Ministry's Spills Action Centre at 1-800-268-6060** and shall be recorded in the log book as to the nature of the emergency situation, and the action taken for clean-up, correction and prevention of future occurrences.

2. In addition, the Owner shall submit, to the District Manager a written report within three (3) business days of the emergency situation, outlining the nature of the incident, remedial measures taken, handling of waste generated as a result of the emergency situation and the measures taken to prevent future occurrences at the Site.
3. All wastes resulting from an emergency situation shall be managed and disposed of in accordance with Reg. 347.
4. All equipment and materials required to handle the emergency situations shall be:
 - a. kept on hand at all times that waste landfilling and/or handling is undertaken at the Site; and
 - b. adequately maintained and kept in good repair.
5. The Owner shall ensure that the emergency response personnel are familiar with the use of such equipment and its location(s).

6. INSPECTIONS, RECORD KEEPING AND REPORTING

Daily Log Book

1. A daily log shall be maintained in written or electronic format and shall include the following information:
 - a. the type, date and time of arrival, hauler, and quantity (tonnes) of all waste and cover material received at the Site;
 - b. the area of the Site in which waste disposal operations are taking place;
 - c. a record of litter collection activities and the application of any dust suppressants;
 - d. a record of the daily inspections; and
 - e. a description of any out-of-service period of any control, treatment, disposal or monitoring facilities, the reasons for the loss of service, and action taken to restore and maintain service.
2. Any information requested, by the Director or a Provincial Officer, concerning the Site and its operation under this Approval, including but not limited to any records required to be kept by this Approval shall be provided to the Ministry, upon request.

Daily Inspections and Log Book

3. An inspection of the entire Site and all equipment on the Site shall be conducted each day the Site is in operation to ensure that: the Site is secure; that the operation of the Site is not causing any nuisances; that the operation of the Site is not causing any adverse effects on the environment and that the Site is being operated in compliance with this Approval. Any deficiencies discovered as a result of the inspection shall be remedied immediately, including temporarily ceasing operations at the Site if needed.

4. A record of the inspections shall be kept in a daily log book that includes:
 - a. the name and signature of person that conducted the inspection;
 - b. the date and time of the inspection;
 - c. the list of any deficiencies discovered;
 - d. the recommendations for remedial action; and
 - e. the date, time and description of actions taken.
5. A record shall be kept in the daily log book of all refusals of waste shipments, the reason(s) for refusal, and the origin of the waste, if known.

Annual Report

6. A written report on the development, operation and monitoring of the Site, shall be completed annually (the "Annual Report"). The Annual Report shall be submitted to the District Manager, by March 31st of the year following the period being reported upon.
7. The Annual Report shall include but not be limited to the following information:
 - a. the results and an interpretive analysis of the results of all leachate, groundwater, surface water and landfill gas monitoring, including an assessment of the need to amend the monitoring programs;
 - b. an assessment of the operation and performance of all engineered facilities, the need to amend the design or operation of the Site, and the adequacy of and need to implement the contingency plans;
 - c. site plans showing the existing contours of the Site (updated by carrying out topographic surveys every three years); areas of landfilling operation during the reporting period; areas of intended operation during the next reporting period; areas of excavation during the reporting period; the progress of final cover, vegetative cover, and any intermediate cover application; previously existing site facilities; facilities installed during the reporting period; and site preparations and facilities planned for installation during the next reporting period;
 - d. calculations of the volume of waste, daily and intermediate cover, and final cover deposited or placed at the Site during the reporting period and a calculation of the total volume of Site capacity used during the reporting period;
 - e. a calculation of the remaining capacity of the Site and an estimate of the remaining site life;
 - f. a summary of the weekly, maximum daily and total annual quantity (tonnes) of waste received at the Site and recyclables transferred from the Site;
 - g. a summary of any complaints received and the responses made;
 - h. a discussion of any operational problems encountered at the Site and corrective action taken;
 - i. any changes to the Design and Operations Report and the Closure Plan that have been approved by the Director since the last Annual Report;
 - j. a report on the status of all monitoring wells and a statement as to compliance with Reg. 903; and
 - k. any other information with respect to the Site which the District Manager may

require from time to time.

7. LANDFILL DESIGN AND DEVELOPMENT

Approved Waste Types

1. Only municipal waste as defined under Reg. 347 being solid non-hazardous shall be accepted at the Site for landfilling.
2. The Owner shall develop and implement a program to inspect waste to ensure that the waste received at the Site is of a type approved for acceptance under this Approval.
3. The Owner shall ensure that all loads of waste are properly inspected by Trained personnel prior to acceptance at the Site and that the waste vehicles are directed to the appropriate areas for disposal or transfer of the waste. The Owner shall notify the District Manager, in writing, of load rejections at the Site within one (1) business day from their occurrence.

Capacity

4. The maximum volumetric capacity approved for the Site, consisting of the waste, daily cover and intermediate cover, but excluding the final cover is 76,760 cubic metres.
5. Design and Operations report dated March 2020 prepared by AECOM Canada Ltd. is hereby approved except the following:
 - a. proposed expansion volume of 39,990 cubic meters;
 - b. proposed trigger mechanisms and contingency plans; and
 - c. proposed surface water and groundwater monitoring plans.
6. The Owner may continue to use the landfill for disposal of waste for three (3) years from the date of this Approval while working on bringing the site into compliance with respect to condition 8.2. No waste can be placed for final disposal after this date unless approval from the Director is granted through an amendment to the ECA.
7. Within six (6) months from the date of this Approval the Owner shall submit to the District Manager an action plan to bring the site into compliance with condition 8.2 that includes a timeline for the diversion of the stormwater ditch away from the seep.
8. Should an expansion be pursued, within three (3) years from the date of this approval the Owner shall submit to the Director for approval, a design and operations plan outlining the following:
 - a. proposed landfill design including the footprint, final contours, capacity and an estimate of the amount of existing waste;
 - b. an estimate of waste types and quantities to be landfilled at the site;

- c. location and description of the access road and the on-site roads at the Site;
- d. description and location of the fencing and the gate(s);
- e. screening of the Site from the public, both visual and the protection from the noise impact;
- f. details of the clean surface water drainage from the Site and any works required to prevent extraneous surface water from contacting the active working face;
- g. description of the fill method, the equipment used at the Site, the areas used for various fill methods of landfilling, and timelines for various phases of the Site development;
- h. the operating hours of the Site and the hours for the various activities to be undertaken at the Site, including waste compaction, waste coverage and other activities within the Site;
- i. details on winter operations;
- j. the equipment used and the procedures used for waste deposition, spreading and covering;
- k. details on supervision and monitoring of the activities at the Site;
- l. any changes to the details on handling of other wastes, including the types and amounts of wastes handled, storage locations, storage facility design/description and the frequency of removal from the Site;
- m. details on housekeeping practices undertaken to control noise, dust, litter, odour, rodents, insects and other disease vectors, scavenging birds or animals;
- n. details on the closure of the Site, including the description of the final cover and its estimated permeability, its thickness, the source of the final cover material, the thickness of the top soil and the vegetation proposed for the closed waste mound, as well as the timeframe for the progressive waste coverage;
- o. monitoring program for the surface and ground water considering comments provided by the approved by the Technical Support Section of the Ministry;
- p. site-specific trigger mechanism program for the implementation of the groundwater and surface water, contingency measures and a description of such measures approved by the Technical Support Section of the Ministry;
- q. landfill gas control or management required at the Site;
- r. maintenance activities proposed for the Site and for the monitoring well network; including the type of the activities, the frequency of the activities and the personnel responsible for them;
- s. inspection activities proposed for the Site, including the frequency of the activities and the personnel responsible for them;
- t. details of training provided for the personnel responsible for the activities at the Site;
- u. contingency plans for the emergency situations that may occur at the Site;
- v. storm water management, including the location and the design of any works required; and
- w. any other information relevant to the design and operation of the Site or the information required by the District Manager.

Service Area

9. Only waste that is generated within the boundaries of the Township of the North Shore may be accepted at the Site for landfilling.

Cover

10. Alternative materials to soil may be used as weekly and interim cover material, based on an application with supporting information and applicable fee for a trial use or permanent use, submitted by the Owner to the Director, copied to the District Manager and as approved by the Director via an amendment to this Approval. The alternative material shall be non-hazardous according to Reg. 347 and will be expected to perform at least as well as soil in relation to the following functions:
 - a. Control of blowing litter, odours, dust, landfill gas, gulls, vectors, vermin and fires;
 - b. Provision for an aesthetic condition of the landfill during the active life of the Site;
 - c. Provision for vehicle access to the active tipping face; and
 - d. Compatibility with the design of the Site for groundwater protection, leachate management and landfill gas management.
11. Cover material shall be applied as follows:
 - a. Weekly Cover - Weather permitting, deposited waste shall be covered at the end of each working day in a manner acceptable to the District Manager so that no waste is exposed to the atmosphere;
 - b. Intermediate Cover - In areas where landfilling has been temporarily discontinued for one (1) month or more, a minimum thickness of 300 millimetre of soil cover or an approved thickness of alternative cover material shall be placed; and
 - c. Final Cover - In areas where landfilling has been completed to final contours, a minimum 600 millimetre thick layer of soil of medium permeability and 150 millimetres of top soil (vegetative cover) shall be placed. Fill areas shall be progressively completed and rehabilitated as landfill development reaches final contours.

8. LANDFILL MONITORING

Landfill Gas

1. The Owner shall ensure that any buildings or structures at the Site contain adequate ventilation systems to relieve any possible landfill gas accumulation. Routine monitoring for explosive methane gas levels shall be conducted in all buildings or structures at the Site, especially enclosed structures which at times are occupied by people.

Compliance

2. The Site shall be operated in such a way as to ensure compliance with the following:
 - a. Reasonable Use Guideline B-7 for the protection of the groundwater at the Site; and
 - b. Provincial Water Quality Objectives included in the July 1994 publication entitled Water Management Policies, Guidelines, Provincial Water Quality Objectives, as amended from time to time or limits set by the Regional Director, for the protection of the surface water at and off the Site.

Surface Water and Groundwater

3. The Owner shall monitor surface water and groundwater in accordance with the monitoring programs in Schedules 2 and 3.
4. A certified Professional Geoscientist or Engineer possessing appropriate hydrogeologic training and experience shall execute or directly supervise the execution of the groundwater monitoring and reporting program.

Groundwater Wells and Monitors

5. The Owner shall ensure that all groundwater monitoring wells which form part of the monitoring program are properly capped, locked and protected from damage.
6. Where landfilling is to proceed around monitoring wells, suitable extensions shall be added to the wells and the wells shall be properly re-secured.
7. Any groundwater monitoring well included in the on-going monitoring program that is damaged shall be assessed, repaired, replaced or decommissioned by the Owner, as required.
 - a. The Owner shall repair or replace any monitoring well which is destroyed or in any way made to be inoperable for sampling such that no more than one regular sampling event is missed.
 - b. All monitoring wells which are no longer required as part of the groundwater monitoring program, and have been approved by the Director for abandonment, shall be decommissioned by the Owner, as required, in accordance with Reg. 903, to prevent contamination through the abandoned well. A report on the decommissioning of the well shall be included in the Annual Report for the period during which the well was decommissioned.

Trigger Mechanisms and Contingency Plans

8. a. Within two (2) year from the date of this Approval, the Owner shall submit to the

District Manager, details of a trigger mechanisms plan for surface water and groundwater quality monitoring for the purpose of initiating investigative activities into the cause of increased contaminant concentrations.

- b. Within two (2) years from the date of this Approval, the Owner shall submit to the District Manager, details of a contingency plan to be implemented in the event that the surface water or groundwater quality exceeds any trigger mechanism.
9. In the event of a confirmed exceedance of a site-specific trigger level relating to leachate mounding or groundwater or surface water impacts due to leachate, the Owner shall immediately notify the District Manager, and an investigation into the cause and the need for implementation of remedial or contingency actions shall be carried out by the Owner in accordance with the approved trigger mechanisms and associated contingency plans.
10. If monitoring results, investigative activities and/or trigger mechanisms indicate the need to implement contingency measures, the Owner shall ensure that the following steps are taken:
 - a. The Owner shall notify the District Manager, in writing of the need to implement contingency measures, no later than 30 days after confirmation of the exceedances;
 - b. Detailed plans, specifications and descriptions for the design, operation and maintenance of the contingency measures shall be prepared and submitted by the Owner to the Director for approval; and
 - c. The contingency measures shall be implemented by the Owner upon approval by the Director.
11. The Owner shall ensure that any proposed changes to the site-specific trigger levels for leachate impacts to the surface water or groundwater, are approved in advance by the Director via an amendment to this Approval.

Changes to the Monitoring Programs, Trigger Mechanisms and Contingency Plans

12. The Owner may request to make changes to the monitoring program(s), trigger mechanisms and/or contingency plan to the District Manager in accordance with the recommendations of the annual report. The Owner shall make clear reference to the proposed changes in a separate letter that shall accompany the annual report.
13. Within fourteen (14) days of receiving the written correspondence from the District Manager confirming that the District Manager is in agreement with the proposed changes to the environmental monitoring program, trigger mechanisms and/or contingency plans, the Owner shall forward a letter identifying the proposed changes and a copy of the correspondences from the District Manager and all other correspondences and responses related to the changes, to the Director requesting the Approval be amended to approve the proposed changes to the environmental monitoring plan prior to implementation.

9. CLOSURE PLAN

1. At least one (1) year prior to closure, the Owner shall submit to the Director for approval, with copies to the District Manager, a detailed Site closure plan pertaining to the termination of landfilling operations at this Site, post-closure inspection, maintenance and monitoring, and end use. The plan shall include the following as a minimum but not limited to:
 - a. a plan showing Site appearance after closure;
 - b. a description of the proposed end use of the Site;
 - c. A description of how pollinator friendly plants were considered in the final vegetative cover for the landfill and/or in the landscaping within the Site;
 - d. a description of the procedures for closure of the Site:
 - i. advance notification of the public of the landfill closure;
 - ii. posting a sign at the Site entrance indicating the landfill is closed and identifying any alternative waste disposal arrangements;
 - iii. completion, inspection and maintenance of the final cover and landscaping;
 - iv. site security;
 - v. removal of unnecessary landfill-related structures, buildings and facilities; and
 - vi. final construction of any control, treatment, disposal and monitoring facilities for leachate, groundwater, surface water and landfill gas;
 - e. a schedule indicating the time-period for implementing conditions 9.1.d.i to 9.1.d.vi above.
 - f. descriptions of the procedures for post-closure care of the Site, including:
 - i. Operation, inspection and maintenance of the control, treatment, disposal and monitoring facilities for leachate, groundwater, surface water and landfill gas;
 - ii. Record keeping and reporting; and
 - iii. Complaint contact and response procedures;
 - g. an assessment of the adequacy of and need to implement the contingency plans for leachate and methane gas; and
 - h. an updated estimate of the Contaminating Life Span of the Site, based on the results of the monitoring programs to date.
2. The Site shall be closed in accordance with the closure plan as approved by the Director.

10. WASTE DIVERSION

1. The recycling depot shall be operated in accordance with Section 19, O. Reg. 101/94” means Ontario Regulation 101: (Recycling and Composting of Municipal Waste).
2. The Owner shall ensure that:

- a. all bins and waste storage areas are clearly labelled;
 - b. all lids or doors on bins shall be kept closed during non-operating hours and during high wind events; and
 - c. if necessary to prevent litter, waste storage areas shall be covered during high winds events.
3. The Owner/Operator shall remove the refrigerant as defined in O. Reg. 463/10 in accordance with the following:
 - a. all White Goods containing refrigerants which have not been tagged by a licensed technician to verify that the equipment no longer contains refrigerants, shall be stored in a separate area in an upright position; and
 - b. White Goods containing refrigerants received at the Site shall be shipped off-Site in order to have the refrigerants removed by a licensed technician in accordance with O. Reg. 463/10; or
 - c. the refrigerant shall be removed at the Site by a licensed technician, in accordance with O. Reg. 463/10, prior to shipping White Goods off-Site; and
 - d. a detailed log of all White Goods containing refrigerants received shall be maintained. The log shall include the following:
 - i. date of the record;
 - ii. types, quantities and source of White Goods containing refrigerants received;
 - iii. details on removal of refrigerants as required by O. Reg. 463/10; and
 - iv. the quantities and destination of the White Goods and/or refrigerants transferred from the Site.
4. The Owner shall transfer waste and recyclable materials from the Site as follows:
 - a. recyclable materials shall be transferred off-site once their storage bins are full;
 - b. scrap metal shall be transferred off-site at least once a year;
 - c. tires shall be transferred off-site as soon as a load for the contractor hired by the Owner has accumulated or as soon as the accumulated volume exceeds the storage capacity of its bunker;
 - d. waste destined for disposal at the landfill, deposited in the bins outside the gate shall be moved to the tipping face at least once per week; and
 - e. immediately, in the event that waste is creating an odour or vector problem.
5. Collection, storage and transfer of Waste Electrical and Electronic Equipment shall be in accordance with the documents in the Schedule 1. If there is any discrepancy between the guideline titled "Collection Site Organizing & Operating Waste Electrical and Electronic Equipment (WEEE) Guidebook" dated November 2012 as amended prepared by Ontario Electronic Stewardship and the documents in Schedule 1, the guideline shall take precedence.

Schedule 1

Supporting Documentation

1. Application for a Certificate of Approval for a Waste Disposal Site dated August 12, 1974 signed by J. T. Mooney, Secretary-Treasurer and attached supporting documentation.
2. Application and supporting documentation for an amendment to existing Waste Disposal Site signed by George E. Johnson, Reeve, The Corporation of the Township of the North Shore, dated July 8, 1998.
3. Report entitled Hydrogeological Study of the Serpent River Landfill prepared for The Corporation of the Township of the North Shore, prepared by Marshall, Macklin, Monaghan, Consulting Engineers, Surveyors and Planners, dated May 1995.
4. Memorandum from M. Puumala, MOE, to Jim Hanson, MOE, dated September 10, 1998, re:groundwater concerns/comments.
5. Letter from Jim Trottier, Northshore Area Biologist, MNR, to M. Burtch, MOE, dated May 13, 1999, re:comments/concerns regarding intermittent creek adjacent to Waste Disposal Site.
6. E-mail letter from J. Parks, MOE, to J. Hansen, MOE, dated June 21, 1999, re: surface water comments/concerns.
7. District Office Report dated July 21, 1999, and signed by M. Burtch and Rod Stewart, MOE.
8. Revised Leachate Contingency Plan, Serpent River Landfill site, Lewis Township, Serpent River, Ontario, prepared by Trow Consulting Engineers Ltd., dated April 29, 2003.
9. Application for an Environmental Compliance Approval for a Waste Disposal Site signed by Brenda Green, Corporation of the Township of the North Shore, dated May 15, 2012.
10. E-mail dated January 24, 2013 from Brenda Green, Corporation of the Township of the North Shore to Roman Lysiak, MOE regarding submission of additional information.
11. Memorandum from Marie Wardman and Rick Talvitie, AECOM, to Ranjani Munasinghe, Ministry of the Environment and Climate Change (MOECC) dated October 6, 2017
Subject:Serpent River Waste Disposal Site - Theoretical Capacity.
12. Electronic mail dated October 18, 2017 (7:35 a.m.) from Marie Wardman AECOM, to Ranjani Munasinghe, Ministry of the Environment and Climate Change (MOECC) Subject:Serpent River Waste Disposal Site - Theoretical Capacity.
13. Environmental Compliance Approval Application dated September 30, 2019 and signed by Mary Lynn Duguay, Clerk/Treasurer, Corporation of the Township of North Shore, including the

attached supporting documentation.

14. Report titled "Serpent River Waste Disposal Site - Design and Operations Report" dated October 2019, prepared by AECOM Canada Ltd.
15. Environmental Compliance Approval Application dated March 17, 2020 and signed by Mary Lynn Duguay, Clerk/Treasurer, The Corporation of the Township of the North Shore, including the attached supporting documentation.
16. Report titled "Serpent River Waste Disposal Site - Design and Operations Report" dated March 2020, prepared by AECOM Canada Ltd.
17. Figure 1 titled "Surface Water Stations, Serpent River Waste Disposal Site Expansion, Municipality of the North Shore" dated November 2021 prepared by AECOM.

**Schedule 2
Interim Surface Water Monitoring Program**

Activity	Locations	Frequency	Event	Parameters
Surface Water Monitoring and Sampling	Seep(s), SW1, SW2, SW2B, SW4, SW4B, SW5, SW6, SW7, SW8, SW9, SW10	4 times per year (spring, summer, fall, winter)	Spring, Fall	<p>Field Parameters: pH, conductivity, temperature, dissolved oxygen and flow.</p> <p>Schedule 5, Column 3 of the Landfill Standards Laboratory Parameters (if water is present at time of monitoring):</p> <p>Alkalinity, ammonia, arsenic, barium, boron, cadmium, chloride, chromium, conductivity, copper, iron, lead, mercury, nitrate, nitrite, total Kjeldahl nitrogen, pH, total phosphorus, total suspended solids, total dissolved solids, sulphate, zinc (total and dissolved), BOD, COD, phenol.</p> <p>Additional Parameters: Manganese (total and dissolved), cobalt, hardness, dissolved organic carbon, Calculation of un-ionized ammonia</p>
			Summer, Winter	<p>Field Parameters: pH, conductivity, temperature, dissolved oxygen and flow.</p> <p>Schedule 5, Column 4 of the Landfill Standards Laboratory Parameters (if water is flowing at time of monitoring):</p> <p>Alkalinity, ammonia, chloride, conductivity, iron, nitrate, nitrite, total Kjeldahl nitrogen, pH, total phosphorus, total suspended solids, total dissolved solids, sulphate, BOD, COD, phenol.</p> <p>Additional Parameters: Hardness</p>
Benthic Invertebrate Survey	SW6 and one location in the Eastern Ditch	A total of two surveys to be completed	Spring 2022 and Spring 2024	Benthic invertebrate surveys conducted following Ontario Benthos Biomonitoring Network (OBBN) protocols.

**Schedule 3
Interim Groundwater Monitoring Program**

Activity	Locations	Frequency	Parameters
Measure Water Levels	All Existing Monitoring Wells: BWG, OW3-4, OW3-11, OW4-7, OW6-10, OW7-4, OW9-6, OW14-I, OW15-I, OW15-II, OW16-I, OW16-II, OW17-I, OW17-II, OW1-6R*, BWG2**	3 times per year (spring, summer, fall)	N/A
Groundwater Sampling	All Existing Monitoring Wells: BWG, OW3-4, OW3-11, OW4-7, OW6-10, OW7-4, OW9-6, OW14-I, OW15-I, OW15-II, OW16-I, OW16-II, OW17-I, OW17-II, OW1-6R*, BWG2**	3 times per year (spring, summer, fall)	Field Parameters: pH, conductivity, temperature Schedule 5, Column 1 of the Landfill Standards Laboratory Parameters: Alkalinity, ammonia, arsenic, barium, boron, cadmium, calcium, chloride, chromium, conductivity, copper, iron, lead, magnesium, manganese, mercury, nitrate, nitrite, total Kjeldahl nitrogen, pH, total phosphorus, potassium, sodium, total dissolved solids, sulphate, zinc, COD, DOC, phenol
VOC Sampling	OW3-4, OW4-7, OW6-10, OW14-I, BWG2**	3 times per year (spring, summer, fall)	Full VOC Scan

* New monitoring well to be installed as a replacement for OW 1-6 or to be located west of the waste fill area.

** New background monitoring well located to the north of the waste fill area.

The reasons for the imposition of these terms and conditions are as follows:

- The reason for conditions 1.1, 1.2, 1.6, 1.7, 1.8, 1.9, 1.10, 1.11, 1.12, 1.20, 1.21 and 1.22 is to clarify the legal rights and responsibilities of the Owner and Operator under this Approval.
- The reasons for condition 1.3, 1.4, 1.5, 7.5 and 7.8 are to ensure that the Site is designed, operated, monitored and maintained in accordance with the application and supporting documentation submitted by the Owner, and not in a manner which the Director has not been asked to consider.
- The reasons for condition 1.13 are to ensure that the Site is operated under the corporate name which appears on the application form submitted for this approval and to ensure that the Director is informed of any changes.
- The reasons for condition 1.14 are to restrict potential transfer or encumbrance of the Site without the approval of the Director and to ensure that any transfer of encumbrance can be made only on the basis that it will not endanger compliance with this Approval.
- The reason for condition 1.15 is to ensure that the successor is aware of its legal responsibilities.
- The reasons for conditions 1.16, 1.17 and 1.18 are that the Part II.1 Director is an individual with authority pursuant to Section 197 of the Environmental Protection Act to require registration on title and provide any person with an interest in property before dealing with the property in any way to give a copy of the Approval to any person who will acquire an interest in the property as a result of the dealing.
- The reason for condition 1.19 is to ensure that appropriate Ministry staff has ready access to the Site for inspection of facilities, equipment, practices and operations required by the conditions in this Approval. This condition is supplementary to the powers of entry afforded a Provincial Officer pursuant to the Act, the OWRA, the PA, the NMA and the SDWA.
- Condition 1.23 has been included in order to clarify what information may be subject to the Freedom of Information Act.

SITE OPERATION

- The reasons for conditions 2.1, 2.5 and 6.3 are to ensure that the Site is operated, inspected and maintained in an environmentally acceptable manner and does not result in a hazard or nuisance to the natural environment or any person.
- The reason for conditions 2.2, 2.3 and 2.4 is to ensure that users of the Site are fully aware of important information and restrictions related to Site operations and access under this Approval.

- The reasons for condition 2.6.a and 2.6.b are open burning of municipal waste is unacceptable because of concerns with air emissions, smoke and other nuisance effects, and the potential fire hazard and to make sure burning of brush and wood are carried out in accordance with Ministry guidelines.
- The reasons for condition 2.7 and 2.8 are to specify the hours of operation for the landfill site and a mechanism for amendment of the hours of operation, as required.
- The reasons for condition 2.9 and 2.10 are to ensure that the Site is supervised by properly trained staff in a manner which does not result in a hazard or nuisance to the natural environment or any person and to ensure the controlled access and integrity of the Site by preventing unauthorized access when the Site is closed and no site attendant is on duty.
- Conditions 2.11 to 2.18 inclusive are included to require the Owner to operate the transfer bins located outside the landfill gate to in a manner which does not result in a hazard or nuisance to the natural environment or any person.

EMPLOYEE TRAINING

- The reason for condition 3.1 is to ensure that the Site is supervised and operated by properly trained staff in a manner which does not result in a hazard or nuisance to the natural environment or any person.

COMPLAINTS RESPONSE PROCEDURE

- The reason for condition 4.1 is to ensure that any complaints regarding landfill operations at this Site are responded to in a timely and efficient manner.

EMERGENCY RESPONSE

- Conditions 5.1 and 5.2 are included to ensure that emergency situations are reported to the Ministry to ensure public health and safety and environmental protection.
- Conditions 5.3, 5.4 and 5.5 are included to ensure that emergency situations are handled in a manner to minimize the likelihood of an adverse effect and to ensure public health and safety and environmental protection.

RECORD KEEPING AND REPORTING

- The reason for conditions 6.1 and 6.2 is to ensure that accurate waste records are maintained to ensure compliance with the conditions in this Approval (such as fill rate, site capacity, record keeping, annual reporting, and financial assurance requirements), the EPA and its regulations.
- The reason for conditions 6.4 and 6.5 is to ensure that detailed records of Site inspections are recorded and maintained for inspection and information purposes.

- The reasons for conditions 6.6 and 6.7 are to ensure that regular review of site development, operations and monitoring data is documented and any possible improvements to site design, operations or monitoring programs are identified. An annual report is an important tool used in reviewing site activities and for determining the effectiveness of site design.

LANDFILL DESIGN AND DEVELOPMENT

- The reason for conditions 7.1, 7.2, 7.3, 7.4, 7.5 and 7.9 inclusive is to specify the approved areas from which waste may be accepted at the Site and the types and amounts of waste that may be accepted for disposal at the Site, based on the Owner's application and supporting documentation.
- The reason for condition 7.6 is to allow the Owner to provide waste disposal services to the residents of the approved service area while working on bringing the site into compliance with condition 8.2 of this approval.
- The reason for condition 7.8 is to require the Owner to submit an action plan to bring the Site into compliance to District Manger for review and concurrence prior to implementing.
- Condition 7.10 is to provide the Owner the process for getting the approval for alternative daily and intermediate cover material.
- The reasons for condition 7.11 are to ensure that daily/weekly and intermediate cover are used to control potential nuisance effects, to facilitate vehicle access on the Site, and to ensure an acceptable site appearance is maintained. The proper closure of a landfill site requires the application of a final cover which is aesthetically pleasing, controls infiltration, and is suitable for the end use planned for the Site.

LANDFILL MONITORING

- Reasons for condition 8.1 are to ensure that landfill gas is monitored and all buildings at the Site are free of any landfill gas accumulation, which due to a methane gas component may be explosive and thus create a danger to any persons at the Site.
- Condition 8.2 is included to provide the groundwater and surface water limits to prevent water pollution at the Site.
- Conditions 8.3 and 8.4 are included to require the Owner to demonstrate that the Site is performing as designed and the impacts on the natural environment are acceptable. Regular monitoring allows for the analysis of trends over time and ensures that there is an early warning of potential problems so that any necessary remedial/contingency action can be taken.
- Conditions 8.5, 8.6 and 8.7 are included to ensure the integrity of the groundwater monitoring network so that accurate monitoring results are achieved, and the natural environment is

protected.

- Conditions 8.8 to 8.11 inclusive are added to ensure the Owner has a plan with an organized set of procedures for identifying and responding to potential issues relating to groundwater and surface water contamination at the Site's compliance point.
- Conditions 8.12 and 8.13 are included to streamline the approval of the changes to the monitoring plans and trigger mechanisms and contingency plans.

CLOSURE PLAN

- The reasons for Condition 9 are to ensure that final closure of the Site is completed in an aesthetically pleasing manner, in accordance with Ministry standards, and to ensure the long-term protection of the health and safety of the public and the environment.

WASTE DIVERSION

- Condition 10 is included to ensure that the recyclable materials are stored in their temporary storage location and transferred off-site in a manner as to minimize a likelihood of an adverse effect or a hazard to the natural environment or any person.

Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s). A562303 issued on August 21, 2020

In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 142 of the Environmental Protection Act provides that the Notice requiring the hearing shall state:

- a. The portions of the environmental compliance approval or each term or condition in the environmental compliance approval in respect of which the hearing is required, and;
- b. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

Pursuant to subsection 139(3) of the Environmental Protection Act, a hearing may not be required with respect to any terms and conditions in this environmental compliance approval, if the terms and conditions are substantially the same as those contained in an approval that is amended or revoked by this environmental compliance approval.

The Notice should also include:

1. The name of the appellant;
2. The address of the appellant;
3. The environmental compliance approval number;
4. The date of the environmental compliance approval;
5. The name of the Director, and;
6. The municipality or municipalities within which the project is to be engaged in.

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Review Tribunal
655 Bay Street, Suite 1500
Toronto, Ontario
M5G 1E5

AND

The Director appointed for the purposes of Part II.1 of
the Environmental Protection Act
Ministry of the Environment, Conservation and Parks
135 St. Clair Avenue West, 1st Floor
Toronto, Ontario
M4V 1P5

*** Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349, Fax: (416) 326-5370 or www.ert.gov.on.ca**

The above noted activity is approved under s.20.3 of Part II.1 of the Environmental Protection Act.

DATED AT TORONTO this 7th day of December, 2021



Mohsen Keyvani, P.Eng.
Director
appointed for the purposes of Part II.1 of the
Environmental Protection Act

RM/

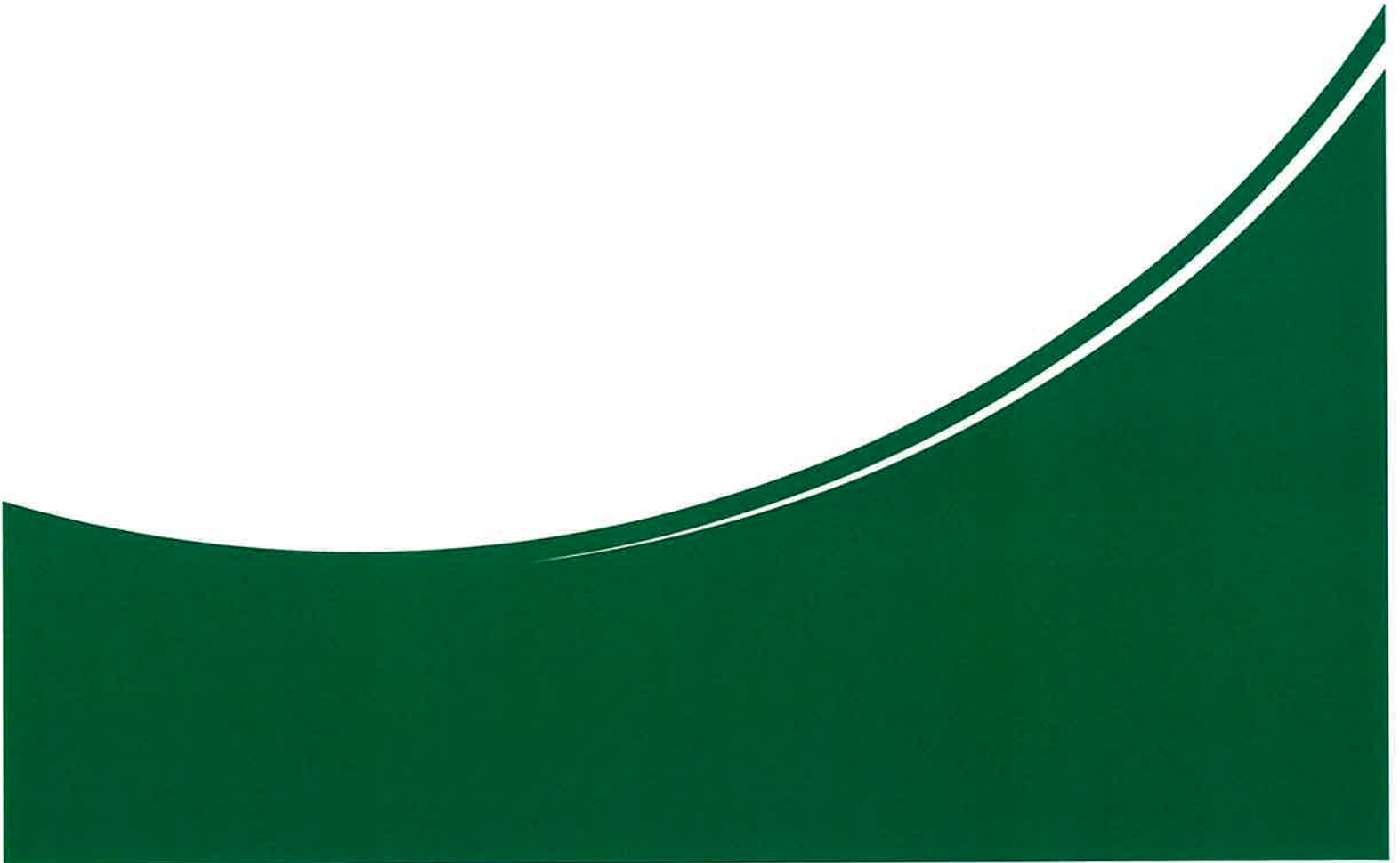
c: Area Manager, MECP Sault Ste. Marie

c: District Manager, MECP Sudbury

Marie Wardman, P. Eng. and Rick Talvitie P. Eng, AECOM Canada Ltd.

Appendix **B**

**2023 Recycling and Waste Data
Provided by the Township**



NORTH SHORE RECYCLING/REFUSE REPORT 2023

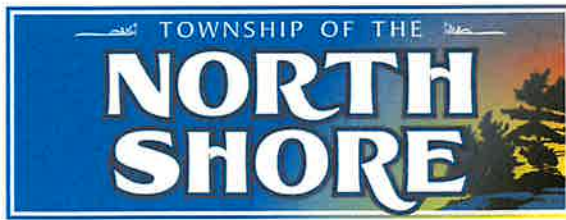
KGS	RECYCLING COMMERCIAL		DEPOT		REFUSE
	FIBER	COMM	FIBER	COMM	CUBIC METER
JANUARY	144		2,009	1,038	107
FEBRUARY	33		986	944	92
MARCH	141		1,462	744	114
APRIL	75		1,742	1,376	104
MAY	244	207	2,546	1,206	125
JUNE	156	195	2,369	979	163
JULY	238	128	3,136	1,324	127
AUGUST	266	269	2,239	2,290	121
SEPTEMBER	178	135	1,749	944	152
OCTOBER	254	105	1,807	1,001	98
NOVEMBER	170	30	1,291	976	96
DECEMBER	223		1,583	881	168
TOTAL	2,122	1,069	22,919	13,703	1,467
TONNES	2.12	1.07	22.92	13.70	
TOTAL TONNES		39.81			

* Please note totals are estimates

AECOM Canada Ltd.
523 Wellington Street East
Sault Ste. Marie, ON P6A 2M4
Canada

T: 705.942.2612
F: 705.998.2397
www.aecom.com

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March 21, 2024

Meeting of April 17, 2024

Council Report

SUBJECT: WASTE MANAGEMENT

RECOMMENDATION: That Council receive the report as presented and that Council provide staff with direction regarding applications for an Environmental Compliance Approval (ECA) and waste management within the Township

Currently the Township of the North Shore has three (3) Transfer Stations:

- eight (8) bins located in Algoma Mills
- four (4) bins located in Spragge
- four (4) bins located in Serpent River.

As Council is currently in Budget deliberations, it was requested that information regarding moving garbage bins within the Township to/from Transfer Sites be brought back to Council.

PLEASE NOTE THAT ALL SCENARIOS LISTED WILL REQUIRE THE APPLICATION AND/OR AMENDMENT OF AN ENVIRONMENTAL COMPLIANCE APPROVAL (ECA), PER THE ENVIRONMENTAL PROTECTION ACT.

An EPA Section 27 – Waste ECA (for transportation, management and/or disposal or certain types of waste (non-hazardous)) is required to be applied for and/or amended for the following:

- Changes to the operating hours of the Transfer stations
- Changes to the operating hours of the Landfill
- Changes to the number of bins at the Transfer stations
- Changes to the sizing of bins at the Transfer stations
- Changes to the number of times the garbage bins are emptied

There will need to be an EPA Section 27 – Waste EPA application and/or amendment for EACH location that requires any of the above listed changes.

Scenario 1 - Purchase additional garbage bins and required fencing

Purchase 2 additional garbage bins for the Algoma Mills Transfer Station and install the required fencing around the bins. The Township would need an Environment Compliance Approval (ECA) in order to add any additional bins.



Approximate costs for Scenario 1 (excluding applicable taxes):

Light Gauge Fencing	\$225.00
Locks for Bins	\$50
6-yard waste bin (\$2000 approximately EACH)	\$4000
Environmental Compliance Approval (ECA)	\$800
TOTAL ESTIMATED COST:	\$5075.00 + applicable taxes

Scenario 2 -Move two (2) bins from the Serpent River OR Spragge Transfer Site to the Algoma Mills Transfer Site and add the required fencing.

Take two (2) of the bins from the Serpent River or Spragge Transfer Station and move them to the Algoma Mills Transfer Station location. Additional fencing would be required behind the bins. The Township would need an Environment Compliance Approval (ECA) for the additional bins at the Algoma Mills Transfer Station AND a separate ECA to remove the bins from either Serpent River or Spragge..

This would leave two (2) green garbage bins at either the Serpent River or Spragge Transfer Station location.



Approximate costs for Scenario 2 (excluding applicable taxes):

Light Gauge Fencing	\$225.00
Locks for Bins	\$50.00
Fee to move bins	UNKNOWN
Environmental Compliance Approvals (ECA)	\$1600
TOTAL ESTIMATED COST:	\$1875.00 + applicable taxes

Scenario 3 - Additional pick-up services by GFL in future

Currently, GFL picks up the Township’s garbage and the recycling at the three (3) transfer station locations once per week at a price of \$37,942.53 for 2024, with an annual increase of 4% (approximately \$729.66/week in 2024), plus applicable taxes.

The Township would need an Environment Compliance Approval (ECA) to increase the amount of garbage pickup.

The current contract with GFL for garbage pick-up services will end on December 31st, 2026. It is not recommended to break the current contract.

Approximate costs for Scenario 3 (excluding applicable taxes):

Additional garbage pickup added to potential future contract	UNKNOWN
Environmental Compliance Approval (ECA)	\$800
TOTAL ESTIMATED COST:	UNKNOWN

Scenario 4 – Open Landfill additional day per week

Currently, the Landfill is open on Wednesdays and Saturdays (hours vary depending on day and season). If the Landfill is to be open for an additional day per week, the Township’s costs would be the hourly rate plus mandatory employment related costs of the Landfill Site Attendant, and an Environment Compliance Approval (ECA) to increase the number of days the Landfill Site is open.

Approximate costs for Scenario 4 (excluding applicable taxes):

Hourly rate plus mandatory employment related costs for Landfill Site Attendant	Extra hours of work would need to be decided by Council in order to provide an approximation
Environmental Compliance Approval (ECA)	\$800
TOTAL ESTIMATED COST:	UNKNOWN

Scenario 5 – Open Landfill 7 days per week and close all Transfer Stations

Close all three Transfer Station locations and open the Landfill every day of the week with the Landfill Site Attendant present to verify IDs. This will ensure that residents are charged for non-household garbage, which will create more revenue for the Township (tipping fees for construction material). It will also ensure that only residents are bringing garbage to the Landfill, will increase the control the Township will have on what enters the Landfill, and will, as a result, extend the life of the Landfill.

The Township will need an Environment Compliance Approval (ECA) to open the Landfill for additional days and for EACH Transfer Station to remove the bins.

The Landfill Site is located in Serpent River, approximately 25km (or 17 mins) from the Township’s Western boundary line.

Approximate costs for Scenario 5 (excluding applicable taxes):

Hourly rate plus mandatory employment related costs for Landfill Site Attendant	Hours of work would need to be decided by Council in order to provide an approximation
Environmental Compliance Approval (ECA)	\$3200.00
TOTAL ESTIMATED COST:	UNKNOWN

Additional Information to Consider:

The Township’s Landfill is currently at capacity, and there is an expansion application in place that is still under review with the Ministry.

The Algoma Mills transfer stations currently has two (2) problems:

1. Non-residents are using the transfer station
2. Residents and non-residents are dumping items other than household garbage, including construction materials.

Adding more bins to the Algoma Mills Transfer Station will result in more garbage being entered into our Landfill. If the Landfill reaches its capacity, taxpayers will either need to pay for a new Landfill or will need to pay for the transportation of the garbage to a location that will allow the Township to dump its garbage (both of these avenues are very expensive).

Prepared by/Submitted by:

Matt Simon, Public Works Manager/Fire Chief
Rachel Schneider, Municipal Clerk/Deputy Treasurer

CA



Ministry of Finance

Provincial-Local Finance Division

Frost Building North
95 Grosvenor Street
Toronto ON M7A 1Z1

Fax: 1 888 333-2138

Ministère des Finances

Division des relations provinciales
municipales en matière de finances

Édifice Frost nord
95 rue Grosvenor
Toronto ON M7A 1Z1

Télééc. : 1 888 333-2138

April 4, 2024

Dear Municipal Treasurer / Clerk-Treasurer:

I am writing to inform you of a few announcements related to municipal taxation made in the 2024 Ontario Budget, including:

1. A new property tax option available to municipalities.
2. Extension of Municipal Vacant Home Tax authority, as well as the release of a Provincial Policy Framework.

Taxation of new multi-residential rental properties

Ontario is committed to addressing the current housing crisis and increasing housing affordability for the people of Ontario. To further encourage the development of purpose-built rental properties, effective immediately, Ontario is providing municipalities with the flexibility to offer a reduced municipal property tax rate on new multi-residential rental properties.

Municipalities will be able to offer this type of tax reduction through the adoption of an optional new multi-residential property subclass within the new multi-residential property class.

Single-tier or upper-tier municipalities that are interested in offering a reduced municipal property tax rate can do so by passing a municipal by-law adopting the subclass and setting a reduction percentage of up to 35%, as determined by the municipality.

Only new multi-residential developments would qualify for a reduced property tax rate, pursuant to a building permit issued on or after an effective date specified in the municipal by-law. Consistent with the approach taken for the previously implemented new multi-residential property class, a property would be subject to the tax reduction once construction has been completed and the building is ready for occupancy. The property would benefit from a reduced rate for a period of 35 years.

Amendments have been made to regulations under the *Assessment Act*, *Municipal Act, 2001*, and the *City of Toronto Act, 2006*. These enabling regulations are available on e-laws at the following links:

- [O. Reg. 140/24: GENERAL \(ontario.ca\)](#)

- [O. Reg. 141/24: TAX MATTERS – SPECIAL TAX RATES AND LIMITS \(ontario.ca\)](#)
- [O. Reg. 142/24: TRADITIONAL MUNICIPAL TAXES, LIMITS AND COLLECTION \(ontario.ca\)](#)

If you have any questions related to this new flexibility, please contact Chris Broughton, Director of the Property Tax Policy Branch at Chris.Broughton@ontario.ca or 416-455-6307.

Municipal Vacant Home Taxes

An unoccupied home is unacceptable in a housing crisis. That is why Ontario is empowering municipalities to make more vacant homes available for housing.

Ontario has responded to municipal requests for additional clarity and flexibility around the existing municipal Vacant Home Tax authority by:

- Extending authority broadly to all single- and upper-tier municipalities to impose a tax on vacant homes, effective immediately.
- Releasing a Provincial Policy Framework. Municipalities will be supported with a new Provincial Policy Framework that sets out best practices for implementing a Vacant Home Tax. The Framework will also encourage municipalities to set a higher Vacant Home Tax rate for foreign-owned vacant homes.

Amendments have been made to the relevant regulations under the *Municipal Act, 2001*. This enabling regulation is available on e-laws at the following link:

- [O. Reg. 143/24: OPTIONAL TAX ON VACANT RESIDENTIAL UNITS - DESIGNATED MUNICIPALITIES](#)

The Provincial Policy Framework for municipal Vacant Home Taxes has been released, and is available at:

- [Provincial Policy Framework](#)

If you have any questions related to the Municipal Vacant Home Tax authority, please contact Mary Iannaci, Director of the Municipal Funding Policy Branch at Mary.Iannaci@ontario.ca or 647-407-0820.

Sincerely,



Ian Freeman, CPA, CMA
Assistant Deputy Minister
Provincial-Local Finance Division

BY-LAW 24-19

THE CORPORATION OF THE TOWNSHIP OF THE NORTH SHORE

**Being a bylaw to confirm the proceedings of Council
at its Regular Council Meeting of April 17th, 2024.**

The Council of the Corporation of the Township of The North Shore hereby enacts as follows:

WHEREAS Section 5(3) of the *Municipal Act, 2001, S. O. 2001, c.25*, as amended requires municipal Council to exercise a municipal power including a municipality’s capacity, rights, powers and privileges under Section 9, by by-law unless the municipality is specifically authorized to do otherwise;

AND WHEREAS the Corporation of the Township of the North Shore deems it desirable to confirm the proceedings of Council at its Regular Council Meeting of April 17th, 2024.

NOW THEREFORE the Council of the Corporation of the Township of the North Shore hereby enacts as follows:

1. That each motion, resolution, and other action passed and taken by the Council at its Regular Council meeting of April 17th, 2024, is hereby adopted, and ratified and confirmed.
2. The Head of Council and the proper officers of the Corporation of the Township of the North Shore are hereby authorized and directed to do all things necessary to give effect to the said action or to obtain approval where required and except where otherwise provided, the Mayor and the Clerk, or if absent, the designate, are hereby directed to affix the Corporate Seal of the Municipality to all such documents.

**READ A FIRST, SECOND AND THIRD TIME ENACTED AND FINALLY PASSED
THIS 17th DAY OF APRIL 2024.**

Tony Moor, Mayor

Rachel Jean Schneider, Clerk/Deputy Treasurer