



SAUGEEN SHORES DRINKING WATER SYSTEM

PERFORMANCE REPORT

**For the period of
JANUARY 1, 2022 TO DECEMBER 31, 2022**

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Reviewed by: Dan MacLeod, Senior Operations Manager



1. Process Performance & Regulatory Compliance

1.1 Summary of Non-Compliances & AWQIs

From **January 2022** to **December 2022**:

- Number of Non-Compliances = **1**
- Number of Adverse Water Quality Incidents (AWQIs) = **0**

The Saugeen Shores DWS regulated under:

- Municipal Drinking Water License (MDWL) 093-101, (Issue Number: 2, expires April 28, 2021) and;
- Permit To Take Water PTTW 1133-AQQLPH (September 22, 2017 – September 30, 2027) and;
- Ontario Regulation 170/03

2022	Non-Compliances	AWQIs
January	0	0
February	0	0
March	0	0
April	0	0
May	1	0
June	0	0
July	0	0
August	0	0
September	0	0
October	0	0
November	0	0
December	0	0

Description of Non-Compliances

The following is a summary of the requirements of the Act, the regulations, the system’s approval, drinking water works permit, municipal drinking water license, and any orders applicable to the system that were not met at any time during the time period covered by this report; as well as the duration of the failure and the measures that were taken to correct the failure:

Non-Compliance(s)	Duration	Required Actions & Corrective Actions
The microbiological samples for the week of May 24-27, 2022 arrived late at the lab due to a courier issue. The re-samples taken on May 26, 2022 were past the 5-10 days specified in O. Reg 170/03.	n/a	<ul style="list-style-type: none"> - Re-samples were taken on May 26, 2022 and sent to the lab right away. - The lab followed up with Purolator. - The sampling schedule for the week of May 30-June 3 was adjusted to assure the samples are taken 5 to 10 days from the samples taken May 26.

Description of AWQIs

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

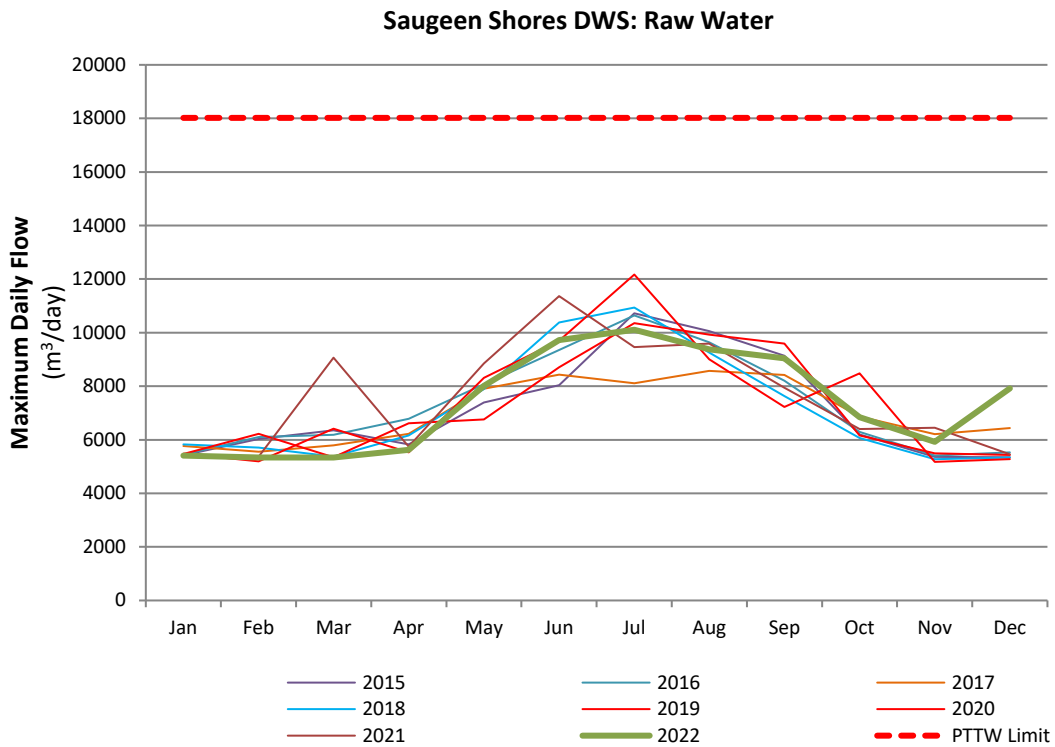
Date of Incident (yyyy/mm/dd)	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date (yyyy/mm/dd)
n/a	n/a	n/a	n/a	n/a	n/a

1.1.1 Flow & Flow Rate

Raw Water Flow

During this time period, the Saugeen Shores DWS raw water taking was within the limits of the Permit to Take Water (PTTW) 5384-78RK2E.

	Maximum Daily Flow (m ³)	Within Limits (18,020 m ³)
January	5,412	Yes
February	5,339	Yes
March	5,340	Yes
April	5,621	Yes
May	8,020	Yes
June	9,727	Yes
July	10,108	Yes
August	9,380	Yes
September	9,047	Yes
October	6,840	Yes
November	5,919	Yes
December	7,924	Yes



Raw Water Flow Rate

During this time period, the Saugeen Shores DWS raw water taking was within the limits of the Permit to Take Water (PTTW) 5384-78RK2E.

	Average Flowrate (l/s)	Maximum Flowrate (l/s)	Within Limits (18,000 L/min = 300 L/s)
January	53.50	181.88	Yes
February	56.87	224.35	Yes
March	57.39	193.54	Yes
April	58.55	212.27	Yes
May	72.33	250.10	Yes
June	85.45	227.99	Yes
July	100.04	237.89	Yes
August	94.80	230.10	Yes
September	83.32	226.88	Yes
October	66.52	212.25	Yes
November	62.33	213.99	Yes
December	60.84	218.27	Yes

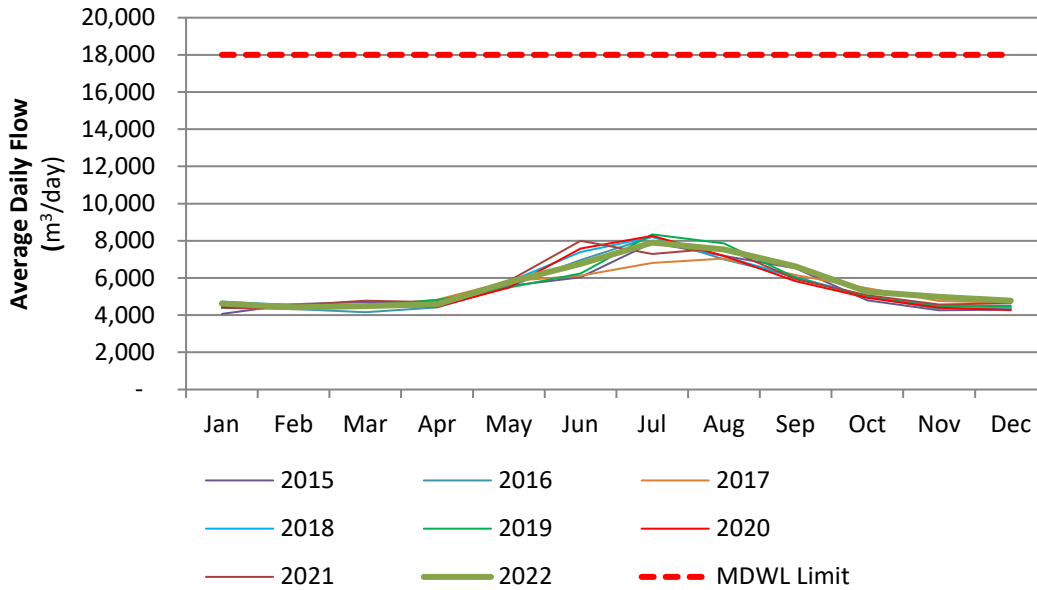
Treated Water Flow

During this time period, the Saugeen Shores DWS operated **within the rated capacity** set out in the MDWL.

	Average Flow (m ³ /day)	% of Rated Capacity	Maximum Flow (m ³ /day)	% of Rated Capacity	Within Limits (18,000 m ³ /d*)
January	4,623	25.7%	4,909	27.3%	Yes
February	4,420	24.6%	4,799	26.7%	Yes
March	4,489	24.9%	4,776	26.5%	Yes
April	4,587	25.5%	5,094	28.3%	Yes
May	5,771	32.1%	7,382	41.0%	Yes
June	6,761	37.6%	8,950	49.7%	Yes
July	7,904	43.9%	9,243	51.4%	Yes
August	7,541	41.9%	8,852	49.2%	Yes
September	6,617	36.8%	8,403	46.7%	Yes
October	5,268	29.3%	6,350	35.3%	Yes
November	4,993	27.7%	5,495	30.5%	Yes
December	4,773	26.5%	6,769	37.6%	Yes

* The rated capacity of 18,000 m³/d is the regulatory limit set out in the MDWL and the PTTW. This is higher than the observed operational capacity of the Water Treatment Plant.

Saugeen Shores DWS: Treated Water



Comparison of Treated Water Flow to Previous Years

The treated water average daily flows are very consistent over the last 5 years. Increased usage occurs during the summer months caused by increased seasonal property use and warm temperatures.

Treated Water Flow Rate

	Zone 1		Zone 2	
	Average Flow Rate (l/s)	Maximum Flow Rate (l/s)	Average Flow Rate (l/s)	Maximum Flow Rate (l/s)
January	19.98	69.27	33.53	113.36
February	19.25	69.27	31.90	112.50
March	18.79	69.15	33.17	138.36
April	19.74	69.09	33.34	115.83
May	24.75	155.46*	42.04	159.89*
June	28.49	69.74	49.76	115.92
July	34.26	69.50	57.23	117.35
August	32.64	69.65	54.63	114.19
September	27.78	69.63	48.81	114.98
October	21.71	69.74	39.26	117.10
November	19.10	69.66	38.70	115.64
December	18.54	69.49	36.70	115.46

*Flow meter calibrations

1.1.2 Water Quality

Microbiological Testing

Raw Water*

	# of Samples		E.Coli (cfu/100mL)			Total Coliforms (cfu/100mL)		
	Required	Actual	Minimum	Maximum	Within Limits?*	Minimum	Maximum	Within Limits?*
January	4	4	0	0	n/a	1	560	n/a
February	4	6	0	1	n/a	1	540	n/a
March	4	4	0	20	n/a	33	1640	n/a
April	4	4	0	20	n/a	15	2260	n/a
May	5	5	0	0	n/a	0	15	n/a
June	4	4	0	2	n/a	0	17	n/a
July	4	4	0	0	n/a	0	6	n/a
August	5	5	0	2	n/a	4	30	n/a
September	4	4	0	6	n/a	1	33	n/a
October	5	5	0	NDOGT**	n/a	380	NDOGT**	n/a
November	4	4	20	NDOGT**	n/a	540	NDOGT**	n/a
December	4	4	0	NDOGT**	n/a	31	NDOGT**	n/a

*Raw water bacteriological samples do not have regulatory limits. **NDOGT=No Data Overgrown with Target Bacteria

Treated Water

	# of Samples		E. Coli (cfu/100mL)			Total Coliforms (cfu/100mL)		
	Required	Actual	Min.	Max.	Within Limits?	Min.	Max.	Within Limits?
January	4	4	0	0	Yes	0	0	Yes
February	4	6	0	0	Yes	0	0	Yes
March	4	4	0	0	Yes	0	0	Yes
April	4	4	0	0	Yes	0	0	Yes
May	5	5	0	0	Yes	0	0	Yes
June	4	4	0	0	Yes	0	0	Yes
July	4	4	0	0	Yes	0	0	Yes
August	5	5	0	0	Yes	0	0	Yes
September	4	4	0	0	Yes	0	0	Yes
October	5	5	0	0	Yes	0	0	Yes
November	4	5	0	0	Yes	0	0	Yes
December	4	4	0	0	Yes	0	0	Yes

	HPC** (cfu/1mL)				
	Required # of Samples	Actual # of Samples	Min.	Max.	Within Limits?
January	4	4	0	0	n/a
February	4	6	0	0	n/a
March	4	4	0	0	n/a
April	4	4	0	0	n/a
May	5	5	0	1	n/a
June	4	4	0	0	n/a
July	4	4	0	2	n/a
August	5	5	0	2	n/a
September	4	4	0	1	n/a
October	5	5	0	1	n/a
November	4	5	0	2	n/a
December	4	4	0	0	n/a

**There is no regulatory limit for Heterotrophic Plate Count (HPC); it is used as an indicator test.

Distribution Water

	# of Samples		E. Coli (cfu/100mL)			Total Coliforms (cfu/100mL)		
	Required	Actual	Min.	Max.	Within Limits?	Min.	Max.	Within Limits?
January	22	28	0	0	Yes	0	0	Yes
February	22	35	0	0	Yes	0	0	Yes
March	22	32	0	0	Yes	0	0	Yes
April	22	28	0	0	Yes	0	0	Yes
May	22	35	0	0	Yes	0	0	Yes
June	22	28	0	0	Yes	0	0	Yes
July	22	28	0	0	Yes	0	0	Yes
August	22	35	0	0	Yes	0	0	Yes
September	22	28	0	0	Yes	0	0	Yes
October	22	31	0	0	Yes	0	0	Yes
November	22	32	0	0	Yes	0	0	Yes
December	22	28	0	0	Yes	0	0	Yes

	HPC** (cfu/1mL)			
	Actual # of Samples	Min.	Max.	Within Limits?
January	8	0	2	n/a
February	11	0	1	n/a
March	9	0	3	n/a
April	8	0	1	n/a
May	10	0	1	n/a
June	8	0	11	n/a
July	8	0	1	n/a
August	10	0	5	n/a
September	8	0	9	n/a
October	9	0	1	n/a
November	9	0	2	n/a
December	8	0	1	n/a

**There is no regulatory limit for Heterotrophic Plate Count (HPC); it is used as an indicator test. At least 25% of distribution samples must be tested for Heterotrophic Plate Count (HPC).

Operational Testing

Some of the key parameters which are monitored on a regular basis include:

- Filter turbidity (continuous monitoring)
- Distribution water free chlorine residual (continuous monitoring)
- Membrane Waste Treatment System total suspended solids (TSS)

Filter Turbidity

	Filter 1 Turbidity (NTU)		Filter 2 Turbidity (NTU)		Filter 3 Turbidity (NTU)		Filter 4 Turbidity (NTU)	
	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
January	0.012	0.050	0.010	0.093	0.015	0.069	0.014	0.088
February	0.013	0.058	0.011	0.107	0.015	0.085	0.014	0.024
March	0.013	0.050	0.012	0.077	0.016	0.048	0.014	0.095
April	0.013	0.047	0.011	0.088	0.016	0.074	0.016	0.242
May	0.010	0.067	0.011	0.054	0.010	0.031	0.010	0.036
June	0.010	0.131	0.011	0.080	0.010	0.034	0.009	0.028
July	0.010	0.507	0.012	0.022	0.010	0.033	0.009	0.024
August	0.010	0.067	0.012	0.073	0.010	0.051	0.009	0.010
September	0.010	0.065	0.012	0.094	0.010	0.082	0.009	0.024
October	0.010	0.382	0.012	0.062	0.011	0.024	0.009	0.045
November	0.011	0.090	0.014	0.060	0.013	0.030	0.009	0.015
December	0.012	0.030	0.016	0.064	0.014	0.055	0.009	0.019

Filter Efficiency

For membrane filtration, it is required that the filter water turbidity be less than or equal to 0.1 NTU in 99% measurements of each month.

	Membrane Filters 1 – 4	
	Efficiency (% < 0.1 NTU)	Within Limits? (>99%)
January	100.00%	Yes
February	99.998%	Yes
March	100.00%	Yes
April	99.969%	Yes
May	100.00%	Yes
June	99.994%	Yes
July	99.988%	Yes
August	100.00%	Yes
September	100.00%	Yes
October	99.983%	Yes
November	100.00%	Yes
December	100.00%	Yes

Membrane Waste Treatment System

The Municipal Drinking Water License requires a monthly grab sample to be collected from the membrane waste treatment system and tested for suspended solids.

Membrane Waste Treatment System				
	TSS (mg/L)	Within Limits? ($<25\text{mg/L}$)	Running Annual Average Concentration (mg/L)	Within Limits? ($<15\text{ mg/L}$)
January	2	Yes	2.25	Yes
February	<2	Yes	2.25	Yes
March	<2	Yes	2.25	Yes
April	3	Yes	2.33	Yes
May	<2	Yes	2.33	Yes
June	<2	Yes	2.33	Yes
July	<2	Yes	2.33	Yes
August	2	Yes	2.17	Yes
September	<2	Yes	2.17	Yes
October	2	Yes	2.17	Yes
November	3	Yes	2.17	Yes
December	<2	Yes	2.17	Yes

Treated Water Free Chlorine Residual

	Zone 1			Zone 2		
	Minimum (mg/L)	Maximum (mg/L)	Within Limits? ($>0.50\text{ mg/L}$)	Minimum (mg/L)	Maximum (mg/L)	Within Limits? ($>0.50\text{ mg/L}$)
January	1.36	1.71	Yes	1.35	1.76	Yes
February	1.31	1.79	Yes	1.19	1.62	Yes
March	1.35	1.79	Yes	1.28	1.77	Yes
April	1.16	1.85	Yes	1.08	1.83	Yes
May	1.31	1.83	Yes	1.28	1.77	Yes
June	1.34	1.67	Yes	1.26	1.70	Yes
July	1.31	1.93	Yes	1.33	1.74	Yes
August	1.32	1.80	Yes	1.26	1.85	Yes
September	1.43	1.75	Yes	1.32	1.71	Yes
October	1.38	1.64	Yes	1.37	1.70	Yes
November	1.21	1.72	Yes	1.18	1.72	Yes
December	1.34	1.66	Yes	1.30	1.69	Yes

Distribution Water Free Chlorine Residual

	Minimum (mg/L)	Maximum (mg/L)	Within Limits? ($>0.05\text{ mg/L}$)
January	1.17	1.76	Yes
February	0.85	2.12	Yes
March	1.19	1.74	Yes
April	1.03	1.65	Yes
May	0.92	1.62	Yes
June	0.96	1.63	Yes
July	0.85	1.60	Yes
August	0.65	2.00	Yes
September	0.82	2.00	Yes
October	0.88	1.63	Yes
November	1.10	1.70	Yes
December	1.02	1.61	Yes

60 Month (Sodium & Fluoride) Samples

Sodium was last sampled on January 9, 2018 with a result of 6.12 mg/L, which is **within regulatory limits**.

When sodium levels exceed 20 mg/L the local Medical Officer of Health is notified and signs are posted. In accordance with the Technical Support Document for Ontario Drinking Water Standards Objectives and Guidelines (2006), the aesthetic objective for sodium in drinking water is 200 mg/L.

Fluoride was last sampled on January 9, 2018 with a result of 0.08 mg/L, which is **within the regulatory limit of 1.5 mg/L**.

The next set of Sodium and Fluoride samples are scheduled for January 2023.

Annual (Schedule 23 & 24) Samples

On January 4, 2022, annual inorganic and organic (Schedule 23 & 24) samples were collected and analyzed. The samples were within the regulatory limits.

The next set of samples is scheduled for January 2023.

Semi-Annual (Lead, pH and Alkalinity) Samples

Semi-Annual sampling is required twice a year; once in the period from December 15th to April 15th (winter period) and once in the period June 15th to October 15th (summer period). Lead samples are required to be collected at the same time as the Semi-Annual samples on the 3rd year.

Operators collected the most recent set of lead samples in July 2020 the next set of lead samples are scheduled to be collected in the period of December 15, 2022 to April 15, 2023.

The semi-annual samples (pH & Alkalinity) were taken in July 2022 and the next set of samples are scheduled to be collected in the period of December 15, 2021 to April 15, 2023.

	# of Samples	Lead (µg/l)			pH			Alkalinity (mg/L)		
		Min.	Max.	Within Limits? (10 µg/L)	Min.	Max.	Within Limits?	Min.	Max.	Within Limits? (30-500 mg/L)
January	4	-	-	-	7.83	8.00	Yes	99	138	Yes
February	-	-	-	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-
July	4	-	-	-	8.00	8.10	Yes	77	79	Yes
August	-	-	-	-	-	-	-	-	-	-
September	-	-	-	-	-	-	-	-	-	-
October	-	-	-	-	-	-	-	-	-	-
November	-	-	-	-	-	-	-	-	-	-
December	-	-	-	-	-	-	-	-	-	-

Quarterly Samples

Treated water Nitrites and Nitrates as well as distribution water Trihalomethanes and Haloacetic acids are to be sampled and tested on a quarterly basis.

Treated Water: Nitrites

	Concentration (mg/L)	Within Limits? (1 mg/L)
January	<0.003	Yes
February	-	-
March	-	-
April	<0.003	Yes
May	-	-
June	-	-
July	<0.003	Yes
August	-	-
September	-	-
October	<0.003	Yes
November	-	-
December	-	-

Treated Water: Nitrates

	Concentration (mg/L)	Within Limits? (10 mg/L)
January	1.04	Yes
February	-	-
March	-	-
April	0.65	Yes
May	-	-
June	-	-
July	0.32	Yes
August	-	-
September	-	-
October	0.432	Yes
November	-	-
December	-	-

Distribution Water: Trihalomethanes (THMs)

	Concentration (µg/L)	Running Annual Average (µg/L)	Within Limits? (100 µg/L)
January	45.5	44.75	Yes
February	-	-	-
March	-	-	-
April	47.5	43.00	Yes
May	-	-	-
June	-	-	-
July	30.0	42.38	Yes
August	-	-	-
September	-	-	-
October	45.5	42.13	Yes
November	-	-	-
December	-	-	-

Distribution Water: Haloacetic Acids (HAAs)

	Concentration (µg/L)	Running Annual Average (µg/L)	Within Limits? (80 µg/L)
January	45.6	24.84	Yes
February	-	-	-
March	-	-	-
April	36.9	29.75	Yes
May	-	-	-
June	-	-	-
July	11.7	28.88	Yes
August	-	-	-
September	-	-	-
October	21.2	28.85	Yes
November	-	-	-
December	-	-	-

***The limit of 80 µg/L running annual average for HAAs does not come into force until 2020.

1.2 Reporting

A summary of the reports submitted by OCWA to/on behalf of the Town are summarized in the table below:

Report	Submission Frequency	Submit To	Submission Date	Next Report Date
Annual Report (Section 11)	Annually	Owner	February 25, 2022	February 28, 2023
Summary Report (Schedule 22)	Annually	Owner	February 25, 2022	March 31, 2023

1.2.1 Annual Report (Section 11)

As required by Section 11 of O. Reg. 170/03, OCWA prepares a report for the Town that covers the period from January 1 to December 31 by no later than February 28 of the following year. The annual report must:

- a) contain a brief description of the drinking water system, including a list of water treatment chemicals used by the system during the period covered by the report;
- b) summarize any reports made to the Ministry under subsection 18 (1) of the Act or section 16-4 of Schedule 16 during the period covered by the report;
- c) summarize the results of tests required under this Regulation, or under an approval, municipal drinking water licence or order, including an OWRA order, during the period covered by the report and, if tests required under this Regulation in respect of a parameter were not required during that period, summarize the most recent results of tests of that parameter;
- d) describe any corrective actions taken under Schedule 17 or 18 during the period covered by the report;
- e) describe any major expenses incurred during the period covered by the report to install, repair or replace required equipment;
- f) in the case of a large municipal residential system or a small municipal residential system, include a statement of where a report prepared under Schedule 22 will be available for inspection under subsection 12 (4); and
- g) in the case of a large municipal residential system, small municipal residential system or non-municipal year-round residential system, specify the number of points sampled during the periods described in subsection 15.1-4 (2) or subsection 15.1-5 (5) of Schedule 15.1 to the Regulation, the number of samples taken, and the number of points where a sample exceeded the prescribed standard for lead during those periods. O. Reg. 170/03, s. 11 (6); O. Reg. 418/09, s. 8; O. Reg. 458/16, s. 6 (1).

“The owner of a drinking water system shall ensure that a copy of an annual report for the system is given, without charge, to every person who requests a copy. If a drinking water system is connected to and receives all of its drinking water from another drinking water system, the owner of the system that obtains the water shall

ensure that a copy of an annual report for the system from which the water is obtained is given, without charge, to every person who requests a copy. Every time that an annual report is prepared for a drinking water system, the owner of the system shall ensure that effective steps are 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. If the DWS serves more than 10,000 people, the owner of the system shall ensure that a copy of every report prepared under this section is available to the public at no charge on a website on the Internet.”

1.2.2 Summary Report (Schedule 22)

As required by Schedule 22 of O. Reg. 170/03 OCWA prepares a report on behalf of the Town by no later than March 31 each year for the preceding year. This report is to be given to members of council. The report will be submitted to Town staff by March 1, to ensure the members of council receive the report prior to the March 31 deadline.

“The report must,

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

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

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

1.3 Third Party Inspections & Results

The most recent MECP Inspection was performed on **February 9, 2022**. The Inspection Report was issued March 9, 2022 with one (1) non-compliance. An inspection rating of **96.25%** was received.

1.4 Drinking Water Quality Management Standard (DWQMS)

1.4.1 Risk Assessment

As required by the DWQMS, potential hazardous events and associated risks are ranked and control measures/critical control points are identified during the risk assessment process. As required, a risk assessment is conducted at least once every 36 months and the currency of the risk assessment is verified at least once a year.

Risk Assessment Performed	Next Risk Assessment Verification	Next 36 month Assessment Scheduled
July 27, 2022	July 2023	July 2025

1.4.2 Review & Provision of Infrastructure

On an annual basis, Operators submit a list of capital works requirements to the Senior Operations Manager. The Senior Operations Manager conducts a review of the drinking water system's infrastructure to assess its adequacy for the operation and maintenance of the system.

The output of the review is a Summary of Capital Works Recommendations that is submitted to the owner for review and comment (typically in the fall). Together with the owner, timelines and responsibilities for implementation of priority items are determined and documented.

The Senior Operations Manager ensures that results of the review are included as input to the Management Review process.

1.4.3 Internal Audits

Internal audits of our DWQMS are required to occur at least once every twelve months. The last internal audit was completed on **September 9, 2022**. The next internal audit is scheduled for **September 2023**. The purpose of the internal audit is to ensure we meet the requirements of DWQMS, that we do what we say we do, and that we take concrete/measurable steps to improve.

1.4.4 External Audits

Accreditation of an operating authority requires an external audit every year. The audits have a three year cycle, the first year a full scope accreditation audit occurs and the following two years are surveillance audits.

The DWS underwent a Surveillance Audit (S1) on **December 19, 2022**.

The next audit will be a Surveillance Audit (S2) and is scheduled for **December 2023**.

1.4.5 Management Review

The most recent management review occurred on **November 3, 2022**, the next management review is scheduled for **November 2023**. During the management review, participants are required to review:

- a. incidents of regulatory non-compliance,
- b. incidents of adverse drinking-water tests,
- c. deviations from critical control point limits and response actions,
- d. the efficacy of the risk assessment process,
- e. internal and third-party audit results,
- f. results of emergency response testing,
- g. operational performance,
- h. raw water supply and drinking water quality trends,
- i. follow-up on action items from previous management reviews,
- j. the status of management action items identified between reviews,
- k. changes that could affect the Quality Management System,
- l. consumer feedback,
- m. the resources needed to maintain the Quality Management System,
- n. the results of the infrastructure review,
- o. Operational Plan currency, content and updates, and
- p. staff suggestions.
- q. best management practices (BMPs)

2. Operations & Maintenance

2.1 Major & Unscheduled Maintenance Summary

2022	Maintenance Summary
<p>January</p>	<p>LLPS: Switched out both SCBA bottles Changed out raw water sample pump at LLPS and adjusted pressure switch</p> <p>WTP: Train 3 and 4 butterfly valve replacement Repairs on train 1 drain tank Repairs on train 2 cassette A and B Wrapped pipes for trains 3 and 4 with insulation from previous repairs Replaced power board in sc100 for trains 3 and 4.</p> <p>Distribution: Installed new locks on new gates at Southampton water tower Isolated and removed hydrant at 321 Stickle St and reinstalled</p>
<p>February</p>	<p>LLPS: Changed out fan motor for heater at LLPS</p> <p>WTP: Replaced two sections of airline in the WTP basement Lynjo on site for electric testing of motor for HLP23 Repairs to WTP insulation on pipes Replaced relay in soft start HLP23</p> <p>Distribution: Replaced hydrant markers Repair watermain break at Grenville and High St Investigated possible water leak at Madwayosh St and Gosford St Replaced 3/8" copper line on control valve on pump #3 at Reservoir</p>
<p>March</p>	<p>LLPS:</p> <p>WTP: Lynjo on site to replace bearings in P97A recirc pump Repaired hypo leak on pump #3 Replaced leak on maintenance clean hypo line Checked and replaced indicator bulbs on mcc panels Repaired air leak on train 3 Changed out valve actuator on train 1</p> <p>Distribution: Service repair at 339 Green St Removed hydrant and replaced drain ring at 288 Bricker St Shut off water service at 1246 Goderich St for plumber to fix internal problem Repaired water service at WPCP Repaired service at 68 Grey St N Hydrant flow testing on Mary, Rose, Bruce and Waterloo St Turned water at for Saugeen St. Water service repairs at Wellington/Louis and Palmerston St</p>
<p>April</p>	<p>LLPS:</p> <p>WTP: Backwash pump #1 bearing replacement Cleaned out PAC injection line Repairs on train 3 Expansion of trains 1 and 3 Third party calibrations</p> <p>Distribution: Locate curbstop and valve boxes for repair at 320 Perkins Ave Water turn on at Stevens St Water turn on at 12 Collard Way Water turn on at 82 Second St</p>
<p>May</p>	<p>LLPS:</p> <p>WTP: HACH on site for analyzer calibrations</p>

	<p>Repaired water leak on Train 2 laser turbidimeter drain line Flowmetrix on site for flow meter calibrations Changed o-rings for flow switch on HLP23 Distribution: Water turn ons</p>
June	<p>LLPS: WTP: Train 2 cassette expansion Repaired membrane filter modules Installed new modules in Train 4 Repaired valve adapter from Strainer A Repaired leak on hypo line to contact chamber Distribution: Repaired service leak at 232 Summerhill Rd Replaced service line at 538 Augusta St and 98 Saugeen St Water turn on at 308 Mill St and 169 Leeder Ln</p>
July	<p>LLPS: WTP: Replaced flow control valve on zone 2 high lift pump Replaced asco valve on high lift pump flow control valve Replaced Zenon PLC batteries Installed new belt on east cooling unit Distribution: Service repair on 1861 County Rd 33 Service repair at 371 Market St Valve replacement at 381 Huron St</p>
August	<p>LLPS: Watech on site for low lift inspections Watech on site for intake inspections WTP: Changed belt on west side dehumidifier Replaced down pipe and top tray for Train 3 Repair water leak at Zone 1 analyzer Replaced drive belt for mixer on clarifier Cummins Canada on site for diesel service and diagnostics Distribution: Tradesafe on site to check hoist systems WSP on site at Port Elgin Reservoir to reprogram Cisco switch Water turn on at 214 High St Changed out breaker at reservoir building Water turn off at 214 High St Replaced curbstop at 455 Bruce St Watech on site for water tower, reservoir Water turn off at 53 Huron St S</p>
September	<p>LLPS: Cummins Canada on site for generator inspection at lowlift WTP: Cummins Canada on site for generator maintenance Watech on site for clearwell inspection Repaired leak on maintenance clean pump Distribution: Service leak repair at 710 Catherine St Water turn off at 360 High St Changed out reservoir fill valve</p>
October	<p>LLPS: WTP: Distribution: Water turn off at 577 Hillcrest St, 560 Izzard St, 304 Mill St Service repair on Catherine St Hydrant flow testing</p>
November	<p>LLPS: WTP:</p>

	<p>Distribution: Water turn off at 169 Leeder Ln, 82 Second St, 169 MacAuly St, 190 Lake St Repair service leak and replace curbstop on Laird Ln Water service repair at 409 Mill St</p>
December	<p>LLPS: WTP: Replaced valve on filter trains #1 and #2 Distribution: Repair service leak at 457 Beiner Dr and at Coldwell Banker Repaired watermain break on Hemlock S</p>

Refer to Appendix A and Section 2.2 for details regarding the major and unscheduled maintenance performed during the reporting period.

2.2 Call-Ins

2021	# of Call-Ins	Due to
January	12	Phone Failure (3) Strainer Fault at LLPS (2) Distribution Low Chlorine Alarm (2) Zenon General Alarm (1) Zone 2 High Lift Pump Fault (3) High Turbidity Downstream of Strainer (1)
February	8	Zenon General Alarm (1) Water Shut Off (1) High Lift Pump Failure (1) High Turbidity Downstream of Strainer (3) Zone 2 Low Chlorine Residual Alarm (1) Zone 1 High Chlorine Residual Alarm (1)
March	13	Train 4 Failure Alarm (1) Phone Line Failure Alarm (1) LLPS Low Chlorine Alarm (1) Emergency Water Shut Off (1) LLPS High Chlorine Alarm (2) Turner St Pump Station Pump Failure Alarm (1) LLPS High Turbidity Alarm (5) Zone 2 Highlift Pump Failure Alarm (1)
April	17	Phone Line Alarm (1) Broken water meter (3) Raw Water High Turbidity Alarm (5) Service repair (1) Water leak (1) Coagulant Pump Fault Alarm (1) Zone 2 Low Chlorine Alarm (2) Zone 1 Low Chlorine Alarm (2) Distribution Low Chlorine Alarm at LLPS (1)
May	12	High Lift Pump Failure Alarm (1) Train 3 High Turbidity Alarm (1) Train 2 High Turbidity Alarm (2) Zone 2 Low Chlorine Alarm (2) Broken water meter (1) Low Lift Communication Failure (1) Phone Line Alarm (1) Water shut off (1) Low Reservoir Level Alarm (1) Water turn on (1)
June	14	Service Leak (2) Zone 2 High Lift Pump Fault Phone Fail Alarm (2) Zenon General Alarm Reservoir Generator Failure Reservoir Pump Failure (2) Zone 1 Low Chlorine Alarm

		Zone 2 Low Chlorine Alarm High Downstream Turbidity Alarm (2) Train 1 Failure Water turn off Water turn on
July	16	Zone 2 High Lift Pump Failure (5) Emergency water shut off Zone 2 Low Chlorine Alarms Service Leak Zone 2 High Chlorine Alarm Water turn on at 234 Mill St Zone 1 Low Chlorine Alarm Zone 1 High Chlorine Alarm (2) Reservoir pump 3 failure
August	14	Raw water high chlorine alarm Zenon general alarm (2) Reservoir pump #3 fault Zone 2 low chlorine alarm (3) Zone 2 high chlorine alarm (2) Reservoir low chlorine alarm Hypo tank #2 low level alarm Zone 1 high chlorine alarm Phone fail alarm AIT14 Distribution high chlorine alarm
September	6	High Downstream Turbidity Alarm Zenon General Alarm Reservoir low chlorine alarm Reservoir communication fault High Raw water turbidity alarm (2)
October	7	Zenon General Alarm (4) Reservoir communication fault Zone 2 High Chlorine Alarm Hypo tank low alarm
November	5	Zenon General Alarm (3) Power outage (2)
December	6	Zenon General Alarm High Discharge Pressure at Lowlift High Raw water turbidity alarm (3) Watermain Break

Refer to Appendix B for a detailed list of call-ins.

2.3 Community Complaints

January

- 5** Called to 817 Waterloo St for service leak. Shut off curbstop. Leak stopped. Informed homeowner that leak is likely on homeowner's side and to call contractor to fix their side of service.
- 8** Called for meter leaking at 40 Jay St. Called homeowner and she let me know meter was located in heated box behind house and was gushing water. Changed leaking meter and advised homeowner to replace heat wrap.
- 12** Call to 460 Parkview St for water leak from service line. Public Works to dig up for repair. Leak approximately 10 ft towards main from curb stop. Curb stop valve box installed.
- 14** Water turn off 385 Morpeth. Neighbour noticed water pooling around cottage. Homeowner notified of leak.
- 21** Called to 86 Third St for water leak. Determined it was leaking from inside cottage. Located and turned off curbstop and contacted owner.
- 30** Called for no water at 110 Laird Lane. Contacted resident to investigate. Neighbour still had water and could not see any water coming up from the ground around the house or pooling anywhere. Was told it was very cold around the meter and not much insulation in the crawl space. A repair man was coming by to put a space heater in the crawl space later in the morning.

- 31** Checked 231 MacAuley St for now water. Curbstops were ok. No water at meter. Homeowner is contacting plumber.

February

- 1** Received an e-mail about a possible frozen water issue at 319 Green St. The homeowner has had recurring problems with frozen water. It was determined that this was an issue on the homeowner's side and she was told she would need to contact a plumber to thaw lines where pipes are exposed and would need to better insulate the piping.
- 2** Called about a hydrant in front of 288 Bricker St spraying water out of one of the ports. Upon arrival attempted to close hydrant with hydrant wrench. When fully shut it was still leaking and could hear faint water running. It appears to not be seated properly. Located and isolated hydrant with isolation valve. Hydrant is out of service.
- 3** Water turn on at 339 Green Street in Port Elgin. Arrived on site and met homeowner and located curb stop. Opened valve and water ran up the key. Closed valve and water slowed but continued to flow. Could hear water with it closed. Checked for chlorine residual on leak water. Water in vial went dark pink. Left valve off and notified operations team. Homeowner living off site at the moment.
- 4** No water at 232 Perkins. Located and operated curbstop. Owner was going to check lines under cottage.
- 7** No water at 110 Laird Lane. It is believed to be frozen on private side.
- 10** Water pressure complaint at 887 Maplewood Dr. It was checked out and pressure was fine and there were no water issues while operators were there.
Water turn off at The Bluewater Inn in Southampton. Water leak on homeowner's side.
- 12** Called for water in basement of house 140 Miramichi Bay Rd. Located curbstop and turned off water.
- 20** Contacted to shut water off at Duffy's Restaurant on High Street. Located curb stop, and closed it. Resident of Duffy's came out and said he could close the valve off at water meter inside. He shut off his valve and the curb stop was re-opened. Could not hear any flow on the key. Resident confirmed no more flow from leak inside the building. Gave resident Southampton on call number and asked him to contact us if water shut off at the curb stop becomes necessary.
- 24** Called to 446 Provincial St for no water. Confirmed water at meter believed to be frozen at cement wall. Homeowner is going to thaw out.
- 28** Went to 104 Irving Dr. Apartments for water complaint. Was a concern about cloudy water. It was determined to be a bit of air. Took chlorine residual, 1.21mg/L, and bacteriological sample.

March

No community complaints were reported to OCWA staff.

April

- 14** Complaint at Westlinks for cloudy water, flushed hydrant, chlorine residual 1.05 mg/L, followed up with caller and all was good
- 29** Water pooling on lawn at 65 Peel St, shut off curbstop at property line and advised home owner to install new service

May

- 11** Low pressure complaint at 14 Miramichi Bay Rd, issue on homeowner's side
- 12** Water complaint from 364 Clarendon, checked curbstop and it had a bit of sand in the box but no issues otherwise, told homeowner to flush lines
- 13** Water service request to turn off water due to leak in home
- 19** Resident at 418 Eckford Ave reported no water at cottage when they previously did have it, found valve ahead of water meter turned off, restored water service
- 25** Water leak at 482 Provincial, determined to be on homeowner's side

June

No community complaints were reported to OCWA staff.

July

- 13** Low pressure complaint at 47 Eidts Circle, pressure after meter was 95 psi. Pressure at kitchen taps drops after running. Couldn't hear any flows or leaks at curbstop. Homeowner to call plumber to look into issue.
- 19** Coloured water complaint at 5612 Hwy 21. No leaks at curbstop, chlorine residual at outside tap 1.0 mg/L. Suspect water heaters as there were two tied into the one being used.
- 28** Low pressure complaint at 261 Cole Blvd., checked curbstop and meter and no restrictions, suggested to contact plumber since pressure was ok prior to work being completed on plumbing.

August

- 17** No water complaint at 13 Hemlock. Faust Construction on site installing new service.
- 19** Water pressure complaint at 733 Goderich St, checked water pressure, valve not fully open, adjusted valve to be fully open.

September

- 27** Water quality concern at 312 Clarendon St. Homeowner noticed black rings forming around toilets and sinks in house. No visible debris or particulate after investigation. Chlorine residual of 0.78 mg/L. Assured resident of good water quality.
- 28** Complaint of sand in toilet at 949 Highland St. Found sand only in toilet bowl and not in tank, meter or strainer on tap. Curbstop checked out fine. Chlorine residual of 1.36 mg/L.

October

- 12** Town called to check noise at 83 First St, determined leak on homeowner's side. A plumber was contacted.

November

No community complaints were reported to OCWA staff.

December

No community complaints were reported to OCWA staff.

3. Health & Safety

3.1 Incidents

- Number of Health & Safety Incidents Reported = 0

2022	Health & Safety Incidents	
	# Reported	Details
January	0	n/a
February	0	n/a
March	0	n/a
April	0	n/a
May	0	n/a
June	0	n/a
July	0	n/a
August	0	n/a
September	0	n/a
October	0	n/a
November	0	n/a
December	0	n/a

3.2 Training

The following safety topics/trainings were provided to staff:

2022	Topics
January	Winter Safety
February	Equipment and Tool Safety
March	Responsibilities under OHSA
April	COVID Reminders
May	Health and Safety Week
June	Staying Safe Outdoors
July	Hand Safety; PPE Requirements
August	Vehicle Safety Requirements
September	Back to School Reminders
October	Preventing Slips, Trips and Falls
November	Equipment Handling
December	Ergonomics and Musculoskeletal Disorder Prevention

Appendix A: Detailed Major & Unscheduled Maintenance

January

- 5 Train 3 and 4 butterfly valve replacement.
- 13 Repairs on train 1 drain tank.
Switched out both SCBA bottles.
- 14 Repairs on train 2 cassette A and B.
- 17 Installed new locks on new gates at Southampton water tower.
- 18 Wrapped pipes for trains 3 and 4 with insulation from previous repairs.
- 19 Isolated and removed hydrant at 321 Stickle St. Replaced drain ring and seat and installed anode on lower rod and hydrant boot. Then reinstalled, backfilled and flushed hydrant.
- 25 Changed out raw water sample pump at LLPS and adjusted pressure switch.
- 26 Replaced power board in sc100 for trains 3 and 4.

February

- 1 Replaced hydrant markers at 238 Anglesia in Southampton and 198 Hwy 21
- 3 Repair of Watermain break at Grenville and High St. Directional flushing of main once repaired and took residual 1.36mg/L.
- 8 Replaced two sections of airline in the WTP basement
- 14 Investigated possible water leak at Madwayosh St and Gosford St, determined it was ground water
- 15 Lynjo on site for electric testing of motor for HLP23
- 16 Repairs to WTP insulation on pipes
- 24 Replaced 3/8" copper line on control valve on pump #3 at Reservoir
- 28 Changed out fan motor for heater at LLPS
Replaced relay in soft start HLP23

March

- 1 Service repair at 339 Green St
Lynjo on site to replace bearings in P97A recirc pump
Removed hydrant and replaced drain ring at 288 Bricker St
- 7 Repaired hypo leak on pump #3
- 14 Shut off water service at 1246 Goderich St for plumber to fix internal problem
- 15 Repaired water service at WPCP
- 16 Replaced leak on maintenance clean hypo line
- 17 Repaired service at 68 Grey St N
- 18 Checked and replaced indicator bulbs on mcc panels
Repaired air leak on train 3

- 24 Hydrant flow testing on Mary, Rose, Bruce and Waterloo St
- 25 Changed out valve actuator on train 1
- 30 Turned water at for Saugeen St.
- 31 Water service repairs at Wellington/Louis and Palmerston St

April

- 4 Locate curbstop and valve boxes for repair at 320 Perkins Ave
- 6 Water turn on at Stevens St
Backwash pump #1 bearing replacement
- 12 Cleaned out PAC injection line
- 18 Water turn on at 12 Collard Way
- 25 Repairs on train 3
- 26 Expansion of trains 1 and 3
- 27 Third party calibrations
Water turn on at 82 Second St

May

- 2 Water turn ons at 190 Lake St and 46 Beach Rd
HACH on site for analyzer calibrations
- 5 HACH on site for analyzer calibrations
- 6 Repaired water leak on Train 2 laser turbidimeter drain line
- 9 Water turn on at 560 Izzard St
Flowmetrix on site for flow meter calibrations
- 10 Water turn on at 565 Hillcrest and Helliwell soccer field
- 31 Changed o-rings for flow switch on HLP23

June

- 5 Repaired service leak at 232 Summerhill Rd
- 6 Train 2 cassette expansion
- 7 Repaired membrane filter modules
Installed new modules in Train 4
- 10 Replaced service line at 538 Augusta St
- 13 Replaced service line at 98 Saugeen St
- 14 Repaired valve adapter from Strainer A
- 21 Repaired leak on hypo line to contact chamber
- 25 Water turn on at 308 Mill St
- 30 Water turn on at 169 Leeder Ln

July

- 6 Replaced asco valve on high lift pump flow control valve
- 7 Replaced Zenon PLC batteries
- 15 Replaced flow control valve on zone 2 high lift pump
- 21 Service repair on 1861 County Rd 33
- 25 Installed new belt on east cooling unit
- 28 Service repair at 371 Market St
Valve replacement at 381 Huron St

August

- 3 Changed belt on west side dehumidifier
- 8 Replaced down pipe and top tray for Train 3
- 11 Tradesafe on site to check hoist systems
- 12 WSP on site at Port Elgin Reservoir to reprogram Cisco switch
Repair water leak at Zone 1 analyzer

- Water turn on at 214 High St
- 15** Changed out breaker at reservoir building
- 19** Replaced drive belt for mixer on clarifier
- 22** Water turn off at 214 High St
- 24** Replaced curbstop at 455 Bruce St
- Waterch on site for water tower, reservoir and low lift inspections
- 25** Waterch on site for intake inspections
- 31** Cummins Canada on site for diesel service and diagnostics
- Water turn off at 53 Huron St S

September

- 1** Cummins Canada on site for generator maintenance
- 8** Waterch on site for clearwell inspection
- Cummins Canada on site for generator inspection at lowlift
- 12** Service leak repair at 710 Catherine St
- Repaired leak on maintenance clean pump
- 22** Water turn off at 360 High St
- 30** Changed out reservoir fill valve

October

- 1** Water turn off at 577 Hillcrest St
- 18** Service repair on Catherine St
- 19** Water turn off at 560 Izzard St
- 24** Water turn off at 304 Mill St
- 26** Hydrant flow testing

November

- 15** Water turn off at 169 Leeder Ln and 82 Second St
- Repair service leak and replace curbstop on Laird Ln
- 16** Water turn off at 169 MacAuly St
- 23** Water turn off at 190 Lake St
- Water service repair at 409 Mill St

December

- 05** Repair service leak at 457 Beiner Dr
- 06** Repair service at Coldwell Banker
- 15** Replaced valve on filter train #1
- 22** Replaced valve on filter train #2
- 27** Repaired watermain break on Hemlock St

Appendix B: List of Call-Ins

DATE	TIME	DESCRIPTION
January 1, 2022	04:15	Phone Failure
January 3, 2022	01:30	Distribution Low Chlorine Alarm
January 4, 2022	02:00	Distribution Low Chlorine Alarm
January 8, 2022	02:00	Strainer Fault at Low Lift Pump Station
January 10, 2022	00:00	Strainer Fault at Low Lift Pump Station
January 13, 2022	01:00	High Turbidity Downstream of Strainer
January 15, 2022	03:00	Zone 2 High Lift Pump Fault

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January 19, 2022	00:45	Zone 2 High Lift Pump Fault
January 24, 2022	04:15	Phone Failure
January 24, 2022	01:00	Zone 2 High Lift Pump Fault
January 25, 2022	21:15	Phone Failure
January 26, 2022	03:30	Zenon General Alarm
February 1, 2022	21:15	Zenon General Alarm
February 2, 2022	19:00	High Turbidity Downstream of Strainer Alarm
February 12, 2022	13:00	Water Shut Off
February 12, 2022	17:45	High Lift Pump Failure
February 18, 2022	01:15	High Turbidity Downstream of Strainer Alarm
February 19, 2022	01:15	High Turbidity Downstream of Strainer Alarm
February 27, 2022	16:45	Zone 2 Low Chlorine Residual Alarm
February 28, 2022	19:30	Zone 1 High Chlorine Residual Alarm
March 5, 2022	13:30	Train 4 Failure Alarm
March 10, 2022	19:00	Phone Line Failure Alarm
March 10, 2022	02:45	LLPS Low Chlorine Alarm
March 14, 2022	17:30	Emergency Water Shut Off
March 19, 2022	12:45	LLPS High Chlorine Alarm
March 20, 2022	07:00	Turner St Pump Station Pump Failure Alarm
March 20, 2022	13:15	LLPS High Chlorine Alarm
March 20, 2022	21:45	LLPS High Turbidity Alarm
March 26, 2022	19:30	LLPS High Turbidity Alarm
March 27, 2022	00:00	LLPS High Turbidity Alarm
March 27, 2022	04:45	LLPS High Turbidity Alarm
March 29, 2022	--	LLPS High Turbidity Alarm
March 31, 2022	20:45	Zone 2 Highlift Pump Failure Alarm
April 3, 2022	07:10	Phone Line Alarm
April 9, 2022	13:50	Broken expansion plate on water meter at 241 Lambert Lane
April 10, 2022	14:29	Broken water meter at 7 George St
April 16, 2022	15:30	Water meter replacement at 232 Mill St
April 18, 2022	02:25	Raw Water High Turbidity Alarm
April 18, 2022	04:14	Zone 1 Low Chlorine Alarm
April 22, 2022	22:00	Raw Water High Turbidity Alarm
April 23, 2022	04:00	Raw Water High Turbidity Alarm
April 23, 2022	16:41	Raw Water High Turbidity Alarm
April 24, 2022	15:14	Service repair at 842 Geddes St
April 24, 2022	15:17	Water leak at 171 Saugeen Beach Rd, shut off water
April 27, 2022	00:20	Coagulant Pump Fault Alarm
April 28, 2022	00:50	Raw Water High Turbidity Alarm

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April 28, 2022	23:10	Zone 2 Low Chlorine Alarm
April 29, 2022	02:22	Zone 1 & 2 Low Chlorine Alarm
April 29, 2022	05:30	Distribution Low Chlorine Alarm at LLPS
May 2, 2022	00:19	High Lift Pump Failure Alarm
May 2, 2022	21:08	Train 2 & 3 High Turbidity Alarm
May 2, 2022	22:53	Train 2 High Turbidity Alarm
May 5, 2022	02:53	Zone 2 Low Chlorine Alarm
May 5, 2022	06:20	Zone 2 Low Chlorine Alarm
May 13, 2022	19:01	Broken water meter at 687 King St
May 14, 2022	06:45	Low Lift Communication Failure
May 20, 2022	18:20	Phone Line Alarm
May 22, 2022	14:51	Water shut off at 154 Lake St
May 23, 2022	20:04	Low Reservoir Level Alarm
May 28, 2022	12:48	Water turn on at 211 Huron St S
June 4, 2022	15:30	Leak at 232 Summerhill Rd
June 5, 2022	13:27	Zone 2 High Lift Pump Fault
June 6, 2022	20:00	Phone Fail Alarm
June 9, 2022	04:57	Phone Fail Alarm
June 10, 2022	05:45	Leak at Saugeen/Huron St
June 12, 2022	03:14	Zenon General Alarm
June 13, 2022	05:23	Reservoir Generator and Pump Failure Alarms
June 17, 2022	06:10	Zone 1 & 2 Low Chlorine Alarms
June 18, 2022	02:30	High Downstream Turbidity Alarm
June 18, 2022	15:40	High Downstream Turbidity Alarm
June 19, 2022	16:25	Train 1 Failure
June 25, 2022	10:03	Emergency water turn off at 160 MacDonald Ln
June 25, 2022	10:08	Reservoir Pump Fault
June 25, 2022	14:25	Water turn on at 160 MacDonald Ln
July 5, 2022	16:35	Zone 2 High Lift Pump Failure
July 9, 2022	19:09	Emergency water shut off at 310 Albert St.
July 11, 2022	21:35	Zone 2 High Lift Pump Failure
July 12, 2022	03:31	Zone 2 Low Chlorine Alarms
July 13, 2022	12:30	Service Leak
July 14, 2022	06:25	Zone 2 High Lift Pump Failure
July 14, 2022	21:56	Zone 2 High Lift Pump Failure
July 15, 2022	12:38	Zone 2 High Lift Pump Failure
July 17, 2022	21:15	Zone 1 & 2 High Chlorine Alarms
July 19, 2022	19:30	Water turn on at 234 Mill St
July 19, 2022	19:40	Zone 1 Low Chlorine Alarm

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July 20, 2022	17:30	Power outage
July 20, 2022	20:12	Power outage at reservoir
July 27, 2022	23:09	Power outage
July 30, 2022	08:07	Zone 1 High Chlorine Alarm
July 31, 2022	22:06	Reservoir pump 3 failure
August 1, 2022	02:32	Raw water high chlorine alarm
August 1, 2022	21:18	Zenon general alarm
August 6, 2022	14:50	Zenon general alarm
August 7, 2022	11:00	Reservoir pump #3 fault
August 10, 2022	20:05	Zone 2 low chlorine alarm
August 12, 2022	21:08	Zone 2 high chlorine alarm
August 12, 2022	22:29	Reservoir low chlorine alarm
August 13, 2022	12:35	Hypo tank #2 low level alarm
August 19, 2022	03:56	Zone 2 low chlorine alarm
August 24, 2022	22:26	Zone 2 low chlorine alarm
August 25, 2022	20:15	Zone 2 high chlorine alarm
August 26, 2022	00:18	Zone 1 high chlorine alarm
August 26, 2022	04:45	Phone fail alarm
August 26, 2022	05:17	AIT14 Distribution high chlorine alarm
September 1, 2022	04:42	High Downstream Turbidity Alarm
September 3, 2022	15:22	Zenon General Alarm
September 21, 2022	18:47	Reservoir low chlorine alarm
September 23, 2022	02:12	Reservoir communication fault
September 24, 2022	00:06	High Raw water turbidity alarm
September 27, 2022	02:42	High Raw water turbidity alarm
October 1, 2022	18:21	Zenon General Alarm
October 2, 2022	20:14	Zenon General Alarm
October 10, 2022	11:49	Reservoir communication fault
October 16, 2022	01:00	Zone 2 High Chlorine Alarm
October 16, 2022	21:52	Hypo tank low alarm
October 22, 2022	15:35	Zenon General Alarm
October 23, 2022	00:00	Zenon General Alarm
November 5, 2022	14:40	Zenon General Alarm
November 5, 2022	21:30	Power outage
November 22, 2022	01:34	Zenon General Alarm
November 22, 2022	03:07	Zenon General Alarm
November 27, 2022	11:30	Power outage
December 11, 2022	12:48	Zenon General Alarm
December 11, 2022	12:58	High Discharge Pressure at Lowlift

Town of Saugeen Shores
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December 25, 2022	02:58	High Raw water turbidity alarm
December 27, 2022	01:04	High Raw water turbidity alarm
December 27, 2022	04:45	Watermain break
December 28, 2022	18:21	High Raw water turbidity alarm