

March 28, 2024

Ministry of the Environment, Conservation and Parks  
3<sup>rd</sup> floor, 101 17<sup>th</sup> Street East  
Owen Sound, Ontario  
N4K 0A5

**RE: 2023 Port Elgin Water Pollution Control Plant Annual Sewage Performance Report (ECA #0556-AKQN3Q) and Municipal Sewage Collection System Performance Report (CLI-ECA 093-W601) – Town of Saugeen Shores**

Please see attached for the 2023 Annual Sewage and Collection System Performance Reports prepared by the Ontario Clean Water Agency on behalf of the Town of Saugeen Shores for the:

- Port Elgin Water Pollution Control Plant
- Town of Saugeen Shores Municipal Sewage Collection System

This report was completed in accordance with the requirements set out in ECA #0556-AKQN3Q *Condition 11(4)*, issued May 30, 2017 and Municipal Sewage Collection System CLI-ECA #093-W601 *Schedule E (4.6)*, issued January 10, 2023. Your receipt of this report by or before March 31, satisfies the regulatory requirements:

- ECA #0556-AKQN3Q that “The owner shall prepare performance reports on a calendar year basis and submit to the Water Supervisor by March 31 of the calendar year following the period reported upon” and;
- CLI-ECA #093-W601 that “The Owner shall prepare an annual performance report for the Authorized System that is submitted to the Director on or before March 31<sup>st</sup> of each year and covers the period from January 1<sup>st</sup> to December 31<sup>st</sup> of the preceding calendar year.

In addition, CLI-ECA #093-W601 requires that report shall be made available, on request and without charge, to members of the public who are served by the Authorized System; and made available, by June 1 of the same reporting year, to members of the public without charge by publishing the report on the Internet, if the Owner maintains a website on the Internet. We kindly ask that notification is provided once the report is posted on the Town’s Municipal website.

Lastly, the Ministry has indicated that the Municipal Collection System ECA Annual Reports can either be prepared as a separate report or as a subsection of the Annual Sewage Report for the Wastewater Treatment Facility, attached you will find one report that satisfies the reporting requirements of both Environmental Compliance Approvals.

Should you require further clarification on the information found within the Annual Sewage Performance Report, please feel free to contact me.

Sincerely,



Dan MacLeod  
Senior Operations Manager  
OCWA, Georgian Highlands Region



**ONTARIO CLEAN WATER AGENCY**  
**AGENCE ONTARIENNE DES EAUX**

# **PORT ELGIN SEWAGE TREATMENT PLANT**

## **ANNUAL PERFORMANCE REPORT**

**For the period of  
JANUARY 1, 2023 TO DECEMBER 31, 2023**

Prepared by the Ontario Clean Water Agency  
For The Town of Saugeen Shores

## 1. System Description

The Port Elgin Sewage Treatment Plant is designed for the treatment of municipal sanitary sewage and disposal of final effluent. The works is owned by the Corporation of the Town of Saugeen Shores and operated on behalf of the Owner by the Ontario Clean Water Agency (OCWA). Port Elgin WWTP began operating in its current configuration August 17, 2017. The plant is an extended aeration, activated sludge operation, with two secondary clarifiers, two aeration tanks and phosphorus removal (by continuous alum addition). Final effluent from the plant is disinfected by ultraviolet irradiation and flows through the constructed outfall (commissioned August 17, 2017) to Mill Creek.

Sludge is digested aerobically in a primary and secondary digester and stored in two aerated holding tanks. Digested sludge is land applied as farm fertilizer in accordance with the Guidelines. The plant has a six month storage that is used when conditions are not favorable for land application.

The Inlet Works includes continuously cleaned mechanical filter screen, grit removal system and odour control system, while the Septage Receiving Station includes screening, septage pumping station and two (2) 24 m<sup>3</sup> below grade septage holding tanks.

An overview of Port Elgin Sewage Treatment Plant can be found in Table 1.

**Table 1.** Port Elgin Sewage Treatment Plant Overview

<b>Facility Name</b>	Port Elgin Sewage Treatment Plant
<b>Facility Type</b>	Modified Extended Aeration
<b>Plant Classification</b>	II WWT
<b>Works Number</b>	120001470
<b>Design Capacity</b>	6,455 m <sup>3</sup> /day
<b>Number of Households</b>	~2,896 + ~314 Commercial
<b>Receiving Water</b>	Mill Creek
<b>Certificate of Approval</b>	0556-AKQN3Q (Sewage Treatment Plant)
	0704-56VS78 (Air)

## 2. Monitoring Data

As per Section 11, 4(a), (b) and (g) of Environmental Compliance Approval (ECA) 0556-AKQN2Q, *a summary and interpretation of all Influent and Imported Sewage monitoring data, including sewage characteristics, flow rates and a comparison to the values used in the design of the Works; a summary and interpretation of all Final Effluent monitoring data and a comparison to the compliance limits condition, including an overview of the success and adequacy of the Works; and a description of efforts made and results achieved in meeting the design objectives condition; is required.*

### 2.1 Sampling Frequency

Both raw sewage and effluent are sampled on a regular basis. The sampling types and frequencies are summarized in Table 2 and Table 3. The sampling frequencies either meet or exceed the requirements set out in ECA 0556-AKQN3Q.

**Table 2.** Raw Sewage Monitoring - Sampling Frequencies as required by ECA 0556-AKQN3Q for Port Elgin Sewage Treatment Plant

Parameters	Sample Type	Minimum Frequency
BOD <sub>5</sub> <sup>2a</sup>	Grab	Monthly
Total Suspended Solids <sup>2a</sup>	Grab	Monthly
Total Phosphorus <sup>2a</sup>	Grab	Monthly
Total Kjeldahl Nitrogen <sup>2a</sup>	Grab	Monthly

<sup>2a</sup>Refer to Appendix A for monthly sample results.

**Table 3.** Effluent Monitoring - Sampling Frequencies as required for Port Elgin Sewage Treatment Plant

Parameters	Sample Type	Minimum Frequency
CBOD <sub>5</sub> <sup>3a</sup>	Composite	Weekly
Total Suspended Solids <sup>3a</sup>	Composite	Weekly
Total Phosphorus <sup>3a</sup>	Composite	Weekly
Total Ammonia Nitrogen <sup>3a</sup>	Composite	Weekly
Nitrite and Nitrate <sup>3a</sup>	Composite	Weekly
Alkalinity	Composite	Weekly
pH	Composite/Grab	Weekly (Grab)
E-coli <sup>3a</sup>	Grab	Weekly
Temperature	Grab	Weekly

<sup>3a</sup>Refer to Appendix A for monthly sample results.

## 2.2 Effluent Objectives and Effluent Limits

The effluent objectives for the Port Elgin Sewage Treatment Plant are:

**Table 4.** Effluent Objectives as required for Port Elgin Sewage Treatment Plant

Parameter	Average Monthly Concentration (mg/L)
CBOD <sub>5</sub>	15
Suspended Solids	15
Total Phosphorus	0.8
E-coli	100 per 100 mL geometric mean density
pH	Between 6.5 – 8.5 inclusive, at all times

The effluent limits that are to be met for the Port Elgin Sewage Treatment Plant are found in Table 5. Any exceedance with the limits found in Table 5 constitutes a non-compliance.

**Table 5.** Effluent Limits as required by ECA 0556-AKQN3Q for Port Elgin Sewage Treatment Plant

Parameter	Average Monthly Concentration (mg/L)	Average Monthly Loading (kg/day)
CBOD <sub>5</sub>	25	161
Suspended Solids	25	161
Total Phosphorus	1	6.5
E-coli	200 per 100 mL geometric mean density	
pH	Between 6.0 and 9.5, inclusive, at all times	

### 2.3 Comparison of Data to Effluent Objectives and Effluent Limits

Analytical and monitoring data for the Port Elgin sewage treatment is stored in OCWAs data management system (PDM). Annual and monthly averages for flows, CBOD, Suspended Solids, Total Phosphorus as P, Nitrogen-series and E.coli can be found in Appendix A. A comparison of analytical data from effluent samples to the effluent objectives and effluent limits show the following removal efficiencies:

**Table 6.** 2023 Effluent Annual Average Concentrations and Removal Efficiencies

Parameter	Annual Average Concentration (mg/L)	Annual Average Removal Efficiency (%)
Suspended Solids	7.08	94.1%
Total Phosphorus as P	0.50	77.4%

The Port Elgin Sewage Treatment Plant effectively provided effluent that was well within the effluent limits and effluent objectives set out in the ECA. Refer to Table 7 for a monthly summary of analytical samples with the effluent limits and objectives.

**Table 7.** Comparison of Effluent Limits and Objectives to Sampled Effluent for Port Elgin Sewage Treatment Plant (2023)

	CBOD <sub>5</sub>					Total Suspended Solids					Total Phosphorus					E.Coli			pH			
	Average Monthly Concentration (mg/L)	Within Objectives (15 mg/L)	Within Limits (25 mg/L)	Average Monthly Loading (kg/d)	Within Limit (161 kg/d)	Monthly Average Concentration (mg/L)	Within Objectives (15 mg/L)	Within Limits (25 mg/L)	Average Monthly Loading (kg/d)	Within Limit (161kg/d)	Average Monthly Concentration (mg/L)	Within Objectives (0.8 mg/L)	Within Limits (1 mg/L)	Average Monthly Loading (kg/d)	Within Limit (6.5 kg/d)	Monthly Geometric Mean Density (mg/L)	Within Objectives (100 cfu/ 100 mL)	Within Limits (200 cfu/ 100 mL)	Monthly Minimum	Monthly Maximum	Within Objectives (6.5 – 8.5 inclusive)	Within Limits (6.0 – 9.5 inclusive)
January	2.80	Yes	Yes	11.46	Yes	6.60	Yes	Yes	27.02	Yes	0.50	Yes	Yes	2.03	Yes	3.10	Yes	Yes	7.22	7.60	Yes	Yes
February	2.50	Yes	Yes	10.42	Yes	4.00	Yes	Yes	16.67	Yes	0.56	Yes	Yes	2.32	Yes	2.38	Yes	Yes	7.56	7.84	Yes	Yes
March	2.25	Yes	Yes	9.46	Yes	5.50	Yes	Yes	23.13	Yes	0.38	Yes	Yes	1.61	Yes	3.64	Yes	Yes	7.33	7.83	Yes	Yes
April	2.00	Yes	Yes	9.52	Yes	7.50	Yes	Yes	35.70	Yes	0.49	Yes	Yes	2.33	Yes	4.23	Yes	Yes	7.56	7.73	Yes	Yes
May	3.00	Yes	Yes	13.42	Yes	9.80	Yes	Yes	43.82	Yes	0.59	Yes	Yes	2.62	Yes	3.03	Yes	Yes	7.61	7.90	Yes	Yes
June	3.00	Yes	Yes	12.26	Yes	8.25	Yes	Yes	33.72	Yes	0.54	Yes	Yes	2.23	Yes	4.52	Yes	Yes	7.55	7.79	Yes	Yes
July	2.50	Yes	Yes	10.41	Yes	10.50	Yes	Yes	43.71	Yes	0.66	Yes	Yes	2.74	Yes	2.38	Yes	Yes	7.22	7.68	Yes	Yes
August	2.20	Yes	Yes	9.14	Yes	7.80	Yes	Yes	32.41	Yes	0.61	Yes	Yes	2.53	Yes	2.30	Yes	Yes	7.39	7.87	Yes	Yes
September	2.00	Yes	Yes	7.99	Yes	2.75	Yes	Yes	10.99	Yes	0.44	Yes	Yes	1.75	Yes	2.38	Yes	Yes	7.07	7.21	Yes	Yes
October	2.40	Yes	Yes	9.86	Yes	8.40	Yes	Yes	34.50	Yes	0.54	Yes	Yes	2.22	Yes	<2.00	Yes	Yes	7.27	7.46	Yes	Yes
November	2.25	Yes	Yes	8.92	Yes	6.00	Yes	Yes	23.78	Yes	0.40	Yes	Yes	1.59	Yes	3.56	Yes	Yes	7.18	7.55	Yes	Yes
December	3.00	Yes	Yes	12.28	Yes	6.75	Yes	Yes	27.62	Yes	0.24	Yes	Yes	0.98	Yes	2.38	Yes	Yes	7.21	7.45	Yes	Yes

## 2.4 Additional Monitoring Parameters

The following parameters do not have effluent limits or objectives but are monitored on a regular basis (see Section 3.1 for sampling frequency) as required by ECA 0556-AKQN3Q. Table 8, 9, and 10 summarizes the monitoring data for the reporting period.

**Table 8.** Raw Sewage Monitoring Parameters as required for Port Elgin Sewage Treatment Plant, 2023

Parameters	Average	Minimum	Maximum
BOD <sub>5</sub> <sup>8a</sup> (mg/L)	152.25	51.00	383.00
Total Suspended Solids <sup>8a</sup> (mg/L)	160.67	37.00	477.00
Total Phosphorus <sup>8a</sup> (mg/L)	3.02	1.07	6.10
Total Kjeldahl Nitrogen <sup>8a</sup> (mg/L)	13.00	25.68	43.90

<sup>8a</sup>Refer to Appendix A for monthly sample results.

The 2023 average results for BOD<sub>5</sub>, TP and TKN are lower while TSS was slightly higher than the previous year. The 2023 minimum results were all lower than the previous year. The 2023 maximum results for Bod<sub>5</sub>, TSS, and TP are higher and TKN slightly lower than the previous year.

**Table 9.** Effluent Monitoring Parameters as required for Port Elgin Sewage Treatment Plant, 2023

Parameters	Average	Minimum	Maximum
Total Kjeldahl Nitrogen (mg/L)	0.80	0.50	2.60
Ammonia Nitrogen <sup>9a</sup> (mg/L)	0.12	0.10	0.90
Nitrite and Nitrate <sup>9a</sup> (mg/L)	24.72	20.20	30.00
Alkalinity (mg/L as CaCO <sub>3</sub> )	67.44	38.00	107.00
Temperature (°C)	13.37	7.00	20.00

<sup>9a</sup>Refer to Appendix A for monthly sample results.

The 2023 averages for all parameters except temperature are lower than the previous year. The minimum results for TKN and TAN are the same, Nitrite and Nitrate, Alkalinity and pH are higher and temperature is lower than the previous year. The maximum results for all parameters except temperature are lower than the previous year. The average and maximum results for temperature are the same as the previous year.

**Table 10.** Influent flows and Septage Receiving, 2023

Pump Station	Average Daily Flow (m <sup>3</sup> /day)	Total Annual Flow (m <sup>3</sup> )	Percentage of Rated Capacity (6,455 m <sup>3</sup> /d)
Influent	2,805	1,023,767	43.5%
Septage Receiving Station	0.23	83	n/a

The 2023 influent total annual flow and average daily flow are slightly higher when compared to the previous year. The septage received in 2023 was lower when compared to the previous year.

### 3. Operating Challenges

As per Section 11,(4)(c) of Environmental Compliance Approval (ECA) 0556-AKQN3Q, *a description of any operating problems encountered and corrective actions taken* is required.

In 2023, the following operating problems were encountered:

Non-Compliance(s)	Duration	Required Actions & Corrective Actions
n/a	n/a	n/a

### 4. Major Maintenance Activities

As per Section 11, (4)(d) of Environmental Compliance Approval (ECA) 0556-AKQN3Q, *a summary of all maintenance carried out on any major structure, equipment, apparatus or mechanism forming part of the Works;* is required.

For 2023, major maintenance activities that occurred include:

- Sandy Acres Isolation valve replacement (collection system)
- 10<sup>th</sup> concession air relief valve replacement (3 of them on forcemain)
- 10<sup>th</sup> concession forcemain couplers replaced (3 of them)
- Chamber hatch/ lid installation
- Sludge tank air isolation valves replaced
- Grit dewatering auger replaced
- Float switches replaced
- New pump ordered for 10<sup>th</sup> concession

As per Section 11, (4)(k) of Environmental Compliance Approval (ECA) 0556-AKQN3Q, *a copy of all Notice of Modifications, submitted to the Water Supervisor as a result of Schedule B, Section 1, with a status report on the implementation of each modification,* is required.

There were no Notice of Modifications submitted during the reporting period.

As per Section 11, (4)(l) of Environmental Compliance Approval (ECA) 0556-AKQN2Q, *a report summarizing all modification completed as a result of Schedule B, Section 3,* is required.

See above for summary of modifications completed.

### 5. Effluent Quality Assurance and Control

As per Section 11,(4)(e) of Environmental Compliance Approval (ECA) 0556-AKQN3Q, *a summary of effluent quality assurance or control measures taken during the reporting period* is required.

All laboratory analyzed raw sewage and effluent samples are analyzed by SGS Canada Inc., which is an ISO 17025 accredited laboratory. In-house tests are conducted for monitoring purposes by licensed operators using standardized methods. The results from in-house tests are used to determine treatment efficiency and how effectively process control is maintained. Calibrations and preventative maintenance are performed on facility equipment and monitoring equipment, see Section 6 for more details. In addition to sample analysis, preventative maintenance is scheduled for equipment at the sewage treatment plant and pumping stations at regular frequency (frequency depends on the



equipment and type of maintenance). Preventative maintenance activities were scheduled within the work management system (WMS).

## **6. Calibration and Maintenance Procedures**

As per Section 11, (4)(f) of Environmental Compliance Approval (ECA) 0556-AKQN3Q, *an evaluation of the calibration and maintenance procedures conducted on all Influent, Imported Sewage and Final Effluent monitoring equipment; is required.*

All in-house monitoring equipment is calibrated/verified as per manufacturer's recommendations. Monitoring and metering equipment is also calibrated by a third party on an annual basis. Preventative maintenance is scheduled for all equipment at the sewage treatment plant and pumping stations at regular frequency (frequency depends on the equipment and type of maintenance). Maintenance activities are scheduled within the work management system (WMS), upon completion, Operators set the work order to complete. On a monthly basis, preventative work orders are reviewed for completion.

On May 16, 2023, SCG Flowmetrix performed an annual third party instrument verification of the final effluent, influent, return activated sludge discharge, waste activated sludge and pumping station flow meters. All flow meters passed the annual verification. On April 13 & 14 and October 17, 2023 SPD Sales Ltd. calibrated the gas detection equipment. On April 13, 2023, SPD Sales Ltd. calibrated spectrophotometers, portable meters, colourimeters, and DO probes, used in the Port Elgin Sewage Treatment Plant. The meter/probes were cleaned, parts were replaced and the devices were calibrated and verified that the devices were performing to factory specifications.

All records for the above mentioned calibrations/ verifications can be found in Appendix B.

## **7. Sludge Generation & Disposal**

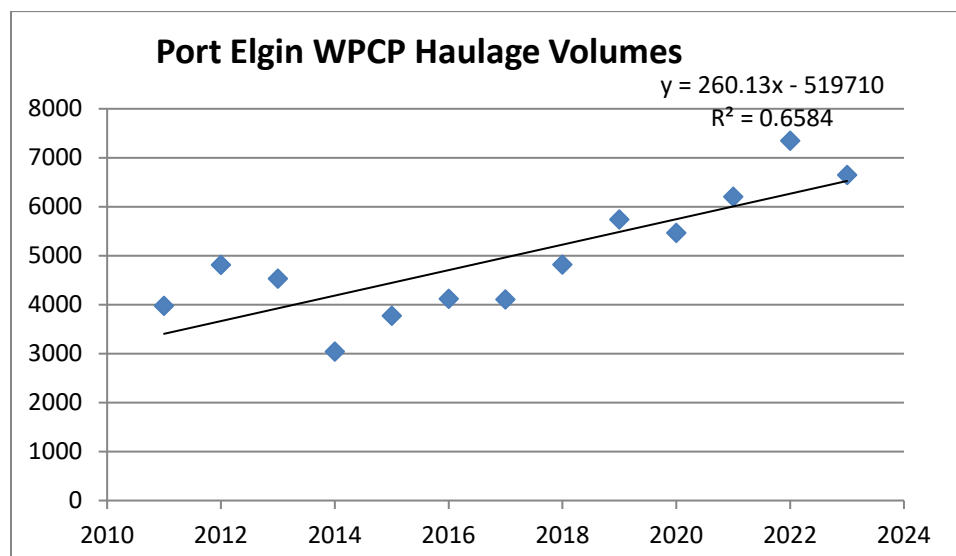
As per Section 11, (4)(h) of Environmental Compliance Approval (ECA) 0556-AKQN3Q, *the volume of sludge generated during the reporting period and an outline of anticipated volumes to be generated over the next reporting period and a summary of the locations where the sludge was disposed is required.*

According to the sludge haulage check sheets, a total volume of 6,644 m<sup>3</sup> of sludge was generated from the Port Elgin Sewage Treatment Plant and applied to agricultural land during the reporting period. Table 11 summarizes the sludge haulage volumes for 2023. The hauling and spreading of sludge from the Port Elgin sewage treatment plant was conducted by Bartel's Environmental Services. A chemical analysis of the sludge/biosolids quality can be found in Appendix C.

**Table 11.** Volume of Sludge Generated from Port Elgin Sewage Treatment Plant

Site	Volume of Sludge Generated (m <sup>3</sup> )	Hauler	Haulage Dates
23706	1,188	Bartel's Environmental	May 17, 18
25078	352	Bartel's Environmental	May 19
25095	2,288	Bartel's Environmental	June 15, 16, 17, 19, 20, 21
24198	1,672	Bartel's Environmental	September 7, 8
25069	1,144	Bartel's Environmental	October 25, 26

Based on a linear regression with an R<sup>2</sup> value of 66%, the anticipated volume to be generated over the next reporting period is approximately 6,793 m<sup>3</sup>.



**Figure 1.** Port Elgin Sewage Treatment Plant Haulage Volumes (2011 to 2024)

In 2023 sludge was handled and hauled by Bartels Environmental Inc. and applied to Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA) approved Non-Agricultural Source Material Plans (NASM Plans) and C of As based on Ontario Regulation 338/09 made under the Nutrient Management Act, 2002. NASM Plans under the Nutrient Management Act are issued to the owner (farmer) who is responsible for managing this plan with assistance from the NASM Plan Developer. See Appendix D for Sludge Haulage Records for Port Elgin Sewage Treatment Plant.

Grab samples of digested (aerobic) sludge were collected as the sludge was being transferred from the digester to the hauling truck (see Appendix C for laboratory results). With the exception of total solids and volatile suspended solids, all other samples were analyzed by SGS Canada Inc. Sludge analyses showed that the sludge met the quality criteria specified in the Ontario Guidelines for the Utilization of Biosolids and Other Wastes on Agricultural Land (Guidelines). A summary of sludge haulage and sample and quality report results is attached in Appendix C.

## 8. Community Complaints

As per Section 11, (4)(i) of Environmental Compliance Approval (ECA) 0556-AKQN3Q, *a summary of complaints received during the reporting period and any steps taken to address the complaints* is required.

During the reporting period, OCWA staff received zero (0) community complaints. Typically, the Town will address complaints by verifying if there are odours in the surrounding area physically by attending the location of the complaint and creating an odour log. The sewers are flushed routinely and the operators of the plant ensure that an odour control atomizer is maintained and functional during any facility process adjustments.

## 9. By-passes, Spills & Discharge Events

As per Section 11, (4)(j) of Environmental Compliance Approval (ECA) 0556-AKQN3Q, *a summary of all Bypasses, Overflows, reportable spills or abnormal discharge event;* is required.

Quarterly summary reports of Bypass and Overflow Event(s) were prepared and submitted to the MECP in accordance with the facility's most current ECA, Section 4.5 and 5.5.

The following events occurred in 2023:

Date (yyyy/mm/dd)	Event	Details
N/A	N/A	N/A

## 10. Municipal Sewage Collection System – Annual Performance Report

This report was prepared in accordance with the requirements of the Environmental Compliance Approval for a Municipal Sewage Collection Systems, Schedule E, Section 4.6.1.

<b>Municipal Sewage Collection System ECA #</b>	093-W601, Issue 1
<b>Sewage Works</b>	Saugeen Shores Municipal Sewage Collection System
<b>Collection System Owner</b>	The Corporation of the Town of Saugeen Shores
<b>Reporting Period</b>	January 1, 2023 to December 31, 2023

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

Yes

*Note: As per Schedule E, Section 4.7.1 of CLI-ECA #093-W601, the annual performance report must be made available, on request and without charge, to members of the public who are served by the Authorized System; and 4.7.2 must be made available, by June 1<sup>st</sup> of the same reporting year, to members of the public without charge by publishing the report on the Internet, if the Owner maintains a website on the Internet.*

**Location where Annual Performance Report required under CLI-ECA #093-W601 Schedule E will be available for inspection. (CLI-ECA #093-W601, Schedule E, Section 4.7.1 & 4.7.2):**

- Town of Saugeen Shores Municipal Office, 600 Tomlinson Dr, Port Elgin, ON N0H 2C0
- <https://www.saugeenshores.ca/en/town-hall/water-reports.aspx#2022-WaterWastewater-Reports>

Pursuant to Schedule E, sections 4.6.3 to 4.6.9, this Annual Performance Report shall:

- a) If applicable, includes a summary of all required monitoring data along with an interpretation of the data and any conclusion drawn from the data evaluation about the need for future modifications to the Authorized System or system operations.
- b) If applicable, include a summary of any operating problems encountered and corrective actions taken.
- c) Includes a summary of all calibration, maintenance, and repairs carried out on any major structure, Equipment, apparatus, mechanism, or thing forming part of the Municipal Sewage Collection System.
- d) Include a summary of any complaints related to the Sewage Works received during the reporting period and any steps taken to address the complaints.
- e) Include a summary of all Alterations to the Authorized System within the reporting period that are authorized by this Approval including a list of Alterations that pose a Significant Drinking Water Threat.
- f) Include a summary of all Collection System Overflow(s) and Spill(s) of Sewage.
- g) Includes a summary of efforts made to reduce Collection System Overflows, Spills, STP Overflows, and/or STP Bypasses.

### **10.1 Description of the Works**

The Town of Saugeen Shores Municipal Sewage Collection System consists of two separate subsystems; the Port Elgin Wastewater Collection Subsystem and the Southampton Wastewater Collection Subsystem. For the purposes of this annual report, only the Port Elgin Wastewater Collection Subsystem will be included. For further information on the Southampton Wastewater Collection System, please refer to the Southampton WWTP 2023 Annual Performance Report.

The Port Elgin Wastewater Collection Subsystem consists of sewage works for the collection and transmission of sewage, consisting of trunk sewers, separate sewers, sewage pumping stations, and forcemains, with discharge into the Port Elgin Water Pollution Control Plant.

The sewage pumping station in the Authorized system include:

- Westlink Pumping Station – located at 2089 Bruce County Rd 17. Consists of a wetwell, a control building, two pumps, a stand-by diesel generator and discharges into a gravity sewer at the top of the hill on Green St.
- Harbour St. Pumping Station – located at 632 Harbour St. Consists of a drywell, a control building, three pumps, a stand-by diesel generator, and discharges to the WWTP headworks building.
- Tomlinson Dr. Pumping Station – located at 500 Tomlinson Dr. Consists of a wetwell, a control building, two pumps, a stand-by diesel generator and discharges into a gravity sewer that flows to the 10<sup>th</sup> Concession Pumping Station.
- Mill Creek Pumping Station – located at 525 Mill Creek Rd. Consists of a wetwell, a control building, two pumps, a stand-by diesel generator and discharges into a gravity sewer that flows to Harbour St. Pumping Station.

- Shipley Pumping Station – located at 65 Shipley Ave. Consists of a wetwell, a control building, two pumps, a stand-by diesel generator and discharges into a gravity sewer that flows into Harbour St. Pumping Station.
- 10<sup>th</sup> Concession Pumping Station – located at 345 10<sup>th</sup> Concession. Consists of a drywell, a control building, two pumps, a stand-by diesel generator and discharges to the WWTP headworks building.

The Town of Saugeen Shores Municipal Sewage Collection Systems contains no combined sewage pumping stations, no combined sewage storage structures or combined storage tanks. The authorized collection system also contains no authorized combined sewer collection system overflow points and no authorized sanitary sewer overflow points.

Prior to January 10, 2023, Shipley Ave. Pumping Station was captured under CofA 9916-5YPTLB. On January 10, 2023, Municipal Sewage Collection System ECA Number 093-W601, Issue 1, was issued to the Town of Saugeen Shores Municipal Sewage Collection Systems incorporating all Pumping Stations, sewers, separate sewers and forcemains into one Consolidated Linear Infrastructure ECA. As such, all prior ECAs, issued by the Director for Sewage Works are considered revoked and replaced by ECA Number 093-W601.

## **10.2 Summary of Monitoring Data and Interpretation**

No monitoring data was required within the municipal sewage collection system for the reporting period.

## **10.3 Summary of Operating Problems Encountered and Corrective Actions Taken**

There were no operating problems encountered within the municipal sewage collection system for the reporting period.

## **10.4 Summary of Calibration, Maintenance and Repairs**

All in-house monitoring equipment is calibrated/verified as per manufacturer's recommendations. Monitoring and metering equipment is also calibrated by a third party on an annual basis. Preventative maintenance is scheduled for all equipment at the sewage treatment plant and pumping stations at regular frequency (frequency depends on the equipment and type of maintenance). Maintenance activities are scheduled within the work management system Maximo, upon completion, operators set the work order to complete. On a monthly basis, preventative work orders are reviewed for completion.

On May 16, 2023, SCG Flowmetrix performed an annual third party instrument verification of the final effluent, influent, return activated sludge discharge, waste activated sludge and pumping station flow meters. All flow meters passed the annual verification. On April 13 & 14 and October 17, 2023 SPD Sales Ltd. calibrated the gas detection equipment. On April 13, 2023, SPD Sales Ltd. calibrated spectrophotometers, portable meters, colourimeters, and DO probes, used in the Port Elgin Sewage Treatment Plant. The meter/probes were cleaned, parts were replaced and the devices were calibrated and verified that the devices were performing to factory specifications.

Annual Performance Report: January 1, 2023 to December 31, 2023

Town of Saugeen Shores: Port Elgin Water Pollution Control Plant

ECA # 0556-AKQN3Q (Issued May 30, 2017)

Municipal Sewage Collection System ECA #093-W601, Issue 1 (Issue Date: January 10, 2023)

All records for the above mentioned calibrations/ verifications can be found in Appendix B.

Major maintenance activities for the sewage pump stations can be found in section 4 of this report.

#### **10.5 Community Complaints Received in Relation to the Sewage Works**

There were no complaints reported during the reporting period for the collection system.

#### **10.6 Alterations to the Authorized System**

For 2023, major maintenance activities that occurred within the Authorized System include:

- Sandy Acres Isolation valve replacement (collection system)
- 10<sup>th</sup> concession air relief valve replacement (3 of them on forcemain)
- 10<sup>th</sup> concession forcemain couplers replaced (3 of them)
- Chamber hatch/ lid installation
- Float switches replaced
- New pump ordered for 10<sup>th</sup> concession

There were no alterations performed within the Authorized System that pose a Significant Drinking Water Threat.

#### **10.7 Summary of Collection System Overflow(s) and Spill(s) of Sewage**

There were no collection system overflow or spill events that occurred during the reporting period.

#### **10.8 Efforts Made to Reduce Collection System Overflows, Spills, STP Overflows, and/or STP Bypasses.**

The sewage pump stations are equipped with alarm monitoring for high flow events. Preventative maintenance procedures are in place to ensure the sewage pump stations are operating as designed and include:

- Wet well cleanouts
- Daily inspections of pump stations
- Annual cleanouts
- Pump inspections
- Alarm testing
- Generator inspection and maintenance

# **Appendix A**

## Performance Assessment Report

5069 PORT ELGIN WASTEWATER TREATMENT FACILITY 120001470

	1 / 2023	2/ 2023	3/ 2023	4/ 2023	5/ 2023	6/ 2023	7/ 2023	8/ 2023	9/ 2023	10/ 2023	11/ 2023	12/ 2023	<--Total-->	<--Avg-->	<--Max-->	<-Criteria-->
--	----------	---------	---------	---------	---------	---------	---------	---------	---------	----------	----------	----------	-------------	-----------	-----------	---------------

Flows

Raw Flow: Total - Raw Sewage m³/d	85,738.00	78,460.00	87,043.00	96,985.00	95,790.00	90,290.00	84,270.00	84,044.00	78,132.00	84,022.00	77,770.00	81,223.00	1,023,767.00			0.00
Raw Flow: Avg - Raw Sewage m³/d	2,765.74	2,802.14	2,807.84	3,232.83	3,090.00	3,009.67	2,718.39	2,711.10	2,604.40	2,710.39	2,592.33	2,620.10		2,804.84		6,455.00
Raw Flow: Max - Raw Sewage m³/d	3,087.00	3,335.00	3,889.00	4,374.00	3,470.00	3,995.00	3,008.00	3,072.00	3,119.00	3,257.00	2,773.00	3,106.00			4,374.00	0.00
Raw Flow: Count - Raw Sewage m³/d	31.00	28.00	31.00	30.00	31.00	30.00	31.00	31.00	30.00	31.00	30.00	31.00	365.00			0.00
Eff. Flow: Total - Effluent m³/d	126,896.00	116,720.00	130,348.00	142,789.00	138,625.00	122,619.00	129,043.00	128,823.00	119,904.00	127,334.00	118,879.00	126,859.00	1,528,839.00			0.00
Eff. Flow: Avg - Effluent m³/d	4,093.42	4,168.57	4,204.77	4,759.63	4,471.77	4,087.30	4,162.68	4,155.58	3,996.80	4,107.55	3,962.63	4,092.23		4,188.60		6,455.00
Eff. Flow: Max - Effluent m³/d	4,656.00	4,628.00	4,782.00	6,549.00	4,947.00	4,415.00	5,457.00	4,656.00	4,605.00	4,751.00	5,421.00	4,790.00			6,549.00	0.00
Eff Flow: Count - Effluent m³/d	31.00	28.00	31.00	30.00	31.00	30.00	31.00	31.00	30.00	31.00	30.00	31.00	365.00			0.00

Carbonaceous Biochemical Oxygen Demand: CBOD

Eff: Avg cBOD5 - Effluent mg/L	<	2.80	<	2.50	<	2.25	<	2.00	<	3.00		3.00	<	2.50	<	2.20	<	2.00	<	2.40	<	2.25	<	3.00			<	2.50	<		25.00
Eff: # of samples of cBOD5 - Effluent		5.00		4.00		4.00		4.00		5.00		4.00		4.00		5.00		4.00		5.00		4.00		4.00		52.00					0.00
Loading: cBOD5 - Effluent kg/d	<	11.462	<	10.421	<	9.461	<	9.519	<	13.415		12.262	<	10.407	<	9.142	<	7.994	<	9.858	<	8.916	<	12.277			<	10.47	<	13.42	161.000

Biochemical Oxygen Demand: BOD5

Raw: Avg BOD5 - Raw Sewage mg/L		67.00		58.00		105.00		76.00		176.00		51.00		123.00		241.00		383.00		204.00		212.00		131.00				152.25		383.00	0.00
Raw: # of samples of BOD5 - Raw Sewage		1.00		1.00		1.00		1.00		1.00		1.00		1.00		1.00		1.00		1.00		1.00		1.00		12.00					0.00

Total Suspended Solids: TSS

Raw: Avg TSS - Raw Sewage mg/L		68.00		37.00		122.00		99.00		164.00		125.00		102.00		212.00		193.00		205.00		477.00		124.00				160.67		477.00	0.00
Raw: # of samples of TSS - Raw Sewage		1.00		1.00		1.00		1.00		1.00		1.00		1.00		1.00		1.00		1.00		1.00		1.00		12.00					0.00
Eff: Avg TSS - Effluent mg/L		6.60		4.00		5.50		7.50		9.80		8.25		10.50		7.80		2.75		8.40		6.00	<	6.75				7.08		10.50	25.00
Eff: # of samples of TSS - Effluent		5.00		4.00		4.00		4.00		5.00		4.00		4.00		5.00		4.00		5.00		4.00		4.00		52.00					0.00
Loading: TSS - Effluent kg/d		27.017		16.674		23.126		35.697		43.823		33.720		43.708		32.414		10.991		34.503		23.776	<	27.623				29.64		43.82	161.000
Percent Removal: TSS - Raw Sewage %		90.29		89.19		95.49		92.42		94.02		93.40		89.71		96.32		98.58		95.90		98.74		94.56				94.05		98.74	0.00

Total Phosphorus: TP

Raw: Avg TP - Raw Sewage mg/L		1.32		1.07		2.39		1.59		3.87		1.28		2.68		3.69		4.66		4.80		6.10		2.82				3.02		6.10	0.00
Raw: # of samples of TP - Raw Sewage		1.00		1.00		1.00		1.00		1.00		1.00		1.00		1.00		1.00		1.00		1.00		1.00		12.00					0.00
Eff: Avg TP - Effluent mg/L		0.50		0.56		0.38		0.49		0.59		0.55		0.66		0.61		0.44		0.54		0.40		0.24				0.50		0.66	1.00
Eff: # of samples of TP - Effluent		5.00		4.00		4.00		4.00		5.00		4.00		4.00		5.00		4.00		5.00		4.00		4.00		52.00					0.00
Loading: TP - Effluent kg/d		2.030		2.324		1.608		2.332		2.620		2.228		2.737		2.535		1.749		2.218		1.595		0.982				2.10		2.74	6.500
Percent Removal: TP - Raw Sewage %		62.42		47.90		84.00		69.18		84.86		57.42		75.47		83.47		90.61		88.75		93.40		91.49				77.41		93.40	0.00

Nitrogen Series



Raw: Avg TKN - Raw Sewage mg/L			13.70			13.10			23.40			14.90			27.10			13.00			26.50			32.70			39.30			34.80			43.90			25.80				25.68			43.90			0.00	
Raw: # of samples of TKN - Raw Sewage			1.00			1.00			1.00			1.00			1.00			1.00			1.00			1.00			1.00			1.00			1.00			1.00				12.00					0.00		
Eff: Avg TAN - Effluent mg/L	<		0.12	<		0.10	<		0.10	<		0.10	<		0.10	<		0.10	<		0.13	<		0.10	<		0.10	<		0.10	<		0.30	<		0.10			<		0.12	<		0.30			
Eff: # of samples of TAN - Effluent			5.00			4.00			4.00			4.00			5.00			4.00			4.00			5.00			4.00			5.00			4.00			4.00			4.00			52.00					0.00
Loading: TAN - Effluent kg/d	<		0.491	<		0.417	<		0.420	<		0.476	<		0.447	<		0.409	<		0.520	<		0.416	<		0.400	<		0.411	<		1.189	<		0.409			<		0.50	<		1.19			
Eff: Avg NO3-N - Effluent mg/L			24.60			24.08			23.78			21.43			22.52			23.48			24.60			26.24			27.33			26.48			26.25			25.13					24.66			27.33			0.00
Eff: # of samples of NO3-N - Effluent			5.00			4.00			4.00			4.00			5.00			4.00			4.00			5.00			4.00			5.00			4.00			4.00			4.00			52.00					0.00
Eff: Avg NO2-N - Effluent mg/L	<		0.04	<		0.04	<		0.04	<		0.04			0.07			0.06			0.07			0.05	<		0.05	<		0.04	<		0.07	<		0.04			<		0.05	<				0.00	
Eff: # of samples of NO2-N - Effluent			5.00			4.00			4.00			4.00			5.00			4.00			4.00			5.00			4.00			5.00			4.00			4.00			4.00			52.00					0.00
Disinfection																																															
Eff: GMD E. Coli - Effluent cfu/100mL			3.10			2.38			3.64			4.23			3.03			4.52			2.38			2.30			2.38			2.00			3.56			2.38									200.00		
Eff: # of samples of E. Coli - Effluent			5.00			4.00			4.00			4.00			5.00			4.00			4.00			5.00			4.00			5.00			4.00			4.00			4.00			52.00					0.00

## **Appendix B**

### Calibration Reports



AS FOUND CERTIFICATION

FORWARD FLOW DIRECTION

PASS

CLIENT DETAIL

CUSTOMER OCWA - Georgian Highlands - Bruce Hub  
CONTACT Dan MacLeod  
Senior Operations Manager  
18 Caroline Street West  
Southampton, ON N0H 2L0  
Ph: 519-379-0431  
E: danmacleod@ocwa.com

EQUIPMENT DETAIL

[MUT] MANUFACTURER ABB  
MODEL MagMaster  
CONVERTER SERIAL NUMBER 3K620000015307  
FUSE Control Panel CP-01 Fuse Holder ULF7  
  
PLANT ID Port Elgin - Concession # 10 P.S.  
METER ID Pumped Flow  
FIT ID FIT-01  
CLIENT TAG OCWA #227081  
OTHER ORG# 5069  
GPS COORDINATES N44 27.588 W081 23.464  
  
VERIFICATION DATE May 16, 2023  
CAL. FREQUENCY Annual  
CAL. DUE DATE May, 2024

VER. BY - FM Paris Machuk / Mike White

Quality Management Standards Information -  
Reference equipment and instrumentation used to  
conduct this verification test is found in our AC-  
QMS document at the time this test was

PROGRAMMING PARAMETERS

DIAMETER (DN)	mm	350
F.S. FLOW - MAG	LPS	1331.5
F.S. RANGE - O/P	LPS	400.00
TUBE CAL. FACTOR	1	1.3839

FORWARD TOTALIZER INFORMATION

AS FOUND	5789442	M3
AS LEFT	5789479	M3
DIFFERENCE	37	M3

TEST CRITERIA

AS FOUND CERTIFICATION TEST	Yes
FORWARD FLOW DIRECTION	Yes
ALLOWABLE [%] ERROR	5

COMPONENTS TESTED

CONVERTER DISPLAY	yes
mA OUTPUT	yes
TOTALIZER	yes
ACCURACY BASED ON [% o.r.]	yes
ERROR DOCUMENTED IN THIS REPORT; BASED ON % o.r.	

FLOW TUBE SIMULATION

			0.0	0.2	0.5	1.0	2.0	m/s
			0	2	5	10	20	% F.S. Flow
			0.0	6.7	16.6	33.3	66.6	% F.S. Range
REF. FLOW RATE			0.00	26.63	66.57	133.15	266.29	LPS
MUT [Reading]			0.00	26.68	66.61	133.34	266.12	LPS
MUT [Difference]			0.00	0.05	0.04	0.19	-0.17	LPS
MUT [% Error]			n/a	0.19	0.06	0.15	-0.07	%
mA OUTPUT			4.000	5.065	6.663	9.326	14.652	mA
MUT [Reading]			min. 4.000 mA	3.995	5.062	6.664	9.307	mA
MUT [Difference]			max. 20.000 mA	-0.005	-0.003	0.001	-0.019	mA
MUT [% Error]				-0.12	-0.06	0.02	-0.20	%
TOTALIZER - REF. FLOW RATE			Enter in Totalizer Test Velocity if Different (m/s) 2.0				266.293	LPS
TOTALIZER [MUT]							20	M3
TEST TIME							75.02	SECONDS
CALC. TOTALIZER							19.977	M3
ERROR							0.11	%

COMMENTS

QUALITY MANAGEMENT STANDARDS INFO.

[QMS] INFORMATION	IDENT.	ID #
[REFERENCE] FTS	ABBM	1
PROCESS METER	DMM	20
ANALOG METER	AM	N/A
STOP WATCH	SW	Yes

RESULTS

TEST	AVG % o.r.	PASS FAIL
DISPLAY	0.08	PASS
mA OUTPUT	-0.11	PASS
TOTALIZER	0.11	PASS

This report reflects the test results of the overall accuracy for the above flow converter using the specified manufacturers flow tube simulator to within the specified tolerance as identified within this report.

## AS FOUND CERTIFICATION

**PASS**

CLIENT DETAIL		EQUIPMENT DETAIL	
CUSTOMER	OCWA - Georgian Highlands - Bruce Hub	[MUT] MANUFACTURER	Siemens
CONTACT	Dan MacLeod	MODEL	LUT440
	Senior Operations Manager	CONVERTER SERIAL NUMBER	PBD/J1270233
	18 Caroline Street West		
	Southampton, ON N0H 2L0	PLANT ID	Port Elgin WWTP
	Ph: 519-379-0431	METER ID	Final Effluent
	E: danmacleod@ocwa.com	FIT ID	1001
		CLIENT TAG	OCWA# Not Assigned
		OTHER	ORG# 5069
		GPS COORDINATES	N44 26.324 W081 22.358
VER. BY - FM Paris Machuk / Mike White		VERIFICATION DATE	May 16, 2023
Quality Management Standards Information - Reference equipment and instrumentation used to conduct this verification test is found in our AC- QMS document at the time this test was		CAL. FREQUENCY	Annual
		CAL. DUE DATE	May, 2024

PROGRAMMING PARAMETERS			TOTALIZER	
THROAT WIDTH, (exp 1.5)	m	1.500	AS FOUND	8610451.66 M3
EMPTY DISTANCE, TX to notch	m	1.263	AS LEFT	8610522.19 M3
TRANSDUCER (TX), to sump flc	m	n/a	DIFFERENCE	70.53 M3
SUMP LEVEL, zero flow	m	n/a	<b>TEST CRITERIA</b>	
OFFSET FOR ZERO	m	0.033	AS FOUND CERTIFICATION TEST	Yes
MAX. HEAD	m	0.187	ALLOWABLE [%] ERROR	5
BLANKING DISTANCE	m	0.305	<b>COMPONENTS TESTED</b>	
DEAD ZONE	m	1.076	CONVERTER DISPLAY	yes
MAX. FLOW	M3/D	18718.6	mA OUTPUT	yes
F.S. RANGE - O/P	M3/D	18718.6	TOTALIZER	yes
Ultrasonic sensor installed to ensure full scale flow condition			ACCURACY BASED ON [% o.r.]	no
			ERROR DOCUMENTED IN THIS REPORT; BASED ON % F.S.	

AS FOUND TEST RESULTS							
		0.0	14.1	39.7	72.5	94.8	% F.S. Range
		0.000	0.050	0.100	0.150	0.180	m
<b>REF. FLOW RATE</b>		<b>0.0</b>	<b>2645.5</b>	<b>7432.3</b>	<b>13561.7</b>	<b>17754.5</b>	M3/D
MUT [Reading]		0.0	2578.8	7661.0	13876.4	18122.5	M3/D
MUT [Difference]		0.0	-66.7	228.7	314.7	368.0	M3/D
MUT [% Error]		0.0	-0.4	1.2	1.7	2.0	%
<b>mA OUTPUT</b>		<b>4.000</b>	<b>6.261</b>	<b>10.353</b>	<b>15.592</b>	<b>19.176</b>	mA
MUT [Reading]	min. 4.000 mA	4.016	6.186	10.540	15.758	19.568	mA
MUT [Difference]	max. 20.000 mA	0.016	-0.075	0.187	0.166	0.392	mA
MUT [% Error]		0.08	-0.38	0.94	0.83	1.96	%
<b>TOTALIZER - REF. FLOW RATE</b>						<b>17754.526</b>	M3/D
TOTALIZER [MUT]						19.69	M3
TEST TIME						93.39	SECONDS
CALC. TOTALIZER						19.191	M3
ERROR						2.53	%

COMMENTS			QUALITY MANAGEMENT STANDARDS INFO.			RESULTS		
Unit is working as expected - recommend look at doing setup again for empty distance values			[QMS] INFORMATION	IDENT.	ID #	TEST	AVG %FS	PASS FAIL
			[REFERENCE] LEVEL	Sim. BOARD	Yes			
			PROCESS METER	DMM	20	DISPLAY	1.13	PASS
			STOP WATCH	SW	Yes	mA OUTPUT	0.69	PASS
						TOTALIZER	2.53	PASS

This report reflects the test results of the overall accuracy for the above flow converter using the specified manufacturers flow tube simulator to within the specified tolerance as identified within this report.



## AS FOUND CERTIFICATION

**PASS**

### CLIENT DETAIL

CUSTOMER OCWA - Georgian Highlands - Bruce Hub  
CONTACT Dan MacLeod  
Senior Operations Manager  
18 Caroline Street West  
Southampton, ON N0H 2L0  
Ph: 519-379-0431  
E: danmacleod@ocwa.com

### EQUIPMENT DETAIL

[MUT] MANUFACTURER Endress + Hauser  
MODEL FMU90  
CONVERTER SERIAL NUMBER N80035150E6  
  
PLANT ID Port Elgin WWTP  
METER ID Influent Raw Flow  
FIT ID N/A  
CLIENT TAG N/A  
OTHER N/A  
GPS COORDINATES N44 26.324 W081 22.358  
ADDRESS  
VERIFICATION DATE May 16, 2023  
CAL. FREQUENCY Annual  
CAL. DUE DATE May, 2024

VER. BY - FM Paris Machuk / Mike White

Quality Management Standards Information -  
Reference equipment and instrumentation used to  
conduct this verification test is found in our AC-  
QMS document at the time this test was

### PROGRAMMING PARAMETERS

PARAMETER	UNIT	VALUE
THROAT DIMENSION (DN)	inches	18
EMPTY DISTANCE	m	1.327
MAX. HEAD	m	0.368
DEAD ZONE	m	0.959
BLANKING DISTANCE	m	0.070
MAX. FLOW	M3/H	817.0
F.S. RANGE - O/P	M3/H	2595.0

### TOTALIZER

PARAMETER	VALUE	UNIT
AS FOUND	4954626	M3
AS LEFT	4954876	M3
DIFFERENCE	250	M3

### TEST CRITERIA

TEST CRITERIA	RESULT
AS FOUND CERTIFICATION TEST	Yes
ALLOWABLE [%] ERROR	15

### COMPONENTS TESTED

COMPONENT	TESTED
CONVERTER DISPLAY	yes
mA OUTPUT	yes
TOTALIZER	yes
ACCURACY BASED ON [% o.r.]	no

Ultrasonic sensor installed to ensure full scale flow condition

ERROR DOCUMENTED IN THIS REPORT; BASED ON % F.S.

### AS FOUND TEST RESULTS

			0.0	13.5	39.1	73.0	92.6	% F.S. Range
			0.000	0.100	0.200	0.300	0.350	m
<b>REF. FLOW RATE</b>			<b>0</b>	<b>110</b>	<b>320</b>	<b>597</b>	<b>756</b>	<b>M3/H</b>
MUT [Reading]			0.00	115.69	325.34	608.59	763.01	M3/H
MUT [Difference]			0.00	5.54	5.49	11.86	6.62	M3/H
MUT [% Error]			n/a	0.68	0.67	1.45	0.81	%
<b>mA OUTPUT</b>			<b>4.000</b>	<b>6.157</b>	<b>10.264</b>	<b>15.686</b>	<b>18.812</b>	<b>mA</b>
MUT [Reading]			min. 4.000 mA	4.002	6.176	10.030	15.280	18.140
MUT [Difference]			max. 20.000 mA	0.002	0.019	-0.234	-0.406	-0.672
MUT [% Error]				0.01	0.10	-1.17	-2.03	-3.36
<b>TOTALIZER - REF. FLOW RATE</b>							<b>756.385</b>	<b>M3/H</b>
TOTALIZER [MUT]							15	M3
TEST TIME							71.80	SECONDS
CALC. TOTALIZER							15.086	M3
ERROR							-0.57	%

### COMMENTS

- Configuration Parameters checked and remeasured. Readings are accurate. Output is off slightly due to an unknown programming parameter. Since the daily total is taken off the local display this was not adjusted. Could be adjusted on the PLC end if necessary.

### QUALITY MANAGEMENT STANDARDS INFO.

[QMS] INFORMATION	IDENT.	ID #
[REFERENCE] LEVEL	Sim. BOARD	Yes
PROCESS METER	DMM	20
STOP WATCH	SW	Yes

### RESULTS

TEST	AVG %FS	PASS FAIL
DISPLAY	0.90	PASS
mA OUTPUT	-1.29	PASS
TOTALIZER	-0.57	PASS

This report reflects the test results of the overall accuracy for the above flow converter using the specified manufacturers flow tube simulator to within the specified tolerance as identified within this report.



AS FOUND CERTIFICATION

FORWARD FLOW DIRECTION

PASS

CLIENT DETAIL			EQUIPMENT DETAIL		
CUSTOMER	OCWA - Georgian Highlands - Bruce Hub		[MUT] MANUFACTURER		ABB
CONTACT	Dan MacLeod		MODEL		MagMaster
	Senior Operations Manager		CONVERTER SERIAL NUMBER		V/88589/2/1
	18 Caroline Street West		FUSE		Lighting Panel - Breaker #7
	Southampton, ON N0H 2L0				
	Ph: 519-379-0431		PLANT ID		Port Elgin WWTP
	E: danmacleod@ocwa.com		METER ID		RAS Pump Discharge Flow
			FIT ID		N/A
			CLIENT TAG		OCWA# 71258
			OTHER		ORG# 5069
			GPS COORDINATES		N44 26.324 W081 22.358
VER. BY - FM	Paris Machuk / Mike White				
Quality Management Standards Information - Reference equipment and instrumentation used to conduct this verification test is found in our AC- QMS document at the time this test was			VERIFICATION DATE		May 16, 2023
			CAL. FREQUENCY		Annual
			CAL. DUE DATE		May, 2024

PROGRAMMING PARAMETERS			FORWARD TOTALIZER INFORMATION		
DIAMETER (DN)	mm	300	AS FOUND	20047021	M3
F.S. FLOW - MAG	LPS	706.9	AS LEFT	20047054	M3
F.S. RANGE - O/P	LPS	149.00	DIFFERENCE	33	M3
TUBE CAL. FACTOR	1	1.0000	TEST CRITERIA		
			AS FOUND CERTIFICATION TEST	Yes	
			FORWARD FLOW DIRECTION	Yes	
			ALLOWABLE [%] ERROR	15	
			COMPONENTS TESTED		
			CONVERTER DISPLAY	yes	
			mA OUTPUT	yes	
			TOTALIZER	yes	
			ACCURACY BASED ON [% o.r.]	yes	
			ERROR DOCUMENTED IN THIS REPORT; BASED ON % o.r.		

FLOW TUBE SIMULATION							
		0.0	0.2	0.5	1.0	2.0	m/s
		0	2	5	10	20	% F.S. Flow
		0.0	9.5	23.7	47.4	94.9	% F.S. Range
REF. FLOW RATE		0.00	14.14	35.34	70.69	141.37	LPS
MUT [Reading]		0.00	14.16	36.39	71.32	139.67	LPS
MUT [Difference]		0.00	0.02	1.05	0.63	-1.70	LPS
MUT [% Error]		n/a	0.16	2.96	0.90	-1.20	%
mA OUTPUT		4.000	5.518	7.795	11.590	19.181	mA
MUT [Reading]	min. 4.000 mA	4.000	5.511	7.735	11.598	19.119	mA
MUT [Difference]	max. 20.000 mA	0.000	-0.007	-0.060	0.008	-0.062	mA
MUT [% Error]		0.00	-0.13	-0.77	0.07	-0.32	%
TOTALIZER - REF. FLOW RATE		Enter in Totalizer Test Velocity if Different (m/s) 2.0				141.372	LPS
TOTALIZER [MUT]						10	M3
TEST TIME						70.83	SECONDS
CALC. TOTALIZER						10.013	M3
ERROR						-0.13	%

COMMENTS			QUALITY MANAGEMENT STANDARDS INFO.			RESULTS		
NOTE: during power up for verification unit was resetting every so often like a power up - signs of failure in future - recommend 'budgeting for replacement.			[QMS] INFORMATION	IDENT.	ID #	TEST	AVG % o.r.	PASS FAIL
			[REFERENCE] FTS	ABBM	1	DISPLAY	0.70	PASS
			PROCESS METER	DMM	20	mA OUTPUT	-0.23	PASS
			ANALOG METER	AM	N/A	TOTALIZER	-0.13	PASS
			STOP WATCH	SW	Yes			

This report reflects the test results of the overall accuracy for the above flow converter using the specified manufacturers flow tube simulator to within the specified tolerance as identified within this report.



AS FOUND CERTIFICATION

FORWARD FLOW DIRECTION

PASS

CLIENT DETAIL

CUSTOMER OCWA - Georgian Highlands - Bruce Hub  
CONTACT Dan MacLeod  
Senior Operations Manager  
18 Caroline Street West  
Southampton, ON N0H 2L0  
Ph: 519-379-0431  
E: danmacleod@ocwa.com

EQUIPMENT DETAIL

[MUT] MANUFACTURER ABB  
MODEL MagMaster  
CONVERTER SERIAL NUMBER 08W021272  
FUSE Lighting Panel - Breaker #9  
  
PLANT ID Port Elgin WWTP  
METER ID Was/Scum Flow Meter  
FIT ID N/A  
CLIENT TAG OCWA #61152  
OTHER ORG# ?  
GPS COORDINATES N44 26.324 W081 22.358

VER. BY - FM Paris Machuk / Mike White

Quality Management Standards Information -  
Reference equipment and instrumentation used to  
conduct this verification test is found in our AC-  
QMS document at the time this test was

VERIFICATION DATE May 16, 2023  
CAL. FREQUENCY Annual  
CAL. DUE DATE May, 2024

PROGRAMMING PARAMETERS

DIAMETER (DN) mm 150  
F.S. FLOW - MAG LPS 295.3  
F.S. RANGE - O/P LPS 20.00  
TUBE CAL. FACTOR 1 1.67109

FORWARD TOTALIZER INFORMATION

AS FOUND 203316 M3  
AS LEFT 203320 M3  
DIFFERENCE 4 M3

TEST CRITERIA

AS FOUND CERTIFICATION TEST Yes  
FORWARD FLOW DIRECTION Yes  
ALLOWABLE [%] ERROR 5

COMPONENTS TESTED

CONVERTER DISPLAY yes  
mA OUTPUT yes  
TOTALIZER yes  
ACCURACY BASED ON [% o.r.] yes  
ERROR DOCUMENTED IN THIS REPORT; BASED ON % o.r.

FLOW TUBE SIMULATION

		0.0		0.1	0.2	0.5	m/s
		0		1	2	5	% F.S. Flow
		0.0		14.8	29.5	73.8	% F.S. Range
REF. FLOW RATE		0.00		2.95	5.91	14.77	LPS
MUT [Reading]		0.00		2.99	5.96	14.78	LPS
MUT [Difference]		0.00		0.04	0.05	0.01	LPS
MUT [% Error]		n/a		1.25	0.91	0.10	%
mA OUTPUT		4.000		6.362	8.725	15.812	mA
MUT [Reading]	min. 4.000 mA	3.993		6.392	8.733	15.857	mA
MUT [Difference]	max. 20.000 mA	-0.007		0.030	0.008	0.045	mA
MUT [% Error]		-0.18		0.46	0.09	0.28	%
TOTALIZER - REF. FLOW RATE		Enter in Totalizer Test Velocity if Different (m/s) 0.5					LPS
TOTALIZER [MUT]							M3
TEST TIME							SECONDS
CALC. TOTALIZER							M3
ERROR							%

COMMENTS

NOTE: display has random characters showing through  
display - possible signs of failure in near future.

QUALITY MANAGEMENT STANDARDS INFO.

[QMS] INFORMATION	IDENT.	ID #
[REFERENCE] FTS	ABBMM	1
PROCESS METER	DMM	20
ANALOG METER	AM	N/A
STOP WATCH	SW	Yes

RESULTS

TEST	AVG % o.r.	PASS FAIL
DISPLAY	0.75	PASS
mA OUTPUT	0.17	PASS
TOTALIZER	0.97	PASS

This report reflects the test results of the overall accuracy for the above flow converter using the specified manufacturers flow tube simulator to within the specified tolerance as identified within this report.



## CALIBRATION / VERIFICATION

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Web Site: [www.spdsales.com](http://www.spdsales.com)

Customer Name:	OCWA - Southampton							
Plant Name and address:	Port Elgin WWTP - 815 Lehn St, Port Elgin, ON							
Service Date:	13-Apr-23	Instrument Type:	AIT	W.O. Number:	230295-0001	Asset#:	NA	
Due Date:	13-Apr-24	Manufacturer:	Hach					
Follow-Up Required:	No	Model:	Transmitter:	HQ11d	Sensor:	PHC101		
As Left Status:	Initial Condt	Serial #:	Transmitter:	080200017705	Sensor:	NA		
Instrument Visual Inspection:		Range:	0-14 PH			Output:	NA	
Mechanical Inspection:	OK	Tag Infomration:	NA					
Electrical Inspection:	OK	Description:	Portable PH Probe					
As found Display information:	OK	Process/Location Descrption:	Operator Room					

Instrument Information:	
Range:	14
Slope:	-57 mV/PH
Offset:	-53.7 mV

Input	Input %	Temp. °C	As Found	Deviation	As Left	Deviation
4.01	28.64%	20.80	4.09	2.00%	4.05	1.00%
7.00	50.00%	20.80	7.25	3.57%	7.05	0.71%
10.00	71.43%	20.80	10.48	4.80%	10.09	0.90%

Comments	Test Equipment Used		
	Name / Type	Serial No.	Due Date
Calibrated Successfully	pH 4.00 Cat 2283449	Lot#A2045	Feb-26
	pH 7.00 Cat2283549	Lot #A2059	Mar-24
	pH 10.00 Cat2283649	Lot #A2341	Dec-23
	Technician Name		Witness Name
	Vaibhav Patel		kone Kennedy
Calibration Result:	Pass	Date:	13-Apr-23
		Date:	13-Apr-23





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Customer Name:	OCWA - Southampton						
Plant Name and address:	Port Elgin WWTP - 815 Lehnen St, Port Elgin, ON						
Service Date:	13-Apr-23	Instrument Type:	AIT	W.O. Number:	230295-0001	Asset#:	NA
Due Date:	13-Apr-24	Manufacturer:	Hach				
Follow-Up Required:	No	Model:	Pocket Colorimeter				
As Left Status:	Initial Condt	Serial #:	030500035442				
Instrument Visual Inspection:		Range:	NA		Output:	NA	
Mechanical Inspection:	OK	Tag Infomration:	NA				
Electrical Inspection:	OK	Description:	Portable Chlorine Meter				
As found Display information:	OK	Process/Location Descrpition:	Operator Room				

Instrument Information:		
Unit of measurement:	mg/l	
Range of the meter:	NA	
Calibration Standard Solution 1:	0.19	+/-0.09
Calibration Standard Solution 2:	0.84	+/-0.10
Calibration Standard Solution 3:	1.47	+/-0.14

Chlorine Standard	Output Value	As Found	Deviation	As Left	Deviation
0.19	0.19	0.18	-5.26%	0.18	-5.26%
0.84	0.84	0.82	-2.38%	0.82	-2.38%
1.47	1.47	1.48	0.68%	1.48	0.68%

Comments		Test Equipment Used		
		Name / Type	Serial No.	Due Date
Verified Successfully		DPD Chlorine LR Standard Kit	Lot #A2027	Feb-24
As the instrument being obsolete, Calibration can not be performed.				
		Technician Name	Witness Name	
		Vaibhav Patel	Kole Kennedy	
Verification Result:	Pass	Date:	13-Apr-23	Date: 13-Apr-23



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Customer Name:	OCWA - Southampton							
Plant Name and address:	Port Elgin WWTP - 815 Lehn St, Port Elgin, ON							
Service Date:	13-Apr-23	Instrument Type:	AIT	W.O. Number:	230295-0001	Asset#:	NA	
Due Date:	13-Apr-24	Manufacturer:	Hach					
Follow-Up Required:	No	Model:	Transmitter:	HQ1130D	Sensor:	LDO		
As Left Status:	Initial Condt	Serial #:	Transmitter:	230191130055	Sensor:	222302599464		
Instrument Visual Inspection:		Range:	NA			Output:	NA	
Mechanical Inspection:	OK	Tag Infomration:	NA					
Electrical Inspection:	OK	Description:	Portable DO Probe					
As found Display information:	OK	Process/Location Description:	Operator Room					

Instrument Information:	
<b>Range</b>	Auto
<b>Temperature:</b>	18 Degree C
<b>Offset</b>	0
<b>Slope</b>	99.50%

Input		mg/L		As Found	Deviation	As Left	Deviation
Dissolved oxygen from Air	Should be between 8 to10 mg/l	9.03		8.65	-4.21%	8.57	-5.09%

Comments		Test Equipment Used		
		Name / Type	Serial No.	Due Date
Air calibration was performed.				
As left reading was 8.57 mg/l in air.				
Disolved oxygen in Air depends on the various parameter such as temperature, pressure and weather conditins.				
		Technician Name		Witness Name
		Vaibhav Patel		Justin Porter
<b>Calibration Result:</b>	Pass	<b>Date:</b>	13-Apr-23	<b>Date:</b> 13-Apr-23



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Customer Name:	OCWA - Southampton						
Plant Name and address:	Port Elgin WWTP - 815 Lehn St, Port Elgin, ON						
Service Date:	13-Apr-23	Instrument Type:	AIT	W.O. Number:	230295-0001	Asset#:	NA
Due Date:	13-Apr-24	Manufacturer:	Hach				
Follow-Up Required:	No	Model:	Transmitter:	SC200	Sensor:	LDO	
As Left Status:	Initial Condt	Serial #:	Transmitter:	1806C0162137	Sensor:	001101410029	
Instrument Visual Inspection:		Range:	NA		Output:	4-20 mA	
Mechanical Inspection:	OK	Tag Infomration:	NA				
Electrical Inspection:	OK	Description:	East Tank DO Probe				
As found Display information:	OK	Process/Location Descrpition:	outside				

Instrument Information:	
<b>Range at 4 mA:</b>	Auto Range
<b>Range at 20 mA:</b>	Auto Range
<b>Temperature:</b>	21 Degree C
<b>Slope correction</b>	0.95

Input		mg/L		As Found	Deviation	As Left	Deviation
Dissolved oxygen from Air	Should be between 8 to10 mg/l	9.03		12.20	35.11%	9.48	4.98%

Comments		Test Equipment Used			
		Name / Type		Serial No.	Due Date
Air calibration was performed.					
As left reading was 9.48 mg/l in air.					
Disolved oxygen in Air depends on the various parameter such as temperature, pressure and weather conditins.					
<b>Other Outputs Tested:</b>	Not tested	<b>Technician Name</b>		<b>Witness Name</b>	
<b>Loop Check Performed:</b>	Not tested	Vaibhav Patel		Kone Kennedy	
<b>Within Specification:</b>	Yes	<b>Date:</b>	13-Apr-23	<b>Date:</b>	13-Apr-23



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Web Site: [www.spdsales.com](http://www.spdsales.com)

Customer Name:	OCWA - Southampton							
Plant Name and address:	Port Elgin WWTP - 815 Lehn St, Port Elgin, ON							
Service Date:	13-Apr-23	Instrument Type:	AIT	W.O. Number:	230295-0001	Asset#:	NA	
Due Date:	13-Apr-24	Manufacturer:	Hach					
Follow-Up Required:	No	Model:	Transmitter:	SC200	Sensor:	LDO		
As Left Status:	Initial Condt	Serial #:	Transmitter:	1806C0162137	Sensor:	181990000028		
Instrument Visual Inspection:		Range:	NA			Output:	4-20 mA	
Mechanical Inspection:	OK	Tag Infomration:	NA					
Electrical Inspection:	OK	Description:	West Tank DO Probe					
As found Display information:	OK	Process/Location Descrpition:	outside					

Instrument Information:	
<b>Range at 4 mA:</b>	Auto Range
<b>Range at 20 mA:</b>	Auto Range
<b>Temperature:</b>	21 Degree C
<b>Slope correction</b>	0.87

Input		mg/L		As Found	Deviation	As Left	Deviation
Dissolved oxygen from Air	Should be between 8 to10 mg/l	9.03		11.28	24.92%	9.85	9.08%

Comments		Test Equipment Used			
		Name / Type		Serial No.	Due Date
Air calibration was performed.					
As left reading was 9.85 mg/l in air.					
Disolved oxygen in Air depends on the various parameter such as temperature, pressure and weather conditins.					
<b>Other Outputs Tested:</b>	Not tested	<b>Technician Name</b>		<b>Witness Name</b>	
<b>Loop Check Performed:</b>	Not tested	Vaibhav Patel		Kone Kennedy	
<b>Within Specification:</b>	Yes	<b>Date:</b>	13-Apr-23	<b>Date:</b>	13-Apr-23



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Customer Name:	OCWA - Southhampton						
Plant Name and address:	632 Harbour St ON						
Service Date:	13-Apr-23	Instrument Type:	AIT	W.O. Number:	220902-0002	Asset#:	NA
Due Date:	13-Oct-23	Manufacturer:	MSA				
Follow-Up Required:	No	Model:	ULTIMA - X 5000				
As Left Status:	Initial Condt	Serial #:	0001002001150000D				
Instrument Visual Inspection:		Range:	0-100% LEL	Output:	4-20 mA		
Mechanical Inspection:	OK	Tag Infomration:	NA				
Electrical Inspection:	OK	Description:	Monitoring Methane Gas				
As found Display information:	OK	Process/Location Descrption:	632 Harbour St Pumping station				

Instrument Information:	
Sensor Type and unit:	LEL, %
Zero Gas Value:	0
Span Gas Value:	50
Gas Range Value:	0-100
Caution Level:	NA
Warning Level:	10
Alarm Level:	20

Gas	Gas Value	As Found	Deviation	As Left	Deviation
Zero	0	0	0.00%	0	0.00%
Span	50	50	0.00%	50	0.00%

Comments		Test Equipment Used			
		Name / Type		Serial and Due Date	
Calibrated successfully		CalGas Methane 2.5% Vol (50%)		304-402205618-1, Aug-2025	
		CalGas Oxygen 20.8% Vol		304-402190658-1, Aug-2025	
Other Outputs Tested:	Not tested	Technician Name		Witness Name	
Loop Check Performed:	Not Tested	Vaibhav Patel		Kone Kennedy	
Within Specification:	Yes	Date:	13-Apr-23	Date:	13-Apr-23



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Web Site: [www.spdsales.com](http://www.spdsales.com)

Customer Name:	OCWA - Southhampton						
Plant Name and address:	632 Harbour St ON						
Service Date:	13-Apr-23	Instrument Type:	AIT	W.O. Number:	220902-0002	Asset#:	NA
Due Date:	13-Oct-23	Manufacturer:	MSA				
Follow-Up Required:	No	Model:	ULTIMA - X 5000				
As Left Status:	Initial Condt	Serial #:	0001002001170019				
Instrument Visual Inspection:		Range:	0-25 O2%, 0- 50 PPM H2S	Output:	4-20 mA		
Mechanical Inspection:	OK	Tag Infomration:	NA				
Electrical Inspection:	OK	Description:	Monitoring Oxygen Gas & H2S Gas				
As found Display information:	OK	Process/Location Descrption:	632 Harbour St Pumping station				

Instrument Information:								
Sensor No.:	Sensor Type	Unit	Zero Gas Value	Span Gas Value	Range Gas Value	Caution Setpoint	Warning Setpoint	Alarm Setpoint
1	O2	%	0	20.80	0-25	NA	19.50	18.00
2	H2S	PPM	0	40	0-50	NA	5.00	15.00

Sensor No.:	Gas	Gas Value	As Found	Deviation	As Left	Deviation
Sensor 1	Zero	0	0	0.00%	0	0.00%
	Span	20.8	20.80	0.00%	20.80	0.00%
Sensor 2	Zero	0	0	0.00%	0	0.00%
	Span	40	37	7.50%	40	0.00%

Comments		Test Equipment Used	
		Name / Type	Serial and Due Date
Calibrated Successfully.		CalGas Oxygen 20.8% Vol	304-402190658-1, Aug-2025
		CalGas H2S 40 PPM	304-402184551-1, Aug-2023
Other Outputs Tested:	Not tested	Technician Name	Witness Name
Loop Check Performed:	Not Tested	Vaibhav Patel	Kone Kennedy
Within Specification:	Yes	Date:	13-Apr-23
		Date:	13-Apr-23



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Web Site: [www.spdsales.com](http://www.spdsales.com)

Customer Name:	OCWA - Southhampton						
Plant Name and address:	345 10th Concession Rd 10, Port Elgin, ON						
Service Date:	13-Apr-23	Instrument Type:	AIT	W.O. Number:	220902-0002	Asset#:	NA
Due Date:	13-Oct-23	Manufacturer:	MSA				
Follow-Up Required:	No	Model:	MSA UltimaX				
As Left Status:	Initial Condt	Serial #:	H09-3188968-10-001				
Instrument Visual Inspection:		Range:	0-100% LEL		Output:	4-20 mA	
Mechanical Inspection:	OK	Tag Infomration:	NA				
Electrical Inspection:	OK	Description:	Monitoring LEL Gas				
As found Display information:	OK	Process/Location Descrpition:	345 10th Concess pumping station				

Instrument Information:	
<b>Sensor Type and unit:</b>	LEL, %
<b>Zero Gas Value:</b>	0
<b>Span Gas Value:</b>	50
<b>Gas Range Value:</b>	0-100
<b>Caution Level:</b>	NA
<b>Warning Level:</b>	10
<b>Alarm Level:</b>	20

Gas	Gas Value	As Found	Deviation	As Left	Deviation
Zero	0	0	0.00%	0	0.00%
Span	50	48	-4.00%	50	0.00%

Comments		Test Equipment Used			
		Name / Type		Serial and Due Date	
Calibrated successfully		CalGas Methane 2.5% Vol (50%)		304-402205618-1, Aug-2025	
		CalGas Oxygen 20.8% Vol		304-402190658-1, Aug-2025	
<b>Other Outputs Tested:</b>	Not tested	<b>Technician Name</b>		<b>Witness Name</b>	
<b>Loop Check Performed:</b>	Not Tested	Vaibhav Patel		Kone Kennedy	
<b>Within Specification:</b>	Yes	<b>Date:</b>	13-Apr-23	<b>Date:</b>	13-Apr-23



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Customer Name:	OCWA - Southhampton						
Plant Name and address:	345 10th Concession Rd 10, Port Elgin, ON						
Service Date:	13-Apr-23	Instrument Type:	AIT	W.O. Number:	220902-0002	Asset#:	NA
Due Date:	13-Oct-23	Manufacturer:	MSA				
Follow-Up Required:	No	Model:	MSA UltimaX				
As Left Status:	Initial Condt	Serial #:	H09-3188968-20-001				
Instrument Visual Inspection:		Range:	0-50PPM	Output:	4-20 mA		
Mechanical Inspection:	OK	Tag Infomration:	NA				
Electrical Inspection:	OK	Description:	Monitoring H2S Gas				
As found Display information:	OK	Process/Location Descrption:	345 10th concess pumping station				

Instrument Information:	
Sensor Type and unit:	H2S , PPM
Zero Gas Value:	0
Span Gas Value:	40
Gas Range Value:	0-50
Caution Level:	NA
Warning Level:	5
Alarm Level:	15

Gas	Gas Value	As Found	Deviation	As Left	Deviation
Zero	0	0	0.00%	0	0.00%
Span	40	38.00	-5.00%	40	0.00%

Comments		Test Equipment Used			
		Name / Type		Serial and Due Date	
Calibrated successfully		CalGas Oxygen 20.8% Vol		304-402190658-1, Aug-2025	
		CalGas H2S 40 PPM		304-402184551-1, Aug-2023	
Other Outputs Tested:	Not tested	Technician Name		Witness Name	
Loop Check Performed:	Not Tested	Vaibhav Patel		Kone Kennedy	
Within Specification:	Yes	Date:	13-Apr-23	Date:	13-Apr-23





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Customer Name:	OCWA - Southhampton						
Plant Name and address:	345 10th Concession Rd 10, Port Elgin, ON						
Service Date:	13-Apr-23	Instrument Type:	AIT	W.O. Number:	220902-0002	Asset#:	NA
Due Date:	13-Oct-23	Manufacturer:	MSA				
Follow-Up Required:	No	Model:	MSA UltimaX				
As Left Status:	Initial Condt	Serial #:	H09-3188968-20-001				
Instrument Visual Inspection:		Range:	0-25% O2	Output:	4-20 mA		
Mechanical Inspection:	OK	Tag Infomration:	NA				
Electrical Inspection:	OK	Description:	Monitoring Oxygen Gas				
As found Display information:	OK	Process/Location Descrption:	345 10th concess pumping station				

Instrument Information:	
Sensor Type and unit:	Oxygen, %
Zero Gas Value:	0
Span Gas Value:	20.80
Gas Range Value:	0-25
Caution Level:	NA
Warning Level:	19.5
Alarm Level:	18

Gas	Gas Value	As Found	Deviation	As Left	Deviation
Zero	0	0	0.00%	0	0.00%
Span	20.8	20.8	0.00%	20.8	0.00%

Comments		Test Equipment Used			
		Name / Type		Serial and Due Date	
Calibrated successfully		CalGas Oxygen 20.8% Vol		304-402190658-1, Aug-2025	
Other Outputs Tested:	Not tested	Technician Name		Witness Name	
Loop Check Performed:	Not Tested	Vaibhav Patel		Kone Kennedy	
Within Specification:	Yes	Date:	13-Apr-23	Date:	13-Apr-23



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Customer Name:	OCWA - Southhampton						
Plant Name and address:	815 Lehn St.ON						
Service Date:	14-Apr-23	Instrument Type:	AIT	W.O. Number:	220902-0002	Asset#:	NA
Due Date:	14-Oct-23	Manufacturer:	MSA				
Follow-Up Required:	No	Model:	MSA UltimaX				
As Left Status:	Initial Condt	Serial #:	C10-3361242-10-001				
Instrument Visual Inspection:		Range:	0-100% LEL	Output:	4-20 mA		
Mechanical Inspection:	OK	Tag Infomration:	NA				
Electrical Inspection:	OK	Description:	Monitoring Methane gas				
As found Display information:	OK	Process/Location Descrpition:	815 Lehn street upper level				

Instrument Information:	
<b>Sensor Type and unit:</b>	LEL, %
<b>Zero Gas Value:</b>	0
<b>Span Gas Value:</b>	50
<b>Gas Range Value:</b>	0-100
<b>Caution Level:</b>	NA
<b>Warning Level:</b>	10
<b>Alarm Level:</b>	20

Gas	Gas Value	As Found	Deviation	As Left	Deviation
Zero	0	0	0.00%	0	0.00%
Span	50	49	-2.00%	50	0.00%

Comments		Test Equipment Used			
		Name / Type		Serial and Due Date	
Calibrated successfully		CalGas Methane 2.5% Vol (50%)		304-402205618-1, Aug-2025	
		CalGas Oxygen 20.8% Vol		304-402190658-1, Aug-2025	
<b>Other Outputs Tested:</b>	Not tested	<b>Technician Name</b>		<b>Witness Name</b>	
<b>Loop Check Performed:</b>	Not Tested	Vaibhav Patel		Kone Kennedy	
<b>Within Specification:</b>	Yes	<b>Date:</b>	14-Apr-23	<b>Date:</b>	14-Apr-23



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Customer Name:	OCWA - Southhampton						
Plant Name and address:	815 Lehenen St.ON						
Service Date:	14-Apr-23	Instrument Type:	AIT	W.O. Number:	220902-0002	Asset#:	NA
Due Date:	14-Oct-23	Manufacturer:	MSA				
Follow-Up Required:	Yes	Model:	MSA UltimaX				
As Left Status:	Initial Cond	Serial #:	C10-3361242-20-001				
Instrument Visual Inspection:		Range:	0-50PPM	Output:	4-20 mA		
Mechanical Inspection:	OK	Tag Infomration:	NA				
Electrical Inspection:	OK	Description:	Monitoring H2S Gas				
As found Display information:	OK	Process/Location Descrption:	815 Lehenen St. Upper level				

Instrument Information:	
Sensor Type and unit:	H2S , PPM
Zero Gas Value:	0
Span Gas Value:	40
Gas Range Value:	0-50
Caution Level:	NA
Warning Level:	5
Alarm Level:	15

Gas	Gas Value	As Found	Deviation	As Left	Deviation
Zero	0	0	0.00%	0	0.00%
Span	40	6.90	-82.75%	NA	#VALUE!

Comments		Test Equipment Used			
		Name / Type		Serial and Due Date	
Sensor Failed calibration. Sensor cannot able to read past 7 PPM.		CalGas Oxygen 20.8% Vol		304-402190658-1, Aug-2025	
Area has higher concentratgion of H2S gas accumulated.		CalGas H2S 40 PPM		304-402184551-1, Aug-2023	
Recommended to use hendheld gas detectors while working in premise.					
Other Outputs Tested:	Not tested	Technician Name		Witness Name	
Loop Check Performed:	Not Tested	Vaibhav Patel		Kone Kennedy	
Within Specification:	No	Date:	14-Apr-23	Date:	14-Apr-23



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Customer Name:	OCWA - Southhampton						
Plant Name and address:	815 Lehenen St.ON						
Service Date:	14-Apr-23	Instrument Type:	AIT	W.O. Number:	220902-0002	Asset#:	NA
Due Date:	14-Oct-23	Manufacturer:	MSA				
Follow-Up Required:	No	Model:	MSA UltimaX				
As Left Status:	Initial Cond	Serial #:	C10-3361242-30-001				
Instrument Visual Inspection:		Range:	0-25% O2	Output:	4-20 mA		
Mechanical Inspection:	OK	Tag Infomration:	NA				
Electrical Inspection:	OK	Description:	Monitoring Oxygen Gas				
As found Display information:	OK	Process/Location Descrption:	815 Lehenen St. Upper level				

Instrument Information:	
Sensor Type and unit:	Oxygen, %
Zero Gas Value:	0
Span Gas Value:	20.80
Gas Range Value:	0-25
Caution Level:	NA
Warning Level:	19.5
Alarm Level:	18

Gas	Gas Value	As Found	Deviation	As Left	Deviation
Zero	0	0	0.00%	0	0.00%
Span	20.8	20.8	0.00%	20.8	0.00%

Comments		Test Equipment Used			
		Name / Type		Serial and Due Date	
Calibrated successfully		CalGas Oxygen 20.8% Vol		304-402190658-1, Aug-2025	
Other Outputs Tested:	Not tested	Technician Name		Witness Name	
Loop Check Performed:	Not Tested	Vaibhav Patel		Kone Kennedy	
Within Specification:	Yes	Date:	14-Apr-23	Date:	14-Apr-23



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Customer Name:	OCWA - Southhampton						
Plant Name and address:	815 Lehnen St.ON						
Service Date:	14-Apr-23	Instrument Type:	AIT	W.O. Number:	220902-0002	Asset#:	NA
Due Date:	14-Oct-23	Manufacturer:	MSA				
Follow-Up Required:	No	Model:	MSA UltimaX				
As Left Status:	Initial Condt	Serial #:	C10-3361242-10-002				
Instrument Visual Inspection:		Range:	0-100% LEL	Output:	4-20 mA		
Mechanical Inspection:	OK	Tag Infomration:	NA				
Electrical Inspection:	OK	Description:	Monitoring Methane gas				
As found Display information:	OK	Process/Location Descrpition:	815 Lehnen street ground level				

Instrument Information:	
<b>Sensor Type and unit:</b>	LEL, %
<b>Zero Gas Value:</b>	0
<b>Span Gas Value:</b>	50
<b>Gas Range Value:</b>	0-100
<b>Caution Level:</b>	NA
<b>Warning Level:</b>	10
<b>Alarm Level:</b>	20

Gas	Gas Value	As Found	Deviation	As Left	Deviation
Zero	0	0	0.00%	0	0.00%
Span	50	49	-2.00%	50	0.00%

Comments		Test Equipment Used			
		Name / Type		Serial and Due Date	
Calibrated successfully		CalGas Methane 2.5% Vol (50%)		304-402205618-1, Aug-2025	
		CalGas Oxygen 20.8% Vol		304-402190658-1, Aug-2025	
<b>Other Outputs Tested:</b>	Not tested	<b>Technician Name</b>		<b>Witness Name</b>	
<b>Loop Check Performed:</b>	Not Tested	Vaibhav Patel		Kone Kennedy	
<b>Within Specification:</b>	Yes	<b>Date:</b>	14-Apr-23	<b>Date:</b>	14-Apr-23



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Customer Name:	OCWA - Southhampton						
Plant Name and address:	815 Lehn St.ON						
Service Date:	14-Apr-23	Instrument Type:	AIT	W.O. Number:	220902-0002	Asset#:	NA
Due Date:	14-Oct-23	Manufacturer:	MSA				
Follow-Up Required:	No	Model:	MSA UltimaX				
As Left Status:	Initial Condt	Serial #:	C10-3361242-20-002				
Instrument Visual Inspection:		Range:	0-50PPM	Output:	4-20 mA		
Mechanical Inspection:	OK	Tag Infomration:	NA				
Electrical Inspection:	OK	Description:	Monitoring H2S Gas				
As found Display information:	OK	Process/Location Descrpition:	815 Lehn St. Ground level				

Instrument Information:	
Sensor Type and unit:	H2S , PPM
Zero Gas Value:	0
Span Gas Value:	40
Gas Range Value:	0-50
Caution Level:	NA
Warning Level:	5
Alarm Level:	15

Gas	Gas Value	As Found	Deviation	As Left	Deviation
Zero	0	0	5.00%	0	0.00%
Span	40	25	-37.50%	NA	#VALUE!

Comments		Test Equipment Used			
		Name / Type		Serial and Due Date	
		CalGas Oxygen 20.8% Vol		304-402190658-1, Aug-2025	
Area has higher concentratgion of H2S gas accumulated.		CalGas H2S 40 PPM		304-402184551-1, Aug-2023	
Recommended to use hendheld gas detectors while working in premise.					
Other Outputs Tested:	Not tested	Technician Name		Witness Name	
Loop Check Performed:	Not Tested	Vaibhav Patel		Kone Kennedy	
Within Specification:	No	Date:	14-Apr-23	Date:	14-Apr-23



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Customer Name:	OCWA - Southhampton						
Plant Name and address:	815 Lehn St.ON						
Service Date:	14-Apr-23	Instrument Type:	AIT	W.O. Number:	220902-0002	Asset#:	NA
Due Date:	14-Oct-23	Manufacturer:	MSA				
Follow-Up Required:	No	Model:	MSA UltimaX				
As Left Status:	Initial Condt	Serial #:	C10-3361242-30-001				
Instrument Visual Inspection:		Range:	0-25% O2	Output:	4-20 mA		
Mechanical Inspection:	OK	Tag Infomration:	NA				
Electrical Inspection:	OK	Description:	Monitoring Oxygen Gas				
As found Display information:	OK	Process/Location Descrption:	815 Lehn St. Ground level				

Instrument Information:	
Sensor Type and unit:	Oxygen, %
Zero Gas Value:	0
Span Gas Value:	20.8
Gas Range Value:	0-25
Caution Level:	NA
Warning Level:	18.5
Alarm Level:	18

Gas	Gas Value	As Found	Deviation	As Left	Deviation
Zero	0	0	0.00%	0	0.00%
Span	20.8	20.8	0.00%	20.8	0.00%

Comments		Test Equipment Used			
		Name / Type		Serial and Due Date	
Calibrated successfully		CalGas Oxygen 20.8% Vol		304-402190658-1, Aug-2025	
Other Outputs Tested:	Not tested	Technician Name		Witness Name	
Loop Check Performed:	Not Tested	Vaibhav Patel		Kone Kennedy	
Within Specification:	Yes	Date:	14-Apr-23	Date:	14-Apr-23



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Customer Name:	OCWA - Southhampton						
Plant Name and address:	815 Lehn St.ON						
Service Date:	14-Apr-23	Instrument Type:	AIT	W.O. Number:	220902-0002	Asset#:	NA
Due Date:	14-Oct-23	Manufacturer:	MSA -Amstrong Methane Gas				
Follow-Up Required:	No	Model:	1011				
As Left Status:	Initial Condt	Serial #:	1195021				
Instrument Visual Inspection:		Range:	0-100% LEL	Output:	4-20 mA		
Mechanical Inspection:	OK	Tag Infomration:	NA				
Electrical Inspection:	OK	Description:	Monitoring Methane gas				
As found Display information:	OK	Process/Location Descrpition:	815 Lehn street Main Entrance Admin Building				

Instrument Information:	
<b>Sensor Type and unit:</b>	LEL, %
<b>Zero Gas Value:</b>	0
<b>Span Gas Value:</b>	50
<b>Gas Range Value:</b>	0-100
<b>Caution Level:</b>	NA
<b>Warning Level:</b>	10
<b>Alarm Level:</b>	20

Gas	Gas Value	As Found	Deviation	As Left	Deviation
Zero	0	0	0.00%	0	0.00%
Span	50	50	0.00%	50	0.00%

Comments		Test Equipment Used			
		Name / Type		Serial and Due Date	
Calibrated successfully		CalGas Methane 2.5% Vol (50%)		304-402205618-1, Aug-2025	
		CalGas Oxygen 20.8% Vol		304-402190658-1, Aug-2025	
<b>Other Outputs Tested:</b>	Not tested	<b>Technician Name</b>		<b>Witness Name</b>	
<b>Loop Check Performed:</b>	Not Tested	Vaibhav Patel		Kone Kennedy	
<b>Within Specification:</b>	Yes	<b>Date:</b>	14-Apr-23	<b>Date:</b>	14-Apr-23





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Customer Name:	OCWA - Southhampton						
Plant Name and address:	815 Lehn St.ON						
Service Date:	14-Apr-23	Instrument Type:	AIT	W.O. Number:	220902-0002	Asset#:	NA
Due Date:	14-Oct-23	Manufacturer:	MSA -Amstrong Methane Gas				
Follow-Up Required:	No	Model:	1011				
As Left Status:	Initial Condt	Serial #:	1195020				
Instrument Visual Inspection:		Range:	0-100% LEL	Output:	4-20 mA		
Mechanical Inspection:	OK	Tag Infomration:	NA				
Electrical Inspection:	OK	Description:	Monitoring Methane gas				
As found Display information:	OK	Process/Location Descrpition:	815 Lehn street Digester Building				

Instrument Information:	
Sensor Type and unit:	LEL, %
Zero Gas Value:	0
Span Gas Value:	50
Gas Range Value:	0-100
Caution Level:	NA
Warning Level:	10
Alarm Level:	20

Gas	Gas Value	As Found	Deviation	As Left	Deviation
Zero	0	0	0.00%	0	0.00%
Span	50	45	-10.00%	50	0.00%

Comments		Test Equipment Used			
		Name / Type		Serial and Due Date	
Calibrated successfully		CalGas Methane 2.5% Vol (50%)		304-402205618-1, Aug-2025	
		CalGas Oxygen 20.8% Vol		304-402190658-1, Aug-2025	
Other Outputs Tested:	Not tested	Technician Name		Witness Name	
Loop Check Performed:	Not Tested	Vaibhav Patel		Kone Kennedy	
Within Specification:	Yes	Date:	14-Apr-23	Date:	14-Apr-23



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Customer Name:	OCWA - Southhampton						
Plant Name and address:	815 Lehn St.ON						
Service Date:	14-Apr-23	Instrument Type:	AIT	W.O. Number:	220902-0002	Asset#:	NA
Due Date:	14-Oct-23	Manufacturer:	MSA -Amstrong Methane Gas				
Follow-Up Required:	No	Model:	1011				
As Left Status:	Initial Condt	Serial #:	1195022				
Instrument Visual Inspection:		Range:	0-100% LEL	Output:	4-20 mA		
Mechanical Inspection:	OK	Tag Infomration:	NA				
Electrical Inspection:	OK	Description:	Monitoring Methane gas				
As found Display information:	OK	Process/Location Descrption:	815 Lehn street RAS Building				

Instrument Information:	
<b>Sensor Type and unit:</b>	LEL, %
<b>Zero Gas Value:</b>	0
<b>Span Gas Value:</b>	50
<b>Gas Range Value:</b>	0-100
<b>Caution Level:</b>	NA
<b>Warning Level:</b>	10
<b>Alarm Level:</b>	20

Gas	Gas Value	As Found	Deviation	As Left	Deviation
Zero	0	10	0.00%	0	0.00%
Span	50	50	0.00%	50	0.00%

Comments		Test Equipment Used			
		Name / Type		Serial and Due Date	
Calibrated successfully		CalGas Methane 2.5% Vol (50%)		304-402205618-1, Aug-2025	
		CalGas Oxygen 20.8% Vol		304-402190658-1, Aug-2025	
<b>Other Outputs Tested:</b>	Not tested	<b>Technician Name</b>		<b>Witness Name</b>	
<b>Loop Check Performed:</b>	Not Tested	Vaibhav Patel		Kone Kennedy	
<b>Within Specification:</b>	Yes	<b>Date:</b>	14-Apr-23	<b>Date:</b>	14-Apr-23



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Customer Name:	OCWA - Southhampton						
Plant Name and address:	815 Lehnst st, Port Elgin						
Service Date:	13-Apr-22	Instrument Type:	AIT	W.O. Number:	220902-0002	Asset#:	NA
Due Date:	13-Oct-22	Manufacturer:	MSA				
Follow-Up Required:	No	Model:	ALTAIR 4X				
As Left Status:	Initial Cond	Serial #:	167875				
Instrument Visual Inspection:		Range:	0-100%,0-100PPM,0-50PPM,0-25%		Output:	NA	
Mechanical Inspection:	OK	Tag Infomration:	NA				
Electrical Inspection:	OK	Description:	MSA ALTAIR 4X Handheld gas				
As found Display information:	OK	Process/Location Descrpition:	Operator room				

Instrument Information:								
Sensor No.:	Sensor Type	Unit	Zero Gas Value	Span Gas Value	Range Gas Value	Caution Setpoint	Warning Setpoint	Alarm Setpoint
1	LEL	%	0	50	100	NA	10.00	10.00
2	CO	PPM	0	100	100	NA	10.00	20.00
3	H2S	PPM	0	25	50	NA	5.00	15.00
4	O2	%	0	18.0	25	NA	19.50	18.00

Sensor No.:	Gas	Gas Value	As Found	Deviation	As Left	Deviation
Sensor 1	Zero	0	0	0.00%	0	0.00%
	Span	50	87	74.00%	50	0.00%
Sensor 2	Zero	0	0	0.00%	0	0.00%
	Span	100	98	-2.00%	100	0.00%
Sensor 3	Zero	0	0	0.00%	0	0.00%
	Span	25	27	8.00%	25	0.00%
Sensor 4	Zero	0	0	0.00%	0	0.00%
	Span	18.0	18	0.00%	18	0.00%

Comments		Test Equipment Used			
		Name / Type		Serial and Due Date	
Calibrated Successfully		MSA Quadgas		304-402541925-1 ; Sept-2026	
		(100 PPM CO, 25 PPM H2S, 50 %LEL, 18% O2)			
Other Outputs Tested:		Not tested		Technician Name	
Loop Check Performed:		Not tested		Witness Name	
Within Specification:		Yes		Vaibhav Patel	
		Date:	13-Apr-22	Date:	13-Apr-22



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Customer Name:	OCWA - Southhampton						
Plant Name and address:	815 Lehnem st, Port Elgin						
Service Date:	13-Apr-22	Instrument Type:	AIT	W.O. Number:	220902-0002	Asset#:	NA
Due Date:	13-Oct-22	Manufacturer:	MSA				
Follow-Up Required:	No	Model:	ALTAIR 4X				
As Left Status:	Initial Condt	Serial #:	356331				
Instrument Visual Inspection:		Range:	0-100%,0-100PPM,0-50PPM,0-25%		Output:	NA	
Mechanical Inspection:	OK	Tag Infomration:	NA				
Electrical Inspection:	OK	Description:	MSA ALTAIR 4X Handheld gas				
As found Display information:	OK	Process/Location Descrpition:	Operator room				

Instrument Information:								
Sensor No.:	Sensor Type	Unit	Zero Gas Value	Span Gas Value	Range Gas Value	Caution Setpoint	Warning Setpoint	Alarm Setpoint
1	LEL	%	0	50	100	10.00	10.00	
2	CO	PPM	0	100	100	10.00	20.00	
3	H2S	PPM	0	25	50	5.00	15.00	
4	O2	%	0	18.0	25	19.50	18.00	

Sensor No.:	Gas	Gas Value	As Found	Deviation	As Left	Deviation
Sensor 1	Zero	0	0	0.00%	0	0.00%
	Span	50	92	84.00%	50	0.00%
Sensor 2	Zero	0	0	0.00%	0	0.00%
	Span	100	100	0.00%	100	0.00%
Sensor 3	Zero	0	0	0.00%	0	0.00%
	Span	25	24	-4.00%	25	0.00%
Sensor 4	Zero	0	0	0.00%	0	0.00%
	Span	18.0	18	0.00%	18	0.00%

Comments		Test Equipment Used			
		Name / Type		Serial and Due Date	
Calibrated Successfully		MSA Quadgas		304-402541925-1 ; Sept-2026	
		(100 PPM CO, 25 PPM H2S, 50 %LEL, 18% O2)			
Other Outputs Tested:		Not tested		Technician Name	
Loop Check Performed:		Not tested		Witness Name	
Within Specification:		Yes		Vaibhav Patel	
		Date:	13-Apr-22	Date:	13-Apr-22



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**Web Site:** [www.spdsales.com](http://www.spdsales.com)

Customer Name:	OCWA - Southhampton						
Plant Name and address:	345 10th Concession Rd 10, Port Elgin, ON						
Service Date:	17-Oct-23	Instrument Type:	AIT	W.O. Number:	230882-0001	Asset#:	NA
Due Date:	17-Apr-24	Manufacturer:	MSA				
Follow-Up Required:	No	Model:	MSA UltimaX				
As Left Status:	Initial Condt	Serial #:	H09-3188968-10-001				
Instrument Visual Inspection:		Range:	0-100% LEL	Output:	4-20 mA		
Mechanical Inspection:	OK	Tag Infomration:	NA				
Electrical Inspection:	OK	Description:	Monitoring LEL Gas				
As found Display information:	OK	Process/Location Descrption:	345 10th Concess pumping station				

Instrument Information:	
<b>Sensor Type and unit:</b>	LEL, %
<b>Zero Gas Value:</b>	0
<b>Span Gas Value:</b>	50
<b>Gas Range Value:</b>	0-100
<b>Caution Level:</b>	NA
<b>Warning Level:</b>	10
<b>Alarm Level:</b>	20

Gas	Gas Value	As Found	Deviation	As Left	Deviation
Zero	0	0	0.00%	0	0.00%
Span	50	54	8.00%	50	0.00%

Comments		Test Equipment Used			
		Name / Type		Serial and Due Date	
Calibrated successfully		CalGas Methane 2.5% Vol (50%)		304-402205618-1, Aug-2025	
		CalGas Oxygen 20.8% Vol		304-402190658-1, Aug-2025	
<b>Other Outputs Tested:</b>	Not tested	<b>Technician Name</b>		<b>Witness Name</b>	
<b>Loop Check Performed:</b>	Not Tested	Vaibhav Patel		Steve	
<b>Within Specification:</b>	Yes	<b>Date:</b>	17-Oct-23	<b>Date:</b>	17-Oct-23



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Customer Name:	OCWA - Southhampton						
Plant Name and address:	345 10th Concession Rd 10, Port Elgin, ON						
Service Date:	17-Oct-23	Instrument Type:	AIT	W.O. Number:	230882-0001	Asset#:	NA
Due Date:	17-Apr-24	Manufacturer:	MSA				
Follow-Up Required:	Yes	Model:	MSA UltimaX				
As Left Status:	Initial Condt	Serial #:	H09-3188968-20-001				
Instrument Visual Inspection:		Range:	0-50PPM	Output:	4-20 mA		
Mechanical Inspection:	OK	Tag Infomration:	NA				
Electrical Inspection:	OK	Description:	Monitoring H2S Gas				
As found Display information:	OK	Process/Location Descrption:	345 10th concess pumping station				

Instrument Information:	
Sensor Type and unit:	H2S , PPM
Zero Gas Value:	0
Span Gas Value:	40
Gas Range Value:	0-50
Caution Level:	NA
Warning Level:	5
Alarm Level:	15

Gas	Gas Value	As Found	Deviation	As Left	Deviation
Zero	0	NA	0.00%	NA	0.00%
Span	40	NA	#VALUE!	NA	#VALUE!

Comments		Test Equipment Used			
		Name / Type		Serial and Due Date	
Sensor Failed.		CalGas Oxygen 20.8% Vol		304-402190658-1, Aug-2025	
Need to replace sensor.		CalGas H2S 40 PPM		304-402184551-1, Aug-2024	
Other Outputs Tested:	Not tested	Technician Name		Witness Name	
Loop Check Performed:	Not Tested	Vaibhav Patel		Steve	
Within Specification:	No	Date:	17-Oct-23	Date:	17-Oct-23



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Customer Name:	OCWA - Southhampton						
Plant Name and address:	345 10th Concession Rd 10, Port Elgin, ON						
Service Date:	17-Oct-23	Instrument Type:	AIT	W.O. Number:	230882-0001	Asset#:	NA
Due Date:	17-Apr-24	Manufacturer:	MSA				
Follow-Up Required:	Yes	Model:	MSA UltimaX				
As Left Status:	Initial Condt	Serial #:	H09-3188968-20-001				
Instrument Visual Inspection:		Range:	0-25% O2	Output:	4-20 mA		
Mechanical Inspection:	OK	Tag Infomration:	NA				
Electrical Inspection:	OK	Description:	Monitoring Oxygen Gas				
As found Display information:	OK	Process/Location Descrption:	345 10th concess pumping station				

Instrument Information:	
<b>Sensor Type and unit:</b>	Oxygen, %
<b>Zero Gas Value:</b>	0
<b>Span Gas Value:</b>	20.80
<b>Gas Range Value:</b>	0-25
<b>Caution Level:</b>	NA
<b>Warning Level:</b>	19.5
<b>Alarm Level:</b>	18

Gas	Gas Value	As Found	Deviation	As Left	Deviation
Zero	0	NA	0.00%	NA	0.00%
Span	20.8	NA	#VALUE!	NA	#VALUE!

Comments		Test Equipment Used			
		Name / Type		Serial and Due Date	
Need to replace sensor.		CalGas Oxygen 20.8% Vol		304-402190658-1, Aug-2025	
Calibrated the sensor but The Value kept falling					
<b>Other Outputs Tested:</b>	Not tested	<b>Technician Name</b>		<b>Witness Name</b>	
<b>Loop Check Performed:</b>	Not Tested	Vaibhav Patel		Steve	
<b>Within Specification:</b>	No	<b>Date:</b>	17-Oct-23	<b>Date:</b>	17-Oct-23



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Customer Name:	OCWA - Southhampton						
Plant Name and address:	815 Lehn St.ON						
Service Date:	17-Oct-23	Instrument Type:	AIT	W.O. Number:	230882-0001	Asset#:	NA
Due Date:	17-Apr-24	Manufacturer:	MSA				
Follow-Up Required:	No	Model:	MSA UltimaX				
As Left Status:	Initial Condt	Serial #:	C10-3361242-10-001				
Instrument Visual Inspection:		Range:	0-100% LEL	Output:	4-20 mA		
Mechanical Inspection:	OK	Tag Infomration:	NA				
Electrical Inspection:	OK	Description:	Monitoring Methane gas				
As found Display information:	OK	Process/Location Descrpition:	815 Lehn street upper level				

Instrument Information:	
<b>Sensor Type and unit:</b>	LEL, %
<b>Zero Gas Value:</b>	0
<b>Span Gas Value:</b>	50
<b>Gas Range Value:</b>	0-100
<b>Caution Level:</b>	NA
<b>Warning Level:</b>	10
<b>Alarm Level:</b>	20

Gas	Gas Value	As Found	Deviation	As Left	Deviation
Zero	0	0	0.00%	0	0.00%
Span	50	52	4.00%	50	0.00%

Comments		Test Equipment Used			
		Name / Type		Serial and Due Date	
Calibrated successfully		CalGas Methane 2.5% Vol (50%)		304-402205618-1, Aug-2025	
		CalGas Oxygen 20.8% Vol		304-402190658-1, Aug-2025	
<b>Other Outputs Tested:</b>	Not tested	<b>Technician Name</b>		<b>Witness Name</b>	
<b>Loop Check Performed:</b>	Not Tested	Vaibhav Patel		Steve	
<b>Within Specification:</b>	Yes	<b>Date:</b>	17-Oct-23	<b>Date:</b>	17-Oct-23





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Customer Name:	OCWA - Southhampton						
Plant Name and address:	815 Lehenen St.ON						
Service Date:	17-Oct-23	Instrument Type:	AIT	W.O. Number:	230882-0001	Asset#:	NA
Due Date:	17-Apr-24	Manufacturer:	MSA				
Follow-Up Required:	No	Model:	MSA UltimaX				
As Left Status:	Initial Condt	Serial #:	C10-3361242-20-001				
Instrument Visual Inspection:		Range:	0-50PPM	Output:	4-20 mA		
Mechanical Inspection:	OK	Tag Infomration:	NA				
Electrical Inspection:	OK	Description:	Monitoring H2S Gas				
As found Display information:	OK	Process/Location Descrption:	815 Lehenen St. Upper level				

Instrument Information:	
Sensor Type and unit:	H2S , PPM
Zero Gas Value:	0
Span Gas Value:	40
Gas Range Value:	0-50
Caution Level:	NA
Warning Level:	5
Alarm Level:	15

Gas	Gas Value	As Found	Deviation	As Left	Deviation
Zero	0	0	0.00%	0	0.00%
Span	40	13.00	-67.50%	40	0.00%

Comments		Test Equipment Used			
		Name / Type		Serial and Due Date	
Sensor was reading too low. Need to keep an eye on it.		CalGas Oxygen 20.8% Vol		304-402190658-1, Aug-2025	
Area has higher concentratgion of H2S gas accumulated.		CalGas H2S 40 PPM		304-402184551-1, Aug-2024	
Recommended to use hendheld gas detectors while working in premise.					
Other Outputs Tested:	Not tested	Technician Name		Witness Name	
Loop Check Performed:	Not Tested	Vaibhav Patel		Steve	
Within Specification:	No	Date:	17-Oct-23	Date:	17-Oct-23



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Customer Name:	OCWA - Southhampton						
Plant Name and address:	815 Lehenen St.ON						
Service Date:	17-Oct-23	Instrument Type:	AIT	W.O. Number:	230882-0001	Asset#:	NA
Due Date:	17-Apr-24	Manufacturer:	MSA				
Follow-Up Required:	No	Model:	MSA UltimaX				
As Left Status:	Initial Condt	Serial #:	C10-3361242-30-001				
Instrument Visual Inspection:		Range:	0-25% O2	Output:	4-20 mA		
Mechanical Inspection:	OK	Tag Infomration:	NA				
Electrical Inspection:	OK	Description:	Monitoring Oxygen Gas				
As found Display information:	OK	Process/Location Descrption:	815 Lehenen St. Upper level				

Instrument Information:	
Sensor Type and unit:	Oxygen, %
Zero Gas Value:	0
Span Gas Value:	20.80
Gas Range Value:	0-25
Caution Level:	NA
Warning Level:	19.5
Alarm Level:	18

Gas	Gas Value	As Found	Deviation	As Left	Deviation
Zero	0	0	0.00%	0	0.00%
Span	20.8	20.6	-0.96%	20.8	0.00%

Comments		Test Equipment Used			
		Name / Type		Serial and Due Date	
Calibrated successfully		CalGas Oxygen 20.8% Vol		304-402190658-1, Aug-2025	
Other Outputs Tested:	Not tested	Technician Name		Witness Name	
Loop Check Performed:	Not Tested	Vaibhav Patel		Steve	
Within Specification:	Yes	Date:	17-Oct-23	Date:	17-Oct-23



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Customer Name:	OCWA - Southhampton						
Plant Name and address:	815 Lehn St.ON						
Service Date:	17-Oct-23	Instrument Type:	AIT	W.O. Number:	230882-0001	Asset#:	NA
Due Date:	17-Apr-24	Manufacturer:	MSA				
Follow-Up Required:	No	Model:	MSA UltimaX				
As Left Status:	Initial Condt	Serial #:	C10-3361242-10-002				
Instrument Visual Inspection:		Range:	0-100% LEL	Output:	4-20 mA		
Mechanical Inspection:	OK	Tag Infomration:	NA				
Electrical Inspection:	OK	Description:	Monitoring Methane gas				
As found Display information:	OK	Process/Location Descrpition:	815 Lehn street ground level				

Instrument Information:	
<b>Sensor Type and unit:</b>	LEL, %
<b>Zero Gas Value:</b>	0
<b>Span Gas Value:</b>	50
<b>Gas Range Value:</b>	0-100
<b>Caution Level:</b>	NA
<b>Warning Level:</b>	10
<b>Alarm Level:</b>	20

Gas	Gas Value	As Found	Deviation	As Left	Deviation
Zero	0	0	0.00%	0	0.00%
Span	50	54	8.00%	50	0.00%

Comments		Test Equipment Used			
		Name / Type		Serial and Due Date	
Calibrated successfully		CalGas Methane 2.5% Vol (50%)		304-402205618-1, Aug-2025	
		CalGas Oxygen 20.8% Vol		304-402190658-1, Aug-2025	
<b>Other Outputs Tested:</b>	Not tested	<b>Technician Name</b>		<b>Witness Name</b>	
<b>Loop Check Performed:</b>	Not Tested	Vaibhav Patel		Steve	
<b>Within Specification:</b>	Yes	<b>Date:</b>	17-Oct-23	<b>Date:</b>	17-Oct-23



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Web Site: [www.spdsales.com](http://www.spdsales.com)

Customer Name:	OCWA - Southhampton						
Plant Name and address:	815 Lehen St.ON						
Service Date:	17-Oct-23	Instrument Type:	AIT	W.O. Number:	230882-0001	Asset#:	NA
Due Date:	17-Apr-24	Manufacturer:	MSA				
Follow-Up Required:	No	Model:	MSA UltimaX				
As Left Status:	Initial Condt	Serial #:	C10-3361242-20-002				
Instrument Visual Inspection:		Range:	0-50PPM	Output:	4-20 mA		
Mechanical Inspection:	OK	Tag Infomration:	NA				
Electrical Inspection:	OK	Description:	Monitoring H2S Gas				
As found Display information:	OK	Process/Location Descrpition:	815 Lehen St. Ground level				

Instrument Information:	
Sensor Type and unit:	H2S , PPM
Zero Gas Value:	0
Span Gas Value:	40
Gas Range Value:	0-50
Caution Level:	NA
Warning Level:	5
Alarm Level:	15

Gas	Gas Value	As Found	Deviation	As Left	Deviation
Zero	0	0	5.00%	0	0.00%
Span	40	17	-57.50%	40	0.00%

Comments		Test Equipment Used			
		Name / Type		Serial and Due Date	
Sensor was reading too low. Need to keep an eye on it.		CalGas Oxygen 20.8% Vol		304-402190658-1, Aug-2025	
Area has higher concentratgion of H2S gas accumulated.		CalGas H2S 40 PPM		304-402184551-1, Aug-2024	
Recommended to use hendheld gas detectors while working in premise.					
Other Outputs Tested:	Not tested	Technician Name		Witness Name	
Loop Check Performed:	Not Tested	Vaibhav Patel		Steve	
Within Specification:	No	Date:	17-Oct-23	Date:	17-Oct-23



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Customer Name:	OCWA - Southhampton						
Plant Name and address:	815 Lehn St.ON						
Service Date:	17-Oct-23	Instrument Type:	AIT	W.O. Number:	230882-0001	Asset#:	NA
Due Date:	17-Apr-24	Manufacturer:	MSA				
Follow-Up Required:	Yes	Model:	MSA UltimaX				
As Left Status:	Initial Condt	Serial #:	C10-3361242-30-001				
Instrument Visual Inspection:		Range:	0-25% O2	Output:	4-20 mA		
Mechanical Inspection:	OK	Tag Infomration:	NA				
Electrical Inspection:	OK	Description:	Monitoring Oxygen Gas				
As found Display information:	OK	Process/Location Descrption:	815 Lehn St. Ground level				

Instrument Information:	
Sensor Type and unit:	Oxygen, %
Zero Gas Value:	0
Span Gas Value:	20.8
Gas Range Value:	0-25
Caution Level:	NA
Warning Level:	18.5
Alarm Level:	18

Gas	Gas Value	As Found	Deviation	As Left	Deviation
Zero	0	0	0.00%	0	0.00%
Span	20.8	20.8	0.00%	20.8	0.00%

Comments		Test Equipment Used			
		Name / Type		Serial and Due Date	
Sensor failed.		CalGas Oxygen 20.8% Vol		304-402190658-1, Aug-2025	
Value was not stable and was falling into Alarm.					
Other Outputs Tested:	Not tested	Technician Name		Witness Name	
Loop Check Performed:	Not Tested	Vaibhav Patel		Steve	
Within Specification:	No	Date:	17-Oct-23	Date:	17-Oct-23



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**Web Site:** [www.spdsales.com](http://www.spdsales.com)

Customer Name:	OCWA - Southhampton						
Plant Name and address:	815 Lehnen St.ON						
Service Date:	17-Oct-23	Instrument Type:	AIT	W.O. Number:	230882-0001	Asset#:	NA
Due Date:	17-Apr-24	Manufacturer:	MSA -Amstrong Methane Gas				
Follow-Up Required:	No	Model:	1011				
As Left Status:	Initial Condt	Serial #:	1195021				
Instrument Visual Inspection:		Range:	0-100% LEL	Output:	4-20 mA		
Mechanical Inspection:	OK	Tag Infomration:	NA				
Electrical Inspection:	OK	Description:	Monitoring Methane gas				
As found Display information:	OK	Process/Location Descrpition:	815 Lehnen street Main Entrance Admin Building				

Instrument Information:	
<b>Sensor Type and unit:</b>	LEL, %
<b>Zero Gas Value:</b>	0
<b>Span Gas Value:</b>	50
<b>Gas Range Value:</b>	0-100
<b>Caution Level:</b>	NA
<b>Warning Level:</b>	10
<b>Alarm Level:</b>	20

Gas	Gas Value	As Found	Deviation	As Left	Deviation
Zero	0	0	0.00%	0	0.00%
Span	50	60	20.00%	50	0.00%

Comments		Test Equipment Used			
		Name / Type		Serial and Due Date	
Calibrated successfully		CalGas Methane 2.5% Vol (50%)		304-402205618-1, Aug-2025	
		CalGas Oxygen 20.8% Vol		304-402190658-1, Aug-2025	
<b>Other Outputs Tested:</b>	Not tested	<b>Technician Name</b>		<b>Witness Name</b>	
<b>Loop Check Performed:</b>	Not Tested	Vaibhav Patel		Steve	
<b>Within Specification:</b>	Yes	<b>Date:</b>	17-Oct-23	<b>Date:</b>	17-Oct-23



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Customer Name:	OCWA - Southhampton						
Plant Name and address:	815 Lehnen St.ON						
Service Date:	17-Oct-23	Instrument Type:	AIT	W.O. Number:	230882-0001	Asset#:	NA
Due Date:	17-Apr-24	Manufacturer:	MSA -Amstrong Methane Gas				
Follow-Up Required:	No	Model:	1011				
As Left Status:	Initial Condt	Serial #:	1195020				
Instrument Visual Inspection:		Range:	0-100% LEL	Output:	4-20 mA		
Mechanical Inspection:	OK	Tag Infomration:	NA				
Electrical Inspection:	OK	Description:	Monitoring Methane gas				
As found Display information:	OK	Process/Location Descrpition:	815 Lehnen street Digester Building				

Instrument Information:	
<b>Sensor Type and unit:</b>	LEL, %
<b>Zero Gas Value:</b>	0
<b>Span Gas Value:</b>	50
<b>Gas Range Value:</b>	0-100
<b>Caution Level:</b>	NA
<b>Warning Level:</b>	10
<b>Alarm Level:</b>	20

Gas	Gas Value	As Found	Deviation	As Left	Deviation
Zero	0	0	0.00%	0	0.00%
Span	50	63	26.00%	50	0.00%

Comments		Test Equipment Used			
		Name / Type		Serial and Due Date	
Calibrated successfully		CalGas Methane 2.5% Vol (50%)		304-402205618-1, Aug-2025	
		CalGas Oxygen 20.8% Vol		304-402190658-1, Aug-2025	
<b>Other Outputs Tested:</b>	Not tested	<b>Technician Name</b>		<b>Witness Name</b>	
<b>Loop Check Performed:</b>	Not Tested	Vaibhav Patel		Steve	
<b>Within Specification:</b>	Yes	<b>Date:</b>	17-Oct-23	<b>Date:</b>	17-Oct-23



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Customer Name:	OCWA - Southhampton						
Plant Name and address:	815 Lehn St.ON						
Service Date:	17-Oct-23	Instrument Type:	AIT	W.O. Number:	230882-0001	Asset#:	NA
Due Date:	17-Apr-24	Manufacturer:	MSA -Amstrong Methane Gas				
Follow-Up Required:	No	Model:	1011				
As Left Status:	Initial Condt	Serial #:	1195022				
Instrument Visual Inspection:		Range:	0-100% LEL	Output:	4-20 mA		
Mechanical Inspection:	OK	Tag Infomration:	NA				
Electrical Inspection:	OK	Description:	Monitoring Methane gas				
As found Display information:	OK	Process/Location Descrpition:	815 Lehn street RAS Building				

Instrument Information:	
<b>Sensor Type and unit:</b>	LEL, %
<b>Zero Gas Value:</b>	0
<b>Span Gas Value:</b>	50
<b>Gas Range Value:</b>	0-100
<b>Caution Level:</b>	NA
<b>Warning Level:</b>	10
<b>Alarm Level:</b>	20

Gas	Gas Value	As Found	Deviation	As Left	Deviation
Zero	0	10	0.00%	0	0.00%
Span	50	50	0.00%	50	0.00%

Comments		Test Equipment Used			
		Name / Type		Serial and Due Date	
Calibrated successfully		CalGas Methane 2.5% Vol (50%)		304-402205618-1, Aug-2025	
		CalGas Oxygen 20.8% Vol		304-402190658-1, Aug-2025	
<b>Other Outputs Tested:</b>	Not tested	<b>Technician Name</b>		<b>Witness Name</b>	
<b>Loop Check Performed:</b>	Not Tested	Vaibhav Patel		Steve	
<b>Within Specification:</b>	Yes	<b>Date:</b>	17-Oct-23	<b>Date:</b>	17-Oct-23





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Web Site: [www.spdsales.com](http://www.spdsales.com)

Customer Name:	OCWA - Southhampton						
Plant Name and address:	815 Lehnst st, Port Elgin						
Service Date:	17-Oct-23	Instrument Type:	AIT	W.O. Number:	230882-0001	Asset#:	NA
Due Date:	17-Apr-24	Manufacturer:	MSA				
Follow-Up Required:	Yes	Model:	ALTAIR 4X				
As Left Status:	Initial Cond	Serial #:	167875				
Instrument Visual Inspection:		Range:	0-100%,0-100PPM,0-50PPM,0-25%		Output:	NA	
Mechanical Inspection:	OK	Tag Infomration:	NA				
Electrical Inspection:	OK	Description:	MSA ALTAIR 4X Handheld gas				
As found Display information:	OK	Process/Location Description:	Operator room				

Instrument Information:								
Sensor No.:	Sensor Type	Unit	Zero Gas Value	Span Gas Value	Range Gas Value	Caution Setpoint	Warning Setpoint	Alarm Setpoint
1	LEL	%	0	50	100	NA	10.00	10.00
2	CO	PPM	0	100	100	NA	10.00	20.00
3	H2S	PPM	0	25	50	NA	5.00	15.00
4	O2	%	0	18.0	25	NA	19.50	18.00

Sensor No.:	Gas	Gas Value	As Found	Deviation	As Left	Deviation
Sensor 1	Zero	0	-	0.00%	-	0.00%
	Span	50	-	#VALUE!	-	#VALUE!
Sensor 2	Zero	0	-	0.00%	-	0.00%
	Span	100	-	#VALUE!	-	#VALUE!
Sensor 3	Zero	0	-	0.00%	-	0.00%
	Span	25	-	#VALUE!	-	0.00%
Sensor 4	Zero	0	-	0.00%	-	0.00%
	Span	18.0	-	#VALUE!	-	#VALUE!

Comments		Test Equipment Used			
		Name / Type		Serial and Due Date	
Oxygen Sensor Failed.		MSA Quadgas		304-402541925-1 ; Sept-2026	
Need to replace Oxygen sensor.		(100 PPM CO, 25 PPM H2S, 50 %LEL, 18% O2)			
Other Outputs Tested:		Not tested		Technician Name	
Loop Check Performed:		Not tested		Witness Name	
Within Specification:		No		Steve	
		Date:	17-Oct-23	Date:	17-Oct-23



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Customer Name:	OCWA - Southhampton						
Plant Name and address:	815 Lehnst st, Port Elgin						
Service Date:	17-Oct-23	Instrument Type:	AIT	W.O. Number:	230882-0001	Asset#:	NA
Due Date:	17-Apr-24	Manufacturer:	MSA				
Follow-Up Required:	No	Model:	ALTAIR 4X				
As Left Status:	Initial Cond	Serial #:	356331				
Instrument Visual Inspection:		Range:	0-100%,0-100PPM,0-50PPM,0-25%		Output:	NA	
Mechanical Inspection:	OK	Tag Infomration:	NA				
Electrical Inspection:	OK	Description:	MSA ALTAIR 4X Handheld gas				
As found Display information:	OK	Process/Location Descrpition:	Operator room				

Instrument Information:								
Sensor No.:	Sensor Type	Unit	Zero Gas Value	Span Gas Value	Range Gas Value	Caution Setpoint	Warning Setpoint	Alarm Setpoint
1	LEL	%	0	50	100	10.00	10.00	
2	CO	PPM	0	100	100	10.00	20.00	
3	H2S	PPM	0	25	50	5.00	15.00	
4	O2	%	0	18.0	25	19.50	18.00	

Sensor No.:	Gas	Gas Value	As Found	Deviation	As Left	Deviation
Sensor 1	Zero	0	0	0.00%	0	0.00%
	Span	50	69	38.00%	50	0.00%
Sensor 2	Zero	0	0	0.00%	0	0.00%
	Span	100	101	1.00%	100	0.00%
Sensor 3	Zero	0	0	0.00%	0	0.00%
	Span	25	25	0.00%	25	0.00%
Sensor 4	Zero	0	0	0.00%	0	0.00%
	Span	18.0	18.4	2.22%	18	0.00%

Comments		Test Equipment Used			
		Name / Type		Serial and Due Date	
Calibrated Successfully		MSA Quadgas		304-402541925-1 ; Sept-2026	
		(100 PPM CO, 25 PPM H2S, 50 %LEL, 18% O2)			
Other Outputs Tested:		Not tested		Technician Name	
Loop Check Performed:		Not tested		Witness Name	
Within Specification:		Yes		Steve	
		Date:	17-Oct-23	Date:	17-Oct-23

## **Appendix C**

### Sludge Quality Sample Analysis

Waterworks/Project # **120001470** C of C LIMS No: **NAW-129649 P2**

Facility Name **PORT ELGIN WPCP** Laboratory Section **NAW 19-2023 P2** Sample condition upon receipt \_\_\_\_\_

Org. # **5069** Date Rec'd: **MAY 19 2023** Time Rec'd: \_\_\_\_\_ Initials \_\_\_\_\_

Quote # \_\_\_\_\_ Attached Parameter List ☐ No ☒ Yes Temperature Upon Receipt **12X3** °C

Identification of Regulation under which the sample(s) fall: No Requirement to Report Sample Results Under Any Regulation for Wastewater Treatment

Requested Turnaround Time: ☐ 24-48 h ☒ 5-7d ☐ 7-10d ☐ Other Specify: \_\_\_\_\_

Report to: Process & Compliance Technician (PCT) Invoice To: Ontario Clean Water Agency Laboratory: SGS Lakefield / London Research Ltd

Address: 18 Caroline Street 18 Caroline Street Southamptn, ON N0H 2L0 Southamptn, ON N0H 2L0

Telephone: 519-374-5782 519-374-5782 519-652-2000 / 519-672-4500

Fax: 519-797-3080 519-797-3080 519-652-6365 / 519-672-0361

Email: kyounq@ocwa.com kyounq@ocwa.com carlie.greenlaw@sgs.com / angela.slat@sgs.com

Sample				# of Bottles	Parameters													Comments	Upload to MOE	Upload to OCWA
Station Acronym	Station Number (Short Name)	Sample Location Name	Date & Time Collected		TS	TS ASH	TS LOI	TKN	E.Coli	NH3 + NH4	Nitrite	Nitrate	Nitrite + Nitrate	TP	pH	Metals**				
BSLQ	BSLQ -	Sludge Quality Hauled Sludge	✓ May 18, 2023 1330	2	X	X	X	X		X	X	X	X	X	X	X		Site ID # 23706	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
BSLQ	BSLQ -	Sludge Quality Hauled Sludge	May 18, 2023	1					X	X								as per bottle recovered. VFA-	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
																			Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
																			Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
																			Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
																			Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
																			Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
																			Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>

Sampler Name: **Steve Elliott** Sampler Signature: **Steve Elliott**

\* Station Acronym: Cell - Cell Contents, Dis - Disinfection, Down - Downstream, Eff - Final Effluent, PBY - Primary Bypass, Raw - Raw Sewage, SBY - Secondary Bypass, Up - Upstream, Well - Monitoring Well, Aer - Aeration, BRS - Biosolids thickening, Bpd - Biosolids primary digestion, Bpd - Biosolids secondary digestion, Bps - Biosolids per seque, Bss - Biosolids sec super, Bsq - Biosolids soil quality, DAF - Dissolved Air Flocculation, Grit - Primary Treatment/Grit, PFI - Primary Treatment/Grit, PFI - Primary Treatment/Grit, SBR - Secondary Treatment/SBRs, SBEI - Secondary Effluent, TWS - Thickened Waste Activated Sludge, WAS - Waste Activated Sludge, IndW - Industrial Wastewater, PStn - Pump Stn, Sept - Septage, Lcht - Leachate, PTr - Primary Treatment, ReAr - Re-aeration, Tert - Tertiary Treatment, Alf - Acclio, TeBy - Tertiary Bypass, Hold - Holding Tank, CSO - Combined Sewer Overflow, SSO - Sanitary Sewer Overflow

Revised: 2020.07.27

Revision #5

608448659938 HC  
CM 10:00  
RAN

**SGS Canada Inc.**

P.O. Box 4300 - 185 Concession St.  
 Lakefield - Ontario - K0L 2H0  
 Phone: 705-652-2000 FAX: 705-652-6365

**Works #:** 120001470**Project :** PO#017018

01-June-2023

**OCWA-Bruce (Port Elgin WPCP)**

Attn : Karla Young

**Date Rec. :** 19 May 2023**LR Report:** CA12949-MAY23

P.O. Box 760  
 Southampton, ON  
 N0H 2L0, Canada

**Copy:** #1

Phone: 519-797-2561

Fax: pdf

# CERTIFICATE OF ANALYSIS

## Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: BSLQ BSLQ-Sludge Quality Hauled Sludge
Sample Date & Time					18-May-23 13:30
Temperature Upon Receipt [°C]	---	---	---	---	12.0
Total Solids [mg/L]	23-May-23	21:36	25-May-23	09:47	25000
Total Solids (ASH) [mg/L]	23-May-23	21:36	25-May-23	09:47	6080
Total Solids (LOI) [mg/L]	23-May-23	21:36	25-May-23	09:47	19000
pH [pH Units]	24-May-23	08:34	24-May-23	15:24	6.81
Total Kjeldahl Nitrogen [as N mg/L]	23-May-23	16:03	26-May-23	11:51	1700
Ammonia+Ammonium (N) [as N mg/L]	23-May-23	17:06	25-May-23	10:28	128
Nitrite (as N) [mg/L]	23-May-23	19:47	29-May-23	16:01	0.3
Nitrate (as N) [mg/L]	23-May-23	19:47	29-May-23	16:01	< 0.3
Nitrate + Nitrite (as N) [mg/L]	23-May-23	19:47	29-May-23	16:01	0.3
Arsenic [mg/L]	30-May-23	13:59	01-Jun-23	14:23	< 0.1
Cadmium [mg/L]	30-May-23	13:59	01-Jun-23	14:23	0.015
Cobalt [mg/L]	30-May-23	13:59	01-Jun-23	14:23	0.04
Chromium [mg/L]	30-May-23	13:59	01-Jun-23	14:23	0.34
Copper [mg/L]	30-May-23	13:59	01-Jun-23	14:23	16
Mercury [mg/L]	30-May-23	13:59	01-Jun-23	14:23	0.012
Potassium [mg/L]	30-May-23	13:59	01-Jun-23	14:23	99
Molybdenum [mg/L]	30-May-23	13:59	01-Jun-23	14:23	0.16
Nickel [mg/L]	30-May-23	13:59	01-Jun-23	14:23	0.26
Phosphorus (Total) [mg/L]	30-May-23	13:59	01-Jun-23	14:23	849
Lead [mg/L]	30-May-23	13:59	01-Jun-23	14:23	0.2
Selenium [mg/L]	30-May-23	13:59	01-Jun-23	14:23	0.1
Zinc [mg/L]	30-May-23	13:59	01-Jun-23	14:23	10
E. Coli [cfu/1g dried wgt]	19-May-23	12:27	23-May-23	09:02	60000
E. Coli [cfu/100mL]	19-May-23	12:27	23-May-23	09:02	150000

Note: Metals and mercury were analyzed on the as-received sample.  
 The E. coli value reported in CFU/1g dried weight was calculated using Total Solids and CFU/100ml.



**SGS Canada Inc.**

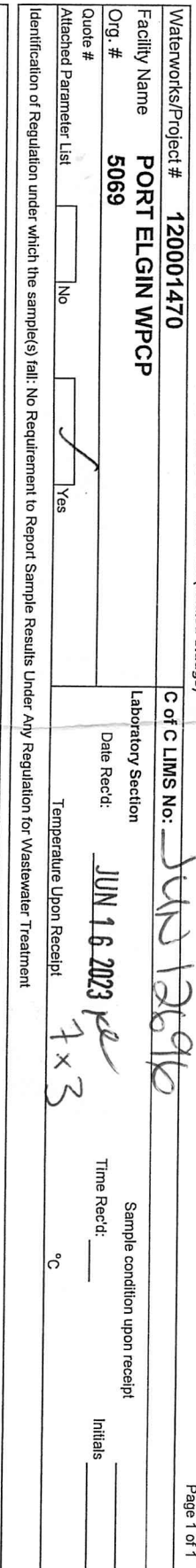
P.O. Box 4300 - 185 Concession St.  
Lakefield - Ontario - K0L 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

**Works #:** 120001470

**Project :** PO#017018  
**LR Report :** CA12949-MAY23

---

*Hawley Anderson, Hon.B.Sc*  
*Project Specialist,*  
*Environment, Health & Safety*



Requested Turnaround Time:	App. Req'd	24-48 h	<input type="checkbox"/>	X	5-7/d	<input type="checkbox"/>	7-10d	<input type="checkbox"/>	Other	<input type="checkbox"/>	Specify: _____
Report to: Process & Compliance Technician (PCT)	Data Transfer Contact: PCT		Involve Tech. Dept. in _____								

Address:	18 Caroline Street Southampton, ON N0H 2L0	18 Caroline Street Southampton, ON N0H 2L0	Inmate ID: Ontario Clean Water Agency 18 Caroline Street Southampton, ON N0H 2L0	Laboratory: SGS Lakefield / London Research Ltd 185 Concession St., Lakefield ON, K0L 2H0 657 Consorium Ct, London ON, N6E 2S8
Telephone:	519-374-5782 (519) 797-3080	519-374-5782 (519) 797-2561 (519) 797-3080	705-652-2000 / 519-672-4500 705-652-6365 / 519-672-0361	
Email:	kyoun@ocwa.com kyoun@ocwa.com	kyoun@ocwa.com adweshi@hland@ocwa.com	entree@greenhaw@ocwa.com / anjela.stoff@ocwa.com	

[illegible]

Sampler Name:	Darren McArthur	Sampler Signature:	
---------------	-----------------	--------------------	---

[illegible]

608487625721

ku i'oo

Rec'd

**SGS Canada Inc.**

P.O. Box 4300 - 185 Concession St.  
 Lakefield - Ontario - K0L 2H0  
 Phone: 705-652-2000 FAX: 705-652-6365

**Works #:** 120001470**Project :** PO#017018

23-June-2023

**OCWA-Bruce (Port Elgin WPCP)**

Attn : Karla Young

**Date Rec. :** 16 June 2023**LR Report:** CA12696-JUN23

P.O. Box 760  
 Southampton, ON  
 N0H 2L0, Canada

**Copy:** #1

Phone: 519-797-2561

Fax: pdf

# CERTIFICATE OF ANALYSIS

## Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: BSLQ BSLQ- Sludge Quality Hauled Sludge	6: BSLQ BSLQ- Sludge Quality Hauled Sludge Bacti
Sample Date & Time					15-Jun-23 11:35	15-Jun-23 11:40
Temperature Upon Receipt [°C]	---	---	---	---	7.0	7.0
Total Solids [mg/L]	19-Jun-23	20:33	21-Jun-23	11:15	26800	27300
Total Solids (ASH) [mg/L]	19-Jun-23	20:33	21-Jun-23	11:15	6580	---
Total Solids (LOI) [mg/L]	19-Jun-23	20:33	21-Jun-23	11:15	20300	---
pH [pH Units]	19-Jun-23	07:42	19-Jun-23	10:00	7.30	---
Total Kjeldahl Nitrogen [as N mg/L]	19-Jun-23	16:43	21-Jun-23	10:59	1840	---
Ammonia+Ammonium (N) [as N mg/L]	19-Jun-23	17:14	20-Jun-23	11:50	257	---
Nitrite (as N) [mg/L]	21-Jun-23	15:07	23-Jun-23	08:52	< 3	---
Nitrate (as N) [mg/L]	21-Jun-23	15:07	23-Jun-23	08:52	< 3	---
Nitrate + Nitrite (as N) [mg/L]	21-Jun-23	15:07	23-Jun-23	08:52	< 3	---
Arsenic [mg/L]	21-Jun-23	15:41	22-Jun-23	17:43	< 0.1	---
Cadmium [mg/L]	21-Jun-23	15:41	22-Jun-23	17:43	0.011	---
Cobalt [mg/L]	21-Jun-23	15:41	22-Jun-23	17:43	0.03	---
Chromium [mg/L]	21-Jun-23	15:41	22-Jun-23	17:43	0.23	---
Copper [mg/L]	21-Jun-23	15:41	22-Jun-23	17:43	9.3	---
Mercury [mg/L]	21-Jun-23	15:41	22-Jun-23	17:43	0.007	---
Potassium [mg/L]	21-Jun-23	15:41	22-Jun-23	17:43	102	---
Molybdenum [mg/L]	21-Jun-23	15:41	22-Jun-23	17:43	0.11	---
Nickel [mg/L]	21-Jun-23	15:41	22-Jun-23	17:43	0.16	---
Phosphorus (Total) [mg/L]	21-Jun-23	15:41	22-Jun-23	17:43	506	---
Lead [mg/L]	21-Jun-23	15:41	22-Jun-23	17:43	0.1	---
Selenium [mg/L]	21-Jun-23	15:41	22-Jun-23	17:43	< 0.1	---
Zinc [mg/L]	21-Jun-23	15:41	22-Jun-23	17:43	7	---
E. Coli [cfu/1g dried wgt]	16-Jun-23	16:08	19-Jun-23	12:43	---	69597
E. Coli [cfu/100mL]	16-Jun-23	16:08	19-Jun-23	12:43	---	190000

Note: Metals and mercury were analyzed on the as-received sample.  
 The E. coli value reported in CFU/1g dried weight was calculated using Total Solids and CFU/100ml.





**SGS Canada Inc.**

P.O. Box 4300 - 185 Concession St.  
Lakefield - Ontario - K0L 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

**Works #:** 120001470

**Project :** PO#017018  
**LR Report :** CA12696-JUN23

---

*Hawley Anderson, Hon.B.Sc*  
*Project Specialist,*  
*Environment, Health & Safety*



Waterworks/Project #	120001470	C of C LIMS No:	Oct 15945
Facility Name	PORT ELGIN WPCP	Laboratory Section	Oct 26 2023
Org. #	5069	Date Recd:	11, 11, 13
Quote #		Temperature Upon Receipt	°C
Attached Parameter List	No	Sample condition upon receipt	Initials
Identification of Regulation under which the sample(s) fall: No Requirement to Report Sample Results Under Any Regulation for Wastewater Treatment			

Requested Turnaround Time:	App. Req'd	24-48 h	X	5-7d	7-10d	Other	Specify:
----------------------------	------------	---------	---	------	-------	-------	----------

Report to: Process & Compliance Technician (PCT)	Date Transfer Contact: PCT	Invoice To: Ontario Clean Water Agency	Laboratory: SGS Lakeland / London Research Ltd
Address: 18 Caroline Street Southampton, ON N0H 2L0	18 Caroline Street Southampton, ON N0H 2L0	18 Caroline Street Southampton, ON N0H 2L0	185 Concession St., Lakeland ON, K0L 2H0 657 Consortium Ct, London ON, NE 2S8
Telephone: 519-374-5782	519-374-5782	(519) 797-2561	705-652-2000 / 519-672-4500
Fax: (519) 797-3080	(519) 797-3080	(519) 797-3080	705-652-6365 / 519-672-0361
Email: kyoung@ocwa.com	kyoung@ocwa.com	adweshighlands@ocwa.com	carrie.greenhaw@sgs.com / andrea.stoll@sgs.com

Sample				Parameters													Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Station Acronym	Station Number (Short Name)	Sample Location Name	Date & Time Collected	# of Bottles	TS	TS ASH	TS LOI	TKN	E.Coli	NH3 + NH4	Nitrite	Nitrate	Nitrite + Nitrate	TP	pH	Metals**																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						

**SGS Canada Inc.**

P.O. Box 4300 - 185 Concession St.  
 Lakefield - Ontario - K0L 2H0  
 Phone: 705-652-2000 FAX: 705-652-6365

**Works #:** 120001470**Project :** PO#017018

03-November-2023

**OCWA-Bruce (Port Elgin WPCP)**

Attn : Karla Young

**Date Rec. :** 26 October 2023**LR Report:** CA15945-OCT23

P.O. Box 760  
 Southampton, ON  
 N0H 2L0, Canada

**Copy:** #1

Phone: 519-797-2561

Fax: pdf

# CERTIFICATE OF ANALYSIS

## Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: BSLQ BSLQ-Sludge Quality Hauled Sludge	6: BSLQ BSLQ-Sudge Quality Hauled Sludge-Bacti
Sample Date & Time					25-Oct-23 10:20	25-Oct-23 10:25
Temperature Upon Receipt [°C]	---	---	---	---	11.0	11.0
Total Solids [mg/L]	26-Oct-23	21:28	01-Nov-23	11:17	22300	23800
Total Solids (ASH) [mg/L]	27-Oct-23	19:17	01-Nov-23	11:17	5590	---
Total Solids (LOI) [mg/L]	27-Oct-23	19:17	01-Nov-23	11:17	16700	---
pH [pH Units]	31-Oct-23	12:58	01-Nov-23	10:00	6.74	---
Total Kjeldahl Nitrogen [as N mg/L]	01-Nov-23	13:21	03-Nov-23	10:16	708	---
Ammonia+Ammonium (N) [as N mg/L]	27-Oct-23	15:28	30-Oct-23	11:57	18.1	---
Nitrite (as N) [mg/L]	27-Oct-23	10:31	30-Oct-23	14:25	< 3	---
Nitrate (as N) [mg/L]	27-Oct-23	10:31	30-Oct-23	14:25	< 3	---
Nitrate + Nitrite (as N) [mg/L]	27-Oct-23	10:31	30-Oct-23	14:25	< 3	---
Arsenic [mg/L]	31-Oct-23	12:52	02-Nov-23	10:37	< 0.1	---
Cadmium [mg/L]	31-Oct-23	12:52	02-Nov-23	10:37	0.012	---
Cobalt [mg/L]	31-Oct-23	12:52	02-Nov-23	10:37	0.03	---
Chromium [mg/L]	31-Oct-23	12:52	02-Nov-23	10:37	0.29	---
Copper [mg/L]	31-Oct-23	12:52	02-Nov-23	10:37	11	---
Mercury [mg/L]	31-Oct-23	12:52	02-Nov-23	10:37	0.009	---
Potassium [mg/L]	31-Oct-23	12:52	02-Nov-23	10:37	74	---
Molybdenum [mg/L]	31-Oct-23	12:52	02-Nov-23	10:37	0.11	---
Nickel [mg/L]	31-Oct-23	12:52	02-Nov-23	10:37	0.20	---
Phosphorus (Total) [mg/L]	31-Oct-23	12:52	02-Nov-23	10:37	677	---
Lead [mg/L]	31-Oct-23	12:52	02-Nov-23	10:37	0.2	---
Selenium [mg/L]	31-Oct-23	12:52	02-Nov-23	10:37	< 0.1	---
Zinc [mg/L]	31-Oct-23	12:52	02-Nov-23	10:37	9	---
E. Coli [cfu/1g dried wgt]	26-Oct-23	14:21	30-Oct-23	11:08	---	205882
E. Coli [cfu/100mL]	26-Oct-23	14:21	30-Oct-23	11:08	---	490000

Note: Metals and mercury were analyzed on the as-received sample.  
 The E. coli value reported in CFU/1g dried weight was calculated using Total Solids and CFU/100ml.



**SGS Canada Inc.**

P.O. Box 4300 - 185 Concession St.  
Lakefield - Ontario - K0L 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

**Works #:** 120001470

**Project :** PO#017018  
**LR Report :** CA15945-OCT23

---

*Hawley Anderson, Hon.B.Sc*  
*Project Specialist,*  
*Environment, Health & Safety*

## **Appendix D**

### Sludge Haulage Records

# Daily Record of Sludge Haulage

Plant/ Facility Name <b>Port Elgin # 5069</b>	Area <b>Saugeen Shores</b>	Date <b>May 17, 2023</b>
--	-------------------------------	-----------------------------

Carrier/ Hauler <b>Barrels Enuro</b>	Site # <b>23706</b>	NOTE: ONLY ONE SHEET PER SITE
---	------------------------	-------------------------------

Load No.	Time		Load Volume (m <sup>3</sup> )	Carrier Information		Driver Initials
	In	Out		Vehicle License #	Trailer #	
1	12:20	12:40	44	127	T-20	BB
2	12:50	1:25	44	415	T-17	BB
3	1:20	1:40	44	127	T20	BB
4	1:55	2:20	44	415	T-17	BB
5	2:30	3:00	44	127	T20	BB
6	3:20	3:35	44	415	T-17	BB
7	4:00	4:30	44	127	T20	BB
8	4:35	5:00	44	415	T-17	BB
9	5:15	5:45	44	127	T20	BB
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

Daily Total

**396 m<sup>3</sup>**

REMARKS

Date

**May 17, 2023**

OCWA Rep.  
Signature

**[Signature]**

X Carrier/ Hauler  
Signature

**[Signature]**

# Daily Record of Sludge Haulage

Plant/ Facility Name <b>Port Elgin # 5069</b>	Area <b>Saugeen Shores</b>	Date <b>May 18-23</b>
--	-------------------------------	--------------------------

Carrier/ Hauler <b>Bartels Environmental</b>	Site # <b>23706</b>
---	------------------------

NOTE: ONLY ONE SHEET PER SITE

Load No.	Time		Load Volume (m <sup>3</sup> )	Carrier Information		Driver Initials
	In	Out		Vehicle License #	Trailer #	
1	6:45	7:10	44	4115	T-17	DH
2	7:20	7:45	44	127	T20	BB
3	8:00	8:20	44	4115	T-17	DH
4	8:30	8:50	44	127	T20	BB
5	9:05	9:25	44	4115	T-17	DH
6	9:40	10:00	44	127	T20	BB
7	10:30	10:50	44	4115	T-17	DH
8	11:00	11:25	44	127	T20	BB
9	12:00	12:20	44	4115	T-17	DH
10	12:20	12:45	44	127	T20	BB
11	12:50	1:20	44	4115	T-17	DH
12	1:20	1:45	44	127	T20	BB
13	1:50	2:15	44	4115	T-17	DH
14	2:20	2:45	44	127	T20	BB
15	3:10	3:25	44	4115	T-17	DH
16	3:30	3:50	44	127	T20	BB
17	4:10	4:25	44	4115	T-17	DH
18	5:00	5:30	44	127	T20	BB
19						
20						

Daily Total

792m<sup>3</sup>

REMARKS

Date

May 18, 2023

OCWA Rep.  
Signature

*[Signature]*

Carrier/ Hauler  
Signature

*[Signature]*

# Daily Record of Sludge Haulage

Plant/ Facility Name <b>Port Elgin # 5069</b>	Area <b>Saugeen Shores</b>	Date <b>May 19-23</b>
Carrier/ Hauler <b>Bartels Environmental</b>	Site # <b>25078</b>	NOTE: ONLY ONE SHEET PER SITE

Load No.	Time		Load Volume (m <sup>3</sup> )	Carrier Information		Driver Initials
	In	Out		Vehicle License #	Trailer #	
1	6:50	7:10	44	4115	T-17	DH
2	7:20	7:45	44	127	T20	BB
3	9:00	9:20	44	127	T20	BB
4	10:00	10:20	44	127	T20	BB
5	11:00	11:20	44	127	T20	BB
6	12:00	12:20	44	127	T20	BB
7	12:55	1:20	44	4115	T-17	DH
8	1:20	1:45	44	127	T20	BB
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

Daily Total

**352m<sup>3</sup>**

REMARKS

Date

**May 19, 2023**

OCWA Rep.  
Signature

*[Signature]*

Carrier/ Hauler  
Signature

*[Signature]*



# Daily Record of Sludge Haulage

Plant/ Facility Name <b>Port Elgin 5069</b>	Area <b>Bruce</b>	Date <b>June 15-23</b>
--	----------------------	---------------------------

Carrier/ Hauler <b>Bartels Enviro-</b>	Site # <b>25095</b>	NOTE: ONLY ONE SHEET PER SITE
---	------------------------	-------------------------------

Load No.	Time		Load Volume (m <sup>3</sup> )	Carrier Information		Driver Initials
	In	Out		Vehicle License #	Trailer #	
1	7:10	7:25	44	415	T-26	DH
2	7:30	7:45	44	343	T-19	MG
3	8:40	8:55	44	415	T-26	DH
4	9:20	9:45	44	343	T-19	MG
5	10:10	10:25	44	415	T-26	DH
6	11:00	11:15	44	343	T-19	MG
7	11:20	11:40	44	415	T-26	DH
8	12:25	12:40	44	343	T-19	MG
9	12:40	1:00	44	415	T-26	DH
10	2:20	2:40	44	415	T-26	DH
11	2:45	3:00	44	343	T-19	MG
12						
13						
14						
15						
16						
17						
18						
19						
20						

Daily Total

**484 m<sup>3</sup>**

REMARKS

Date

**June 15, 2023**

OCWA Rep.  
Signature

*[Signature]*

Carrier/ Hauler  
Signature

*[Signature]*

# Daily Record of Sludge Haulage

Plant/ Facility Name <b>Port Elgin 5069</b>	Area <b>Bruce</b>	Date <b>June 16-23</b>
Carrier/ Hauler <b>Bartels Enviro</b>	Site # <b>25095</b>	NOTE: ONLY ONE SHEET PER SITE

Load No.	Time		Load Volume (m <sup>3</sup> )	Carrier Information		Driver Initials
	In	Out		Vehicle License #	Trailer #	
1	6:30	6:50	44	415	T-26	DH
2	7:10	7:25	44	343	T-19	MG
3	7:50	8:05	44	4209	T-17	WN
4	8:15	8:35	44	415	T-26	DH
5	9:50	10:10	44	343	T-19	MG
6	10:20	10:40	44	415	T-26	DH
7	10:50	11:10	44	4209	T-17	WN
8	11:50	12:10	44	343	T-19	MG
9	12:20	12:40	44	415	T-26	DH
10	12:50	1:10	44	4209	T-17	WN
11	2:40	3:00	44	415	T-26	DH
12						
13						
14						
15						
16						
17						
18						
19						
20						

Daily Total

**434m<sup>3</sup>**

REMARKS

Date

**June 16, 2023**

OCWA Rep.  
Signature

*[Signature]*

X Carrier/ Hauler  
Signature

*[Signature]*

# Daily Record of Sludge Haulage

Plant/ Facility Name <b>PORT ELGIN 5069</b>	Area <b>Bruce</b>	Date <b>June 17, 2023</b>
--	----------------------	------------------------------

Carrier/ Hauler <b>BARTELS ENVIRO.</b>	Site # <b>25095</b>	NOTE: ONLY ONE SHEET PER SITE
---	------------------------	-------------------------------

Load No.	Time		Load Volume (m <sup>3</sup> )	Carrier Information		Driver Initials
	In	Out		Vehicle License #	Trailer #	
1	8:00	8:20	44	415	T-20	DH
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

Daily Total

44 m<sup>3</sup>

REMARKS

Date

June 17, 2023

OCWA Rep.  
Signature

*[Signature]*

X Carrier/ Hauler  
Signature

*[Signature]*

# Daily Record of Sludge Haulage

Plant/ Facility Name <b>Port Elgin WWTP</b>	Area <b>Saugeen Shores</b>	Date <b>JUNE 19 23</b>
Carrier/ Hauler <b>BARTIS</b>	Site # <b>25095</b>	<small>NOTE: ONLY ONE SHEET PER SITE</small>

Load No.	Time		Load Volume (m <sup>3</sup> )	Carrier Information		Driver Initials
	In	Out		Vehicle License #	Trailer #	
1	8:45	9:05	44	415	T-26	DN
2	9:10	9:30	44	343	T-19	MG
3	10:10	10:30	44	415	T-26	DA
4	10:35	11:00	44	343	T-19	MG
5	11:35	11:55	44	415	T-26	DA
6	12:10	12:35	44	343	T-19	MG
7	1:00	1:20	44	415	T-26	DA
8	1:50	2:15	44	343	T-19	MG
9	2:20	2:40	44	415	T-26	DA
10	3:25	3:50	44	343	T-19	MG
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

Daily Total

**440 m<sup>3</sup>**

REMARKS

Date

**June 19, 2023**

OCWA Rep.  
Signature

*[Signature]*

X Carrier/ Hauler  
Signature

*[Signature]*

# Daily Record of Sludge Haulage

Plant/ Facility Name <b>Port Elgin</b>	Area <b>Saugeen Shores</b>	Date <b>June 20 2023</b>
Carrier/ Hauler <b>Bartels Env.</b>	Site # <b>25095</b>	NOTE: ONLY ONE SHEET PER SITE

Load No.	Time		Load Volume (m <sup>3</sup> )	Carrier Information		Driver Initials
	In	Out		Vehicle License #	Trailer #	
1	6:25	6:45	44	415	T-26	DH
2	6:50	7:10	44	343	T-19	MG
3	7:40	8:00	44	415	T-26	DH
4	8:20	8:45	44	343	T-19	MG
5	9:00	9:20	44	415	T-26	DH
6	10:00	10:25	44	343	T-19	MG
7	10:30	10:50	44	415	T-26	DH
8	12:00	12:20	44	415	T-26	DH
9	12:20	12:45	44	343	T-19	MG
10	1:15	1:35	44	415	T-26	DH
11	1:55	2:15	44	343	T-19	MG
12	2:40	3:00	44	415	T-26	DH
13	3:25	3:50	44	343	T-19	MG
14	4:10	4:30	44	415	T-26	DH
15						
16						
17						
18						
19						
20						

Daily Total

616

REMARKS

Date

June 20-2023

OCWA Rep.  
Signature

*Darren McArthur*

Carrier/ Hauler  
Signature

*[Signature]*

# Daily Record of Sludge Haulage

Plant/ Facility Name <b>Port Elgin</b>	Area <b>Saugeen Shores</b>	Date <b>June 21-23</b>
Carrier/ Hauler <b>Bartels Env.</b>	Site # <b>25095</b>	<small>NOTE: ONLY ONE SHEET PER SITE</small>

Load No.	Time		Load Volume (m <sup>3</sup> )	Carrier Information		Driver Initials
	In	Out		Vehicle License #	Trailer #	
1	6:15	6:35	44	4115	T-26	DH
2	6:40	7:00	44	343	T-19	MG
3	7:45	8:10	44	4115	T-26	DH
4	8:15	8:40	44	343	T-19	MG
5	9:10	9:30	44	4115	T-26	DH
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

Daily Total

**220**

REMARKS

Date

**June 21, 2023**

OCWA Rep.  
Signature

*[Signature]*

Carrier/ Hauler  
Signature

*[Signature]*



Plant/ Facility Name <u>Pool Fight 506.9</u>	Area <u>Bruce</u>	Date <u>Sept 7-23</u>
Carrier/ Hauler <u>Bartels</u>	Site # <u>241 98</u>	NOTE: ONLY ONE SHEET PER SITE

Load No.	Time		Load Volume (m <sup>3</sup> )	Carrier Information		Driver Initials
	In	Out		Vehicle License #	Trailer #	
1	7:15	7:30	44	415	T-26	DH
2	7:45	8:00	<del>4382</del> 44	4382	T-14	JH
3	8:00	8:30	44	127	T-20	BB
4	8:45	9:10	44	415	T-26	DH
5	9:10	9:25	44	4382	T-14	JH
6	9:30	9:50	44	127	T-20	BB
7	10:00	10:20	44	415	T-26	DH
8	10:35	10:50	44	4382	T-14	JH
9	11:00	11:25	44	127	T-20	BB
10	11:35	11:50	44	415	T-26	DH
	12:00	12:30	44	4382	T-14	JH
12	12:30	1:00	44	127	T-20	BB
13	1:10	1:30	44	415	T-26	DH
14	1:30	1:45	44	4382	T-14	JH
15	2:00	2:30	44	127	T-20	BB
16	2:40	3:10	44	415	T-26	DH
17	3:20	3:45	44	4382	T-14	JH
18	4:00	4:30	44	127	T-20	BB
19	4:30	4:50	44	415	T-26	DH
20	4:50	5:10	44	4382	T-14	JH

Daily Total

880 m<sup>3</sup>

REMARKS

Date

Sept 7/23

OCWA Rep.  
Signature

Stu Elliott

Carrier/ Hauler  
Signature

B. Bartels



# Daily Record of Sludge Haulage

Plant/ Facility Name <b>PORT ELGIN 5069</b>	Area <b>Bruce</b>	Date <b>Sept. 8/23</b>
Carrier/ Hauler <b>BARTELS</b>	Site # <b>24198</b>	

NOTE: ONLY ONE SHEET PER SITE

Load No.	Time		Load Volume (m <sup>3</sup> )	Carrier Information		Driver Initials
	In	Out		Vehicle License #	Trailer #	
1	6:10	6:30	44	127	T-20	BD
2	6:35	7:00	44	415	T-26	DH
3	7:00	7:20	44	4382	T-14	26
4	8:00	8:20	44	415	T-20	BD
5	8:20	8:40	44	415	T-26	DH
6	8:40	9:00	44	4382	T-14	26
7	9:00	9:20	44	127	T-20	BD
8	9:30	9:50	44	415	T-26	DH
9	9:50	10:10	44	4382	T-14	26
10	10:45	11:10	44	127	T-20	BD
	11:10	11:30	44	415	T-26	DH
12	11:30	11:50	44	4382	T-14	26
13	12:00	12:20	44	127	T-20	BD
14	12:40	1:10	44	415	T-26	DH
15	1:10	1:30	44	4382	T-14	26
16	1:40	2:10	44	127	T-20	BD
17	2:10	2:25	44	415	T-26	DH
18	2:30	2:50	44	4382	T-14	26
19						
20						

Daily Total

792

REMARKS

Date

Sept. 08/23

OCWA Rep.  
Signature

*Stenille*

Carrier/ Hauler  
Signature



# Daily Record of Sludge Haulage

Page of



Plant/ Facility Name <b>Port Elgin</b>	Area <b>Saugeen Shores</b>	Date <b>Oct 25-23</b>
Carrier/ Hauler <b>Bartels</b>	Site # <b>25069</b>	NOTE: ONLY ONE SHEET PER SITE

Load No.	Time		Load Volume (m³)	Carrier Information		Driver Initials
	In	Out		Vehicle License #	Trailer #	
1	6:00	6:20	44	4115	T-26	DH
2	6:30	6:50	44	4282	T-27	JH
3	7:30	7:50	44	4115	T-26	DH
4	8:45	9:05	44	4282	T-27	JH
5	9:25	9:50	44	4115	T-26	DH
6	9:55	10:20	44	4282	T-27	JH
7	10:30	10:55	44	4115	T-26	DH
8	10:55	11:20	44	4282	T-27	JH
9	11:30	11:50	44	4115	T-26	DH
10	11:50	12:10	44	4282	T-27	JH
11	12:20	12:40	44	4115	T-26	DH
12	12:45	1:05	44	4282	T-27	JH
13	1:20	1:40	44	4115	T-26	DH
14	1:45	2:10	44	4282	T-27	JH
15	2:15	2:35	44	4115	T-26	DH
16	2:40	3:05	44	4282	T-27	JH
17	3:10	3:30	44	4115	T-26	DH
18	3:50	4:10	44	4282	T-27	JH
19	4:15	4:35	44	4115	T-26	DH
20	4:50	5:10	44	4282	T-27	JH
Daily Total			880			

REMARKS

Date **Oct 25, 2023**

OCWA Rep.  
Signature

*Darren McArthur*

Carrier/ Hauler  
Signature

*[Signature]*

# Daily Record of Sludge Haulage

Page of

Plant/ Facility Name <u>Port Elgin</u>	Area <u>Saugeen Shores</u>	Date <u>Oct 26-23</u>
Carrier/ Hauler <u>Bartels Env.</u>	Site # <u>25069</u>	NOTE: ONLY ONE SHEET PER SITE

Load No.	Time		Load Volume (m <sup>3</sup> )	Carrier Information		Driver Initials
	In	Out		Vehicle License #	Trailer #	
1	7:30	7:50	44	4115	T-26	DH
2	8:00	8:20	44	4282	T-27	JH
3	8:40	9:00	44	4115	T-26	DH
4	9:00	9:20	44	4282	T-27	JH
5	9:25	9:45	44	4115	T-26	DH
6	9:50	10:10	44	4282	T-27	JH
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

Daily Total

264

REMARKS

Date

Oct 26, 2023

OCWA Rep.  
Signature

Dawn M. [Signature]

Carrier/ Hauler  
Signature

[Signature]

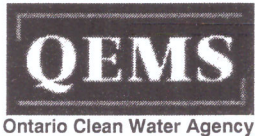
# **Appendix E**

## Community Complaints

## **Appendix F**

Septage Receiving





**5069 Port Elgin WWTP  
Sludge Receiving Station**  
Month: ~~JANUARY~~ <sup>May</sup> Year: 2023

Issued: 2020-02-13  
Rev.#: 1  
Pages: 1 of 2

Reviewed by: Process & Compliance Technician

Approved by: Senior Operations Manager

Date	Time	Oper ID	Hauler	Source Location	Residential	Industrial	Commercial	Volume (m <sup>3</sup> )
May 21	10:25	OP	OCWA	Mill St Pump Station	✓			1
June 11	11:45	OP	OCWA	Gables Seaw	✓			8
June 20	09:20	OP	OCWA	Gables Seaw	✓			4
June 20	09:30	OP	OCWA	Gables Seaw Washroom	-			4
June 30	12:25	OP	OCWA	Gables Seaw Washroom	-			3
July 3	08:20	OP	OCWA	Gables Seaw Washroom	-			5
July 12	14:15	OP	OCWA	Gables Seaw Washroom	-			5
July 21	09:25	OP	OCWA	Gables Seaw Washroom	-			5
July 28	09:50	OP	OCWA	Gables Seaw Washroom	-			8
Aug 3	08:55	OP	OCWA	Gables Seaw Washroom	-			6
Aug 11	10:05	OP	OCWA	Gables Seaw Washroom	-			8
Aug 12	09:00	OP	OCWA	Gables Seaw Washroom	-			4
Aug 24	09:10	OP	OCWA	Gables Seaw Washroom	-			4
Sept 1	08:40	OP	OCWA	Gables Seaw Washroom	-			3
Sept 8	08:40	OP	OCWA	Gables Seaw Washroom	-			10
Sept 14	11:25	OP	OCWA	Gables Seaw Washroom	-			2
Sept 21	09:15	OP	OCWA	Gables Seaw Washroom	-			3
Oct 13	09:50	OP	OCWA	Gables Seaw Washroom	-			4
Month of <u>Year</u> Total								<u>78</u> 83

## **Appendix G**

### Spills & Bypass Reports

**From:** Karla Young  
**To:** ["Graham, Robert G. \(MECP\)"; "Smith, Mark \(MECP\)"; "Shannon, Rhonda \(MECP\)"](#)  
**Cc:** [Daniel Macleod; -GHRH-SPCM@ocwa.com \(Mailing List\); Caralynn McRae](#)  
**Subject:** 2023 Q1 - Bypass/Overflow Event Summary - Port Elgin WPCP (120001470) - Town of Saugeen Shores  
**Date:** May-11-23 10:52:00 AM

---

Good Morning,

Under ECA 0556-AKQN3Q, a quarterly summary report shall be submitted for Bypass Event(s) and Overflows that occur at the Port Elgin Water Pollution Control Plant.

#### Bypass Events

The ECA requires the submission of a summary report of the Bypass Event(s) to the Water Supervisor on a quarterly basis, no later than each of the following dates for each calendar year: February 15, May 15, August 15, and November 15.

The summary reports shall contain, at a minimum:

- the date and time of the Bypass;
- the location of the Bypass and the treatment process(es) bypassed;
- the reason(s) for the Bypass;
- the disinfection status of the Bypass;
- the duration of the Bypass Event;
- the measured or estimated volume of Bypass;
- the impact of the Bypass on the quality of the Final Effluent;
- Samples collected.

Date	Time		Duration	Volume	Treatment Process Bypassed	Samples Collected	Reason for Bypass	Impact of Bypass	Mitigation
	Start	End	HH:MM	(M³)					
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

#### Overflow Events

The ECA requires the submission of a summary report of the Overflow Event(s) to the Water Supervisor on a quarterly basis, no later than each of the following dates for each calendar year: February 15, May 15, August 15, and November 15.

The summary reports shall contain, at a minimum:

- the date and time of the Overflow;
- the location of the Overflow and the receiver;
- the reason(s) for the Overflow;
- the level of treatment the Overflow has received and disinfection status of same;
- the duration of the Overflow Event;
- the measured or estimated volume of the Overflow;
- the impact of Overflow on the receiver;
- Samples collected;

Date	Time		Duration	Volume	Level of Treatment	Disinfection Status of Overflow	Reason for Overflow	Receiver	Samples Collected	Impact on Receiver
	Start	End	HH:MM	(M³)						
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Thanks

Karla

Karla Young  
 Process & Compliance Technician  
 Grey-Bruce/Bruce Hubs  
 Georgian Highlands Region  
**Ontario Clean Water Agency**  
[kyoung@ocwa.com](mailto:kyoung@ocwa.com)  
 (519) 374 - 5782



**From:** Karla Young  
**To:** ["Graham, Robert G. \(MECP\)"; "Smith, Mark \(MECP\)"; "Shannon, Rhonda \(MECP\)"](#)  
**Cc:** [Daniel Macleod; -GHRH-SPCM@ocwa.com \(Mailing List\); Caralynn McRae](#)  
**Subject:** 2023 Q2 - Bypass/Overflow Event Summary - Port Elgin WPCP (120001470) - Town of Saugeen Shores  
**Date:** August-10-23 12:12:00 PM

---

Good Morning,

Under ECA 0556-AKQN3Q, a quarterly summary report shall be submitted for Bypass Event(s) and Overflows that occur at the Port Elgin Water Pollution Control Plant.

#### Bypass Events

The ECA requires the submission of a summary report of the Bypass Event(s) to the Water Supervisor on a quarterly basis, no later than each of the following dates for each calendar year: February 15, May 15, August 15, and November 15.

The summary reports shall contain, at a minimum:

- the date and time of the Bypass;
- the location of the Bypass and the treatment process(es) bypassed;
- the reason(s) for the Bypass;
- the disinfection status of the Bypass;
- the duration of the Bypass Event;
- the measured or estimated volume of Bypass;
- the impact of the Bypass on the quality of the Final Effluent;
- Samples collected.

Date	Time		Duration	Volume	Treatment Process Bypassed	Samples Collected	Reason for Bypass	Impact of Bypass	Mitigation
	Start	End	HH:MM	(M³)					
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

#### Overflow Events

The ECA requires the submission of a summary report of the Overflow Event(s) to the Water Supervisor on a quarterly basis, no later than each of the following dates for each calendar year: February 15, May 15, August 15, and November 15.

The summary reports shall contain, at a minimum:

- the date and time of the Overflow;
- the location of the Overflow and the receiver;
- the reason(s) for the Overflow;
- the level of treatment the Overflow has received and disinfection status of same;
- the duration of the Overflow Event;
- the measured or estimated volume of the Overflow;
- the impact of Overflow on the receiver;
- Samples collected;

	Time	Duration	Volume		Disinfection	Reason		Samples	Impact on
--	------	----------	--------	--	--------------	--------	--	---------	-----------

Date					Level of Treatment	Status of Overflow	for Overflow	Receiver	Collected	Receiver
	Start	End	HH:MM	(M <sup>3</sup> )						
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Thanks

Karla

Karla Young  
 Process & Compliance Technician  
 Grey-Bruce/Bruce Hubs  
 Georgian Highlands Region  
**Ontario Clean Water Agency**  
[kyoung@ocwa.com](mailto:kyoung@ocwa.com)  
 (519) 374 - 5782

**From:** Karla Young  
**To:** [Graham, Robert G. \(MECP\)](#); ["Smith, Mark \(MECP\)"; "Shannon, Rhonda \(MECP\)"](#)  
**Cc:** [Daniel Macleod](#); [-GHRH-SPCM@ocwa.com \(Mailing List\)](mailto:-GHRH-SPCM@ocwa.com); [Caralynn McRae](#)  
**Subject:** 2023 Q3 - Bypass/Overflow Event Summary - Port Elgin WPCP (120001470) - Town of Saugeen Shores  
**Date:** October-23-23 11:03:00 AM

---

Good Morning,

Under ECA 0556-AKQN3Q, a quarterly summary report shall be submitted for Bypass Event(s) and Overflows that occur at the Port Elgin Water Pollution Control Plant.

#### Bypass Events

The ECA requires the submission of a summary report of the Bypass Event(s) to the Water Supervisor on a quarterly basis, no later than each of the following dates for each calendar year: February 15, May 15, August 15, and November 15.

The summary reports shall contain, at a minimum:

- the date and time of the Bypass;
- the location of the Bypass and the treatment process(es) bypassed;
- the reason(s) for the Bypass;
- the disinfection status of the Bypass;
- the duration of the Bypass Event;
- the measured or estimated volume of Bypass;
- the impact of the Bypass on the quality of the Final Effluent;
- Samples collected.

Date	Time		Duration	Volume	Treatment Process Bypassed	Samples Collected	Reason for Bypass	Impact of Bypass	Mitigation
	Start	End	HH:MM	(M³)					
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

#### Overflow Events

The ECA requires the submission of a summary report of the Overflow Event(s) to the Water Supervisor on a quarterly basis, no later than each of the following dates for each calendar year: February 15, May 15, August 15, and November 15.

The summary reports shall contain, at a minimum:

- the date and time of the Overflow;
- the location of the Overflow and the receiver;
- the reason(s) for the Overflow;
- the level of treatment the Overflow has received and disinfection status of same;
- the duration of the Overflow Event;
- the measured or estimated volume of the Overflow;
- the impact of Overflow on the receiver;
- Samples collected;

	Time	Duration	Volume		Disinfection	Reason		Samples	Impact on
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Date					Level of Treatment	Status of Overflow	for Overflow	Receiver	Collected	Receiver
	Start	End	HH:MM	(M <sup>3</sup> )						
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Thanks

Karla

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**From:** Karla Young  
**To:** ["Graham, Robert G. \(MECP\)"; "Smith, Mark \(MECP\)"; "Shannon, Rhonda \(MECP\)"](#)  
**Cc:** [Daniel Macleod; -GHRH-SPCM@ocwa.com \(Mailing List\); Caralynn McRae](#)  
**Subject:** 2023 Q4 - Bypass/Overflow Event Summary - Port Elgin WPCP (120001470) - Town of Saugeen Shores  
**Date:** January-30-24 4:51:00 PM

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Good afternoon,

Under ECA 0556-AKQN3Q, a quarterly summary report shall be submitted for Bypass Event(s) and Overflows that occur at the Port Elgin Water Pollution Control Plant.

#### Bypass Events

The ECA requires the submission of a summary report of the Bypass Event(s) to the Water Supervisor on a quarterly basis, no later than each of the following dates for each calendar year: February 15, May 15, August 15, and November 15.

The summary reports shall contain, at a minimum:

- the date and time of the Bypass;
- the location of the Bypass and the treatment process(es) bypassed;
- the reason(s) for the Bypass;
- the disinfection status of the Bypass;
- the duration of the Bypass Event;
- the measured or estimated volume of Bypass;
- the impact of the Bypass on the quality of the Final Effluent;
- Samples collected.

Date	Time		Duration	Volume	Treatment Process Bypassed	Samples Collected	Reason for Bypass	Impact of Bypass	Mitigation
	Start	End	HH:MM	(M³)					
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

#### Overflow Events

The ECA requires the submission of a summary report of the Overflow Event(s) to the Water Supervisor on a quarterly basis, no later than each of the following dates for each calendar year: February 15, May 15, August 15, and November 15.

The summary reports shall contain, at a minimum:

- the date and time of the Overflow;
- the location of the Overflow and the receiver;
- the reason(s) for the Overflow;
- the level of treatment the Overflow has received and disinfection status of same;
- the duration of the Overflow Event;
- the measured or estimated volume of the Overflow;
- the impact of Overflow on the receiver;
- Samples collected;

	Time	Duration	Volume		Disinfection	Reason		Samples	Impact on
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Date					Level of Treatment	Status of Overflow	for Overflow	Receiver	Collected	Receiver
	Start	End	HH:MM	(M³)						
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Thanks

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