



4th Quarter 2022 Drinking Water Quality Management Standard Report to Members of Council

This report is to summarize the activities of the Roads and Public Works Department (water distribution system) for the period of October 1st, 2022 through to December 31, 2022.

Operational Plan Revisions

There were no changes made to the operational plan during the fourth quarter:

Internal Audits

The annually conducted internal audit was completed by staff during this quarter and finalized on December 7, 2022. The following administrative non-conformance was identified during the audit.

Nonconformance Element 7 – Risk Assessment: It was expected during the audit that the risk assessment would consider the reliability and redundancy of equipment. However the Risk Assessment did not directly consider the reliability and redundancy of equipment as it relates to the Mississippi Mills Drinking Water System. The corrective action for this nonconformance item will be addressed by the Environmental Compliance Coordinator no later than March 31, 2023.

Additionally, the internal audit found seven opportunities for improvement which were all minor in nature.

External Audits

The Municipality's DWQMS Certification Surveillance System Audit of the Municipality's QMS-Operational Plan (OAP-178) was completed. The process included an off-site audit on March 1, 2022. The Municipality was provided its Audit Report for the audit on March 9, 2022 indicating that the Municipality is in 100% conformance.

Status of License

The certificate of full-scope accreditation for our QMS – Operational Plan (OAP-178) currently posted with our sub-system licenses was issued on May 28, 2021.

The Municipality's Municipal Drinking Water License (MDWL) was renewed on November 26, 2021 and will expire on November 25, 2026. The Municipality's Drinking Water Works Permit (DWWP) expires on August 31, 2027.

Drinking Water Quality

Customer Service Inquiries

During the fourth quarter of 2022, 13 (thirteen) inquiries received relating to water supply and/or qualities are summarized as follows:

Concern	Quantity	Results
Water Meter Issue	1	Slight leak at meter. Required additional tightening.
Inoperable Service Valve	1	Replaced service valve and standpost.
High Water Consumption	3	1- Data logged water meter, determined consumption normal. 2 Determined cause of high consumption to be internal plumbing issue. 3 -Replaced meter, high usage persisted. Determined to be internal plumbing issue..
Water Quality	2	1- Concerns regarding water quality, tested pH and chlorine residual and found both parameters to be within normal range. 2- Concerns regarding inorganic material content tested after water softener. Staff explained that testing water post-softener is not indicative of true water quality.
Low Water Pressure	2	1- Staff found issues with internal plumbing causing low pressure. 2- Staff determined that a second service valve was leaking that was within an easement and identified as private plumbing.
Water Aesthetic	2	1- Report of discoloured water, noted to be due to flushing occurring in neighborhood. 2- No abnormalities in system, noted that it could be caused by water softener or hot water tank.
Service Shut-Off Request	2	1- Resident requested service to be shut off and meter removed for demolition. 2- Shut off requested for internal plumbing work.

Adverse Water Quality Incidents

There were no reportable adverse quality incidents in the third quarter (per Ontario Regulation 170/03).

Management Review

The annual Management Review was completed during this quarter. A copy of the meeting minutes will be included on the DWQMS Q1 report.

Operational Activities

The following activities have been initiated or completed during the fourth quarter:

- Leak detection activities ongoing
- Meter reading

- Meter changes

Water Production Statistics

- Refer to attached Graph / Table.

Upcoming Events / Activities

January

Flushing
Inspections
Meter changes
Locates

February

Flushing
Inspections
Meter changes
Meter readings
Locates

March

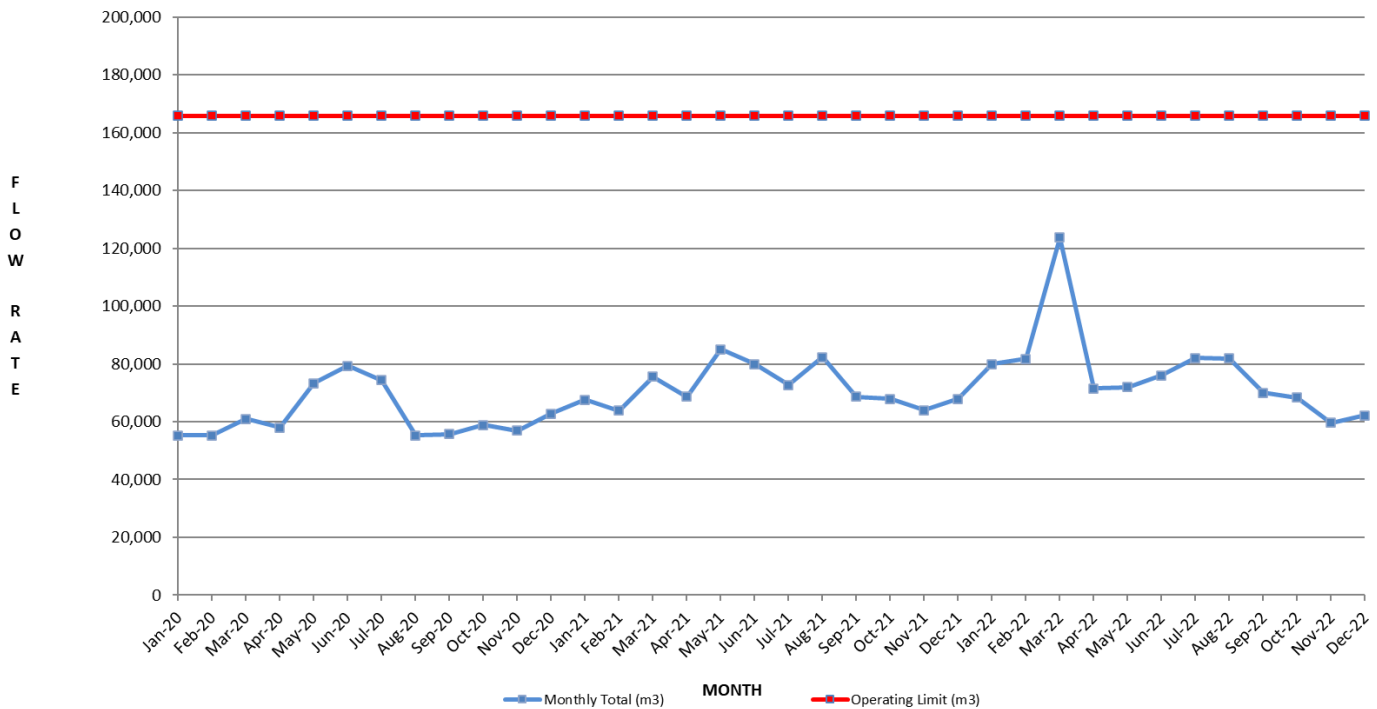
Flushing
Inspections
Meter changes
Locates

Cc: All waterworks staff
Cory Smith, Director of Roads and Public Works



Mississippi
Mills

WTP Treated Water Trending(m³/month)



Mississippi
Mills

WATER TREATMENT PRODUCTION (2022 YEAR TO DATE Q4)

Month/Year	Well 3 Monthly Total (m³)	Well 5 Monthly Total (m³)	Well 6 Monthly Total (m³)	Well 7 Monthly Total (m³)	Well 8 Monthly Total (m³)	Monthly Total (m³)	Operating Limit (m³)
Jan-22	12528.7	9851.9	13873.63	43566.03	157.94	79978.2	165826.8
Feb-22	11467.33	7301.72	12704.3	40301.98	0	81775.36	165826.8
Mar-22	16341.44	10571.59	23724.2	73069.23	0	123706.46	165826.8
Apr-22	9977.12	7392.66	7466.95	46615.58	0	71452.31	165826.8
May-22	6667.44	4352.86	7094.04	32593.22	21287.5	71995.06	165826.8
Jun-22	6449.49	4225.99	7183.43	28933.71	29231.59	76024.21	165826.8
Jul-22	5922.79	3868.63	5752.76	34124.41	32329.73	81998.32	165826.8
Aug-22	6200.59	4028.31	6692.73	32850.19	32118.04	81889.86	165826.8
Sep-22	5649.79	3910.31	6552.82	27314.44	26852.92	70010.28	165826.8
Oct-22	4911.29	3297.91	5492.87	27603.5	26974.32	68279.89	165826.8
Nov-22	4050.2	2669.51	3872.42	24821.12	24154.14	59567.39	165826.8
Dec-22	3087.22	2813.78	4735.13	26079.25	25394.18	62109.56	165826.8