

ANNUAL PERFORMANCE REPORT

ENVIRONMENTAL COMPLIANCE APPROVAL No. 8524-D7MLJN

MIDHURST VALLEY INTERIM WASTEWATER TREATMENT PLANT

FOR THE PERIOD:
JANUARY 1, 2025 – DECEMBER 31, 2025

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



REQUIREMENTS OF ANNUAL PERFORMANCE REPORT

This annual performance report was prepared in accordance with Environmental Compliance Approval No. 8524-D7MLJN for the Midhurst Valley Interim Wastewater Treatment Plant per Section 12.4 as it meets and goes above the requirements from ECA No. 8941-CML6V.

12.4. REPORTING

The Owner shall prepare performance reports on a calendar year basis and submit to the District Manager by March 31 of the calendar year following the period being reported upon. The reports shall contain, but shall not be limited to, the following information pertaining to the reporting period:

- a. a summary and interpretation of all Influent and the process waste from the water treatment plants (for co-treatment at the WWTP) monitoring data, and a review of the historical trend of the sewage characteristics and flow rates;
- b. a summary and interpretation of all Final Effluent monitoring data, including concentration, flow rates and a comparison to the design objectives and compliance limits in this Approval, including an overview of the success and adequacy of the Works;
- c. a summary of all operating issues encountered and corrective actions taken;
- d. a summary of all normal and emergency repairs and maintenance activities carried out on any major structure, equipment, apparatus or mechanism forming part of the Works;
- e. a summary of any effluent quality assurance or control measures undertaken;
- f. a summary of the calibration and maintenance carried out on all Influent, and the process waste from the water treatment plants (for co-treatment at the WWTP) and Final Effluent monitoring equipment to ensure that the accuracy is within the tolerance of that equipment as required in this Approval or recommended by the manufacturer;
- g. a summary of efforts made to achieve the design objectives in this Approval, including an assessment of the issues and recommendations for pro-active actions if any are required under the following situations:
 - i. when any of the design objectives is not achieved more than 50% of the time in a year, or there is an increasing trend in deterioration of Final Effluent quality;
 - ii. when the Annual Average Daily Influent Flow reaches 80% of the Rated Capacity;

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The Corporation of the Township of Springwater: Midhurst Valley Interim Wastewater Treatment Plant
Environmental Compliance Approval Number 8941-C8ML6V (Issue Date: June 29, 2022) & 8524-D7MLJN
(Issue Date: March 5, 2025)

Reporting Period: January 1, 2025 – December 31, 2025

h. a tabulation of the volume of sludge generated, an outline of anticipated volumes to be generated in the next reporting period and a summary of the locations to where the sludge was disposed;

i. a summary of any complaints received and any steps taken to address the complaints;

j. a summary of all Bypasses, Overflows, other situations outside Normal Operating Conditions and spills within the meaning of Part X of EPA and abnormal discharge events;

k. a summary of all Notice of Modifications to Sewage Works completed under Paragraph 1.d. of Condition 11, including a report on status of implementation of all modification.

l. a summary of efforts made to achieve conformance with Procedure F-5-1 including but not limited to projects undertaken and completed in the sanitary sewer system that result in overall Bypass/Overflow elimination including expenditures and proposed projects to eliminate Bypass/Overflows with estimated budget forecast for the year following that for which the report is submitted.

m. any changes or updates to the schedule for the completion of construction and commissioning operation of major process(es) / equipment groups in the Proposed Works.

n. a summary of any deviation from the monitoring schedule and reasons for the current reporting year and a schedule for the next reporting year;

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This report was prepared in accordance with its Environmental Compliance Approval (ECA) No. 8524-D7MLJN (issued on March 5, 2025) as per Section 12.4. Elements a. through n. during the 'Reporting Period' of January 1, 2025 to December 31, 2025.

1. System Description

Located in Midhurst, Township of Springwater, the Midhurst Interim Wastewater Treatment Plant (WWTP) began operating in a limited capacity as of December 5, 2022 and since July 22, 2024 effluent disposal and monitoring commenced, however the treatment plant is still not fully commissioned. The WWTP services the Midhurst Valley Residential Development and is owned by the residential developers and operated in partnership by the Ontario Clean Water Agency (OCWA) on behalf of the Township of Springwater, with TYlin as the consultant.

The works was established for the usage and operation of a new municipal sewage works, for the treatment of sanitary sewage and disposal to Willow Creek via a Sewage Treatment Plant (Midhurst Valley Interim WWTP). The pre-engineered package treatment plant consists of the headworks which receives raw sewage from the influent pumping station (PS), preliminary treatment system consisting of screening and grit removal, which discharges to the equalization storage tank. The influent then passes through secondary treatment in a MLE (Modified-Ludzak-Ettinger) bioreactor basin with internal mixing systems, aeration system and nitrate recycling stream. Further secondary treatment is provided by three (3) membrane bioreactor tanks (MBRs) and a 100 mm diameter WAS line that conveys the wasted activated sludge (WAS) to a sludge holding tank. Supplementary treatment includes chemical phosphorus removal and ultraviolet disinfection (UV) chambers. Biosolids are stored through one (1) WAS holding tank with a jet mixing aeration system. Sludge is hauled offsite by a licensed hauler for offsite stabilization and/or storage. The WWTP discharges the treated effluent via its outfall to Willow Creek (as of July 22, 2024). The facility is equipped with standby power in the event of a power failure.

As of the end of the 2025 reporting period, the facility remains in partial commissioning, with full commissioning dependent on continued residential build-out and increased influent flows.

An overview of the Midhurst Valley Interim Wastewater Treatment Plant is found in the following table:

Table 1. Midhurst Valley Interim Wastewater Treatment Plant System Overview

Facility Name:	Midhurst Valley Interim Wastewater Treatment Plant
Facility Type:	Screening and Grit removal, Secondary Treatment, Chemical phosphorus removal, and UV disinfection
Plant Classification:	Class II Wastewater Treatment and Class I Collection (as of February 4, 2025)

Works Number:	120003977
Rated Capacity:	• 516 m³/d for servicing a total of 400 residential dwellings (or 1,200 people); • 1,032 m³/d for servicing a total of 800 residential dwellings (or 2,400 people)
Discharge Point:	Willow Creek (as of July 22, 2024)
Environmental Compliance Approval:	8941-C8ML6V (Issue Date: June 29, 2022) 8524-D7MLJN (Issue Date: March 5, 2025)

2. Monitoring Data – Influent

Where ECA 8524-D7MLJN, Section 12.4(a) requires:

“a summary and interpretation of all Influent and the process waste from the water treatment plants (for co-treatment at the WWTP) monitoring data, and a review of the historical trend of the sewage characteristics and flow rates;”

2.1 Influent ECA Monitoring Program

The following table outlines the influent monitoring program at the WWTP as required by the Interim ECA for the reporting period.

Table 2. Influent Water Quality Monitoring Program and Sampling Points- as per ECA 8524-D7MLJN Schedule D

Parameters	Sample Type	Minimum Frequency
Biochemical Oxygen Demand (BOD ₅)	24 hour composite	Weekly
Total Suspended Solids	24 hour composite	Weekly
Total Phosphorus	24 hour composite	Weekly
Total Kjeldahl Nitrogen	24 hour composite	Weekly
Total Dissolved Solids *	24 hour composite	Weekly
Alkalinity	24 hour composite	Weekly

** as disposal of process waste of the water treatment plants (e.g., waste brine from the ion exchanger, waste filtrate / concentrate from the filters / membranes) to the Midhurst sewage treatment works occurs.*

Note: Under ECA 8941-C8ML6V samples were taken as 8 hour composites and were not tested for Total Dissolved Solids

2.2 Raw (Influent) Characteristics: Summary and Interpretation of Reporting Year

The following parameters in Table 3 are not reportable as they do not have limits or objectives but are monitored as required by the ECA and used to characterize the contents of incoming sewage flow.

A summary of the influent laboratory results of samples taken and analyzed during the reporting period is in Table 3. Sample results are based on weekly 24-hour composite samples that were taken and then analyzed by an accredited external laboratory- 57 influent samples were analyzed in 2025.

Table 3: Raw Sewage (Influent) Quality Analysis for 2025

Month	Monthly Influent Concentrations (mg/L)				
	BOD ₅	Total Suspended Solids	Total Phosphorus	Total Kjeldahl Nitrogen	Alkalinity
January	363.00	415.25	11.81	59.45	357.25
February	611.75	459.75	12.57	67.83	366.50
March	429.50	916.00	25.02	88.53	376.75
April	350.71	412.14	10.67	58.83	364.00
May	297.17	307.50	6.86	48.68	387.67
June	250.50	261.25	7.06	49.70	379.50
July	168.80	243.40	4.99	32.22	314.20
August	195.75	256.00	4.47	28.85	308.00
September	191.50	280.75	6.69	37.98	325.50
October	199.20	291.80	6.61	41.40	320.00
November	257.25	368.25	7.60	47.28	341.25
December	211.40	299.60	5.42	41.14	348.80
2025	291.64	370.23	8.96	49.93	350.14

Laboratory analysis of the influent throughout the year indicated that BOD₅ peaked in February (611.75 mg/L), Total Suspended Solids peaked in March (916.00 mg/L) and Total Phosphorus peaked in March (25.02 mg/L). The highest recorded Total Kjeldahl Nitrogen concentration was recorded in March 2025 at 88.53 mg/L.

Overall, there were few fluctuations to influent contents throughout the reporting year for all parameters. As influent flows increased from an annual average of 164.49 m³/d in 2024 to 214.79 m³/d in 2025, the annual average influent concentrations of BOD₅, TSS, Total Phosphorus, and TKN also increased, consistent with continued build-out and higher organic loading.

2.3 Raw Sewage (Influent) Flow: Summary and Interpretation of Reporting Year

The following table outlines the average and maximum daily raw sewage (influent) flow by month during the reporting period and the graph shows the comparison of the influent flow data during the reporting period with the Rated Capacity and Plant Peak Flow Rate.

Table 4. 2025 Raw Sewage (Influent) Average and Maximum Daily Flow Data with Comparison to the Rated Capacity

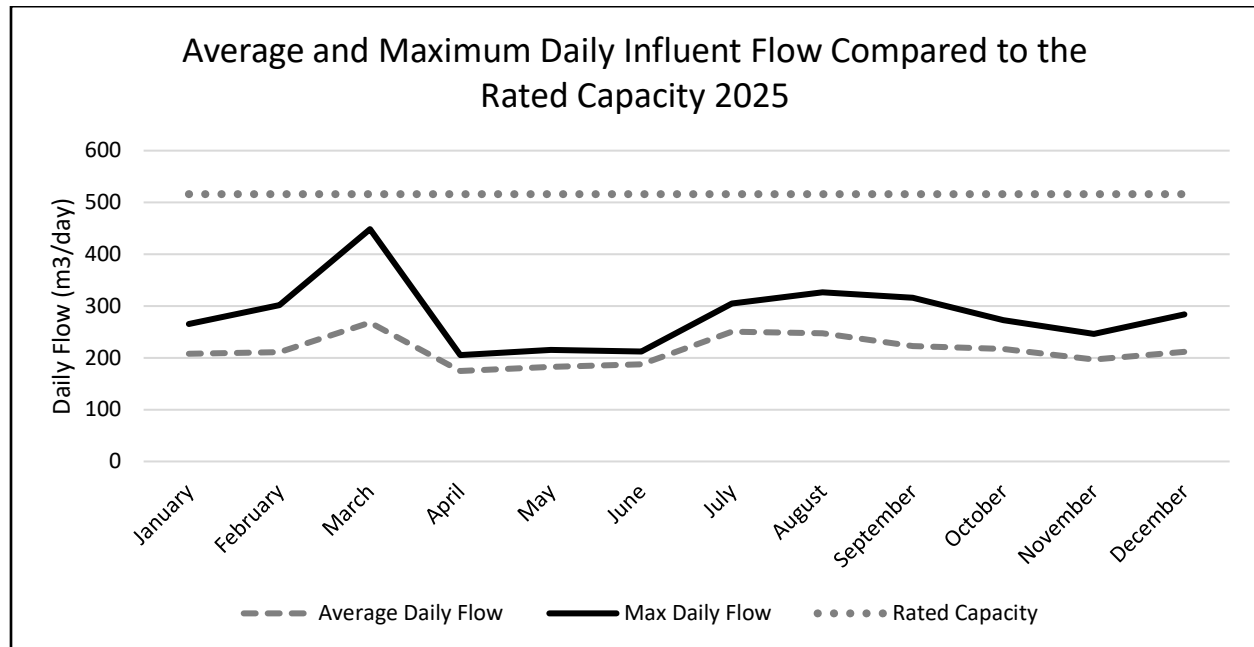
Timeframe	Average Flow (m ³ /d)	% of Rated Capacity (516 m ³ /d)	Peak Flow (m ³ /d)	% of Rated Capacity (516 m ³ /d)	Total Flow (m ³)
January	207.98	40.31%	265.50	51.45%	6,447.25
February	210.77	40.85%	301.70	58.47%	5,901.60
March	268.07	51.95%	448.42 ^{4A}	86.90% ^{4A}	7,774.04
April	174.64	33.84%	205.34	39.79%	5,064.50
May	182.28	35.33%	215.44	41.75%	5,650.62
June	187.22	36.28%	212.22	41.13%	5,616.56
July	250.52	48.55%	304.91	59.09%	7,515.59
August	247.16	47.90%	326.32	63.24%	7,661.86
September	222.72	43.16%	316.01	61.24%	6,681.62
October	217.42	42.14%	272.73	52.85%	6,740.04
November	196.70	38.12%	246.44	47.76%	5,704.36
December	211.77	41.04%	284.10	55.06%	6,564.82
2025	214.79	41.63%	448.42^{4A}	86.90%^{4A}	77,322.86

^{4A}March 19, 2025: High peak flow determined to be from equalization transfer tanks overflowing back as float switches had a blown fuse causing eq pumps to run intermittently.

The average daily flow during the reporting period was 214.79m³/day. In 2025, Midhurst Valley Interim WWTP operated under the rated capacity of the system of 516 m³/day (for servicing a total of 400 residential dwellings). In 2025, the Midhurst Valley Interim WWTP serviced approximately 273 residential dwellings, as confirmed with the Owner on December 12, 2024. Average and peak daily influent flow has remained steady month over month for the system.

The Annual Average Daily Influent Flow did not reach 80% of the Rated Capacity during the reporting period.

Graph 1: Daily Average Influent Flow Compared with the Rated Capacity and Maximum Peak Design Flow Rate for 2025

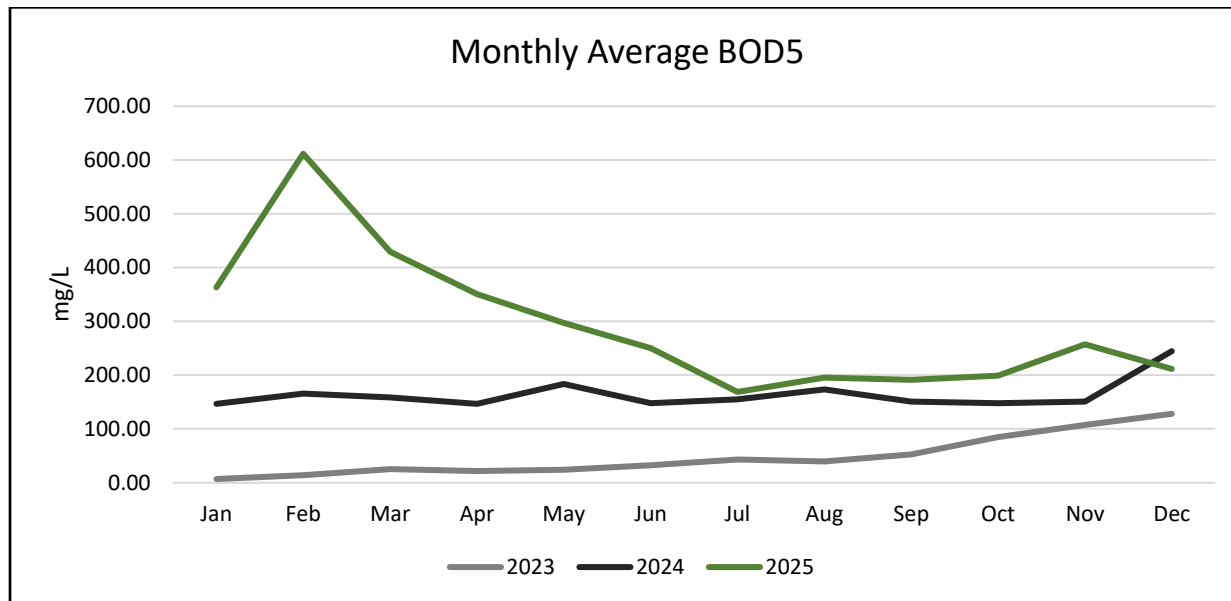


2.4 Raw Sewage (Influent) Characteristics: Review of Historical Trends

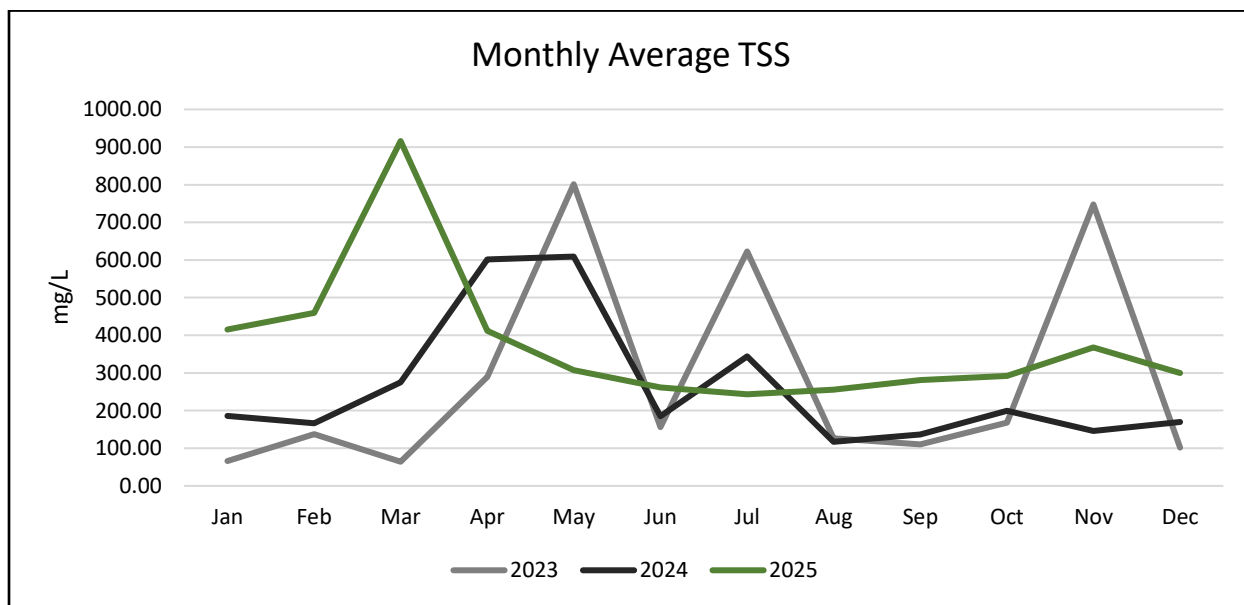
The below graphs show the average monthly raw sewage concentrations between 2023 and 2025. Average Influent flows have increased significantly (as expected as the development is built-out and homes are occupied). The average flow in 2024 was 164.33 m³ and the average flow in 2025 was 214.79 m³.

A review of 2024 and 2025 influent data indicates increases in both influent flows and influent concentrations between the two years. Annual average influent BOD₅ increased from 233.08 mg/L in 2024 to 291.64 mg/L in 2025, TSS increased from 261.34 mg/L to 370.23 mg/L, Total Phosphorus increased from 5.65 mg/L to 8.96 mg/L, and TKN increased from 42.35 mg/L to 49.93 mg/L. These changes are consistent with the ongoing connection of additional residential units to the system.

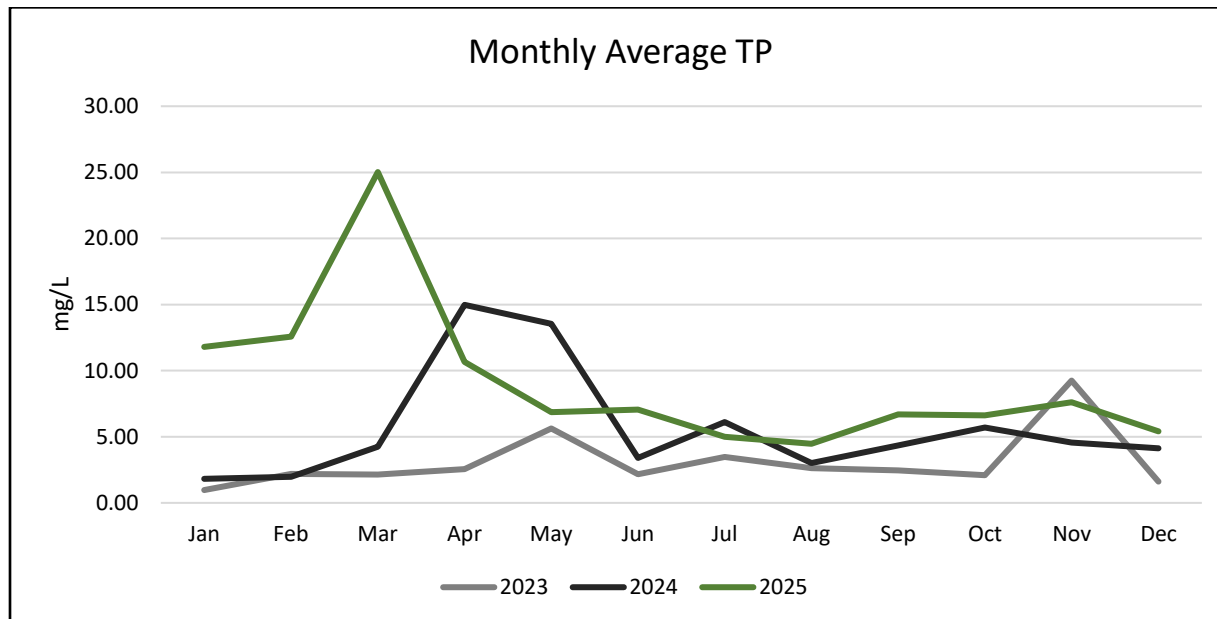
Graph 2: BOD₅ Monthly Average



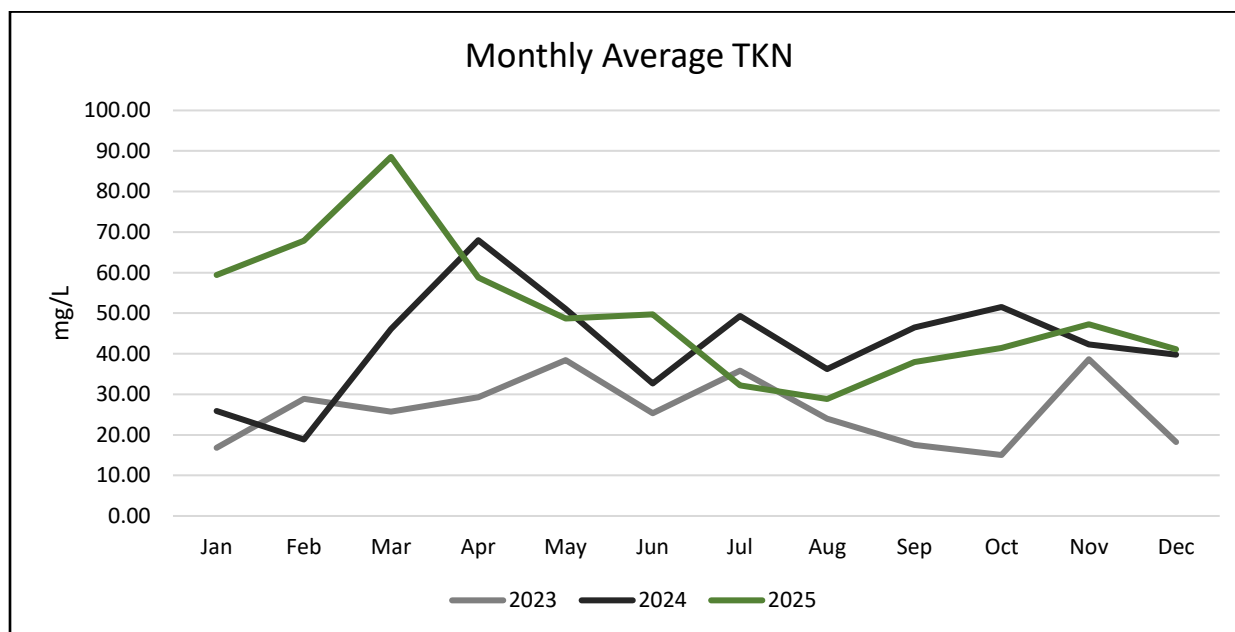
Graph 3: Total Suspended Solids Monthly Average



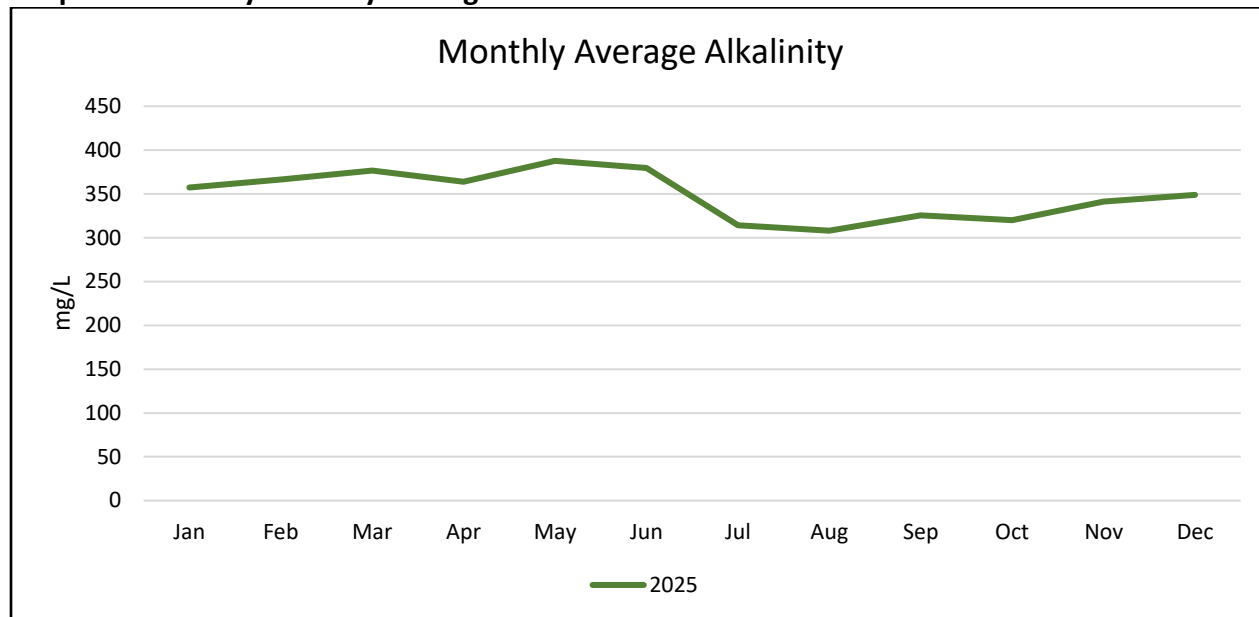
Graph 4: Total Phosphorus Monthly Average



Graph 5: Total Kjeldahl Nitrogen Monthly Average



Graph 6: Alkalinity Monthly Average



3. Monitoring Data – Effluent

Where ECA 8524-D7MLJN, Section 12.4(b) requires:

“a summary and interpretation of all Final Effluent monitoring data, including concentration, flow rates and a comparison to the design objectives and compliance limits in this Approval, including an overview of the success and adequacy of the Works;”

3.1 Effluent ECA Monitoring Program

The following tables outline the monitoring program at the Midhurst Valley Interim Wastewater Treatment Plant as per its ECA as it applies to effluent samples taken for the purpose of being analyzed by analytical laboratories.

Effluent monitoring and sampling was completed as required upon start-up of this portion of the Works. However, the treatment facility is still being commissioned and under development.

Table 5. Effluent Water Quality Monitoring Program and Sampling Points- as per ECA 8524-D7MLJN Schedule D

Parameters	Sample Type	Minimum Frequency
Carbonaceous Biochemical Oxygen Demand (CBOD ₅)	24 hour composite	Weekly

Parameters	Sample Type	Minimum Frequency
Total Suspended Solids (TSS)	24 hour composite	Weekly
Total Phosphorous (TP)	24 hour composite	3 times per week ^{5A}
Dissolved Reactive Phosphorus	24 hour composite	3 times per week ^{5A}
Total Ammonia Nitrogen (TAN)	24 hour composite	Weekly
Total Kjeldahl Nitrogen (TKN)	24 hour composite	Weekly
Nitrate as Nitrogen	24 hour composite	Weekly
Nitrite as Nitrogen	24 hour composite	Weekly
Total Dissolved Solids	24 hour composite	Weekly***
Sulphate	24 hour composite	Weekly***
Chloride	24 hour composite	Weekly***
Sodium	24 hour composite	Weekly***
Iron	24 hour composite	Weekly***
Manganese	24 hour composite	Weekly***
<i>E.Coli</i>	Grab	Weekly
Acute Lethality to Rainbow Trout and Daphnia Magna	Grab	Semi-annually***
pH*	Grab/Probe/Analyzer	Weekly
Temperature*	Grab/Probe/Analyzer	Weekly
Un-ionized Ammonia**	As Calculated	Weekly

**pH and temperature of the Final Effluent shall be determined in the field at the time of sampling for Total Ammonia Nitrogen.*

***The concentration of un-ionized ammonia shall be calculated using the total ammonia concentration, pH and temperature using the methodology stipulated in "Ontario's Provincial Water Quality Objectives" dated July 1994, as amended.*

****as disposal of process waste of the water treatment plants (e.g., waste brine from the ion exchanger, waste filtrate / concentrate from the filters / membranes) to the Midhurst sewage treatment works occurs. The minimum sampling frequency corresponding to the specific constituent of the waste brine / filtrate / concentrate may be modified / increased in writing at the discretion of the District Manager as necessary.*

^{4A} OCWA was granted a deviation for these Schedule D requirements from the Ministry of the Environment on July 23, 2025. The deviation permitted is to sample Total Phosphorus and Dissolved Reactive Phosphorus on a weekly basis from a 24 hour composite sample.

*Note: Under ECA 8941-C8ML6V composite samples were taken as 8 hour composites on a weekly basis and were not tested for Dissolved Reactive Phosphorus, TKN, parameters under *** above, or Acute lethality to Rainbow trout and daphnia magna.*

The following tables outline the effluent objectives and limits at the Midhurst Valley Interim WWTP as per the ECA.

Table 6: Environmental Compliance Approval Final Effluent Compliance Limits- as per ECA 8524-D7MLJN Schedule C

Parameter	Averaging Calculator	Concentration Limits
CBOD ₅	Monthly Average Effluent Concentration	15.0 mg/L
Total Suspended Solids	Monthly Average Effluent Concentration	15.0 mg/L
Total Phosphorus	Monthly Average Effluent Concentration	0.08 mg/L
Total Ammonia Nitrogen	Monthly Average Effluent Concentration	2.0 mg/L (May 1 – Oct 31) 3.5 mg/L (Nov 1 – Apr 30)
<i>E.coli</i>	Monthly Geometric Mean Density	100 CFU/100mL
Toxicity to Rainbow Trout and <i>Daphnia magna</i>	Single Sample Result	Non-acutely lethal (no more than 50% mortality)**
pH	Single Sample Result	Between 6.0 – 9.5 inclusive

Note: CBOD₅ is Carbonaceous Biochemical Oxygen Demand

*** as disposal of process waste of the water treatment plants (e.g., waste brine from the ion exchanger, waste filtrate / concentrate from the filters / membranes) to the Midhurst sewage treatment works occurs.*

*Note: Under ECA 8941-C8ML6V samples were not tested for Toxicity to Rainbow Trout and *Daphnia magna*. All other limits remained the same.*

Table 7: Environmental Compliance Approval Final Effluent Compliance Objectives- as per ECA 8524-D7MLJN Schedule B

Parameter	Averaging Calculator	Concentration Objectives
CBOD ₅	Monthly Average Effluent Concentration	10.0 mg/L
Total Suspended Solids	Monthly Average Effluent Concentration	10.0 mg/L
Total Phosphorus	Monthly Average Effluent Concentration	0.03 mg/L
Total Ammonia Nitrogen	Monthly Average Effluent Concentration	1.0 mg/L (May 1 – Oct 31) 2.0 mg/L (Nov 1 – Apr 30)
Total Inorganic Nitrogen	Monthly Average Effluent Concentration	<15.4 mg/L
<i>E.coli</i>	Monthly Geometric Mean Density	<100 CFU/100mL
Toxicity to Rainbow Trout and <i>Daphnia magna</i>	Single Sample Result	Non-acutely lethal**
pH	Single Sample Result	6.5 – 8.5 inclusive

Note: CBOD₅ is Carbonaceous Biochemical Oxygen Demand

*** as disposal of process waste of the water treatment plants (e.g., waste brine from the ion exchanger, waste filtrate / concentrate from the filters / membranes) to the Midhurst sewage treatment works occurs.*

Note: Under ECA 8941-C8ML6V samples were not tested for Toxicity to Rainbow Trout and Daphnia magna. All other objectives remained the same.

3.2 Effluent Monitoring Data: Summary and Interpretation of Reporting Year and Comparison to Objectives and Limits

A review of the effluent monitoring data, shows that the following parameters were within the objectives (as applicable) and limits set out in the most current ECA for the duration of the 2025 reporting period:

- CBOD₅ monthly average effluent concentration
- Total Suspended Solids monthly average effluent concentration
- Total Ammonia Nitrogen monthly average effluent concentration
- pH, inclusive, at all times
- *E. Coli* monthly geometric mean density

A review of the effluent monitoring data, during the reporting period, shows that the following parameter was not within the limits set out in the most current ECA for three months in the reporting period and were reportable as non-compliance events with the ECA:

- Total Phosphorus monthly average effluent concentration – May, June, and July 2025
 - Explanations for these exceedances include: Increasing and decreasing the PAX dosage for various reasons to optimize the process, and supernate from the sludge tank high in solids carrying over to influent.
 - Throughout the year OCWA operations worked with the design team and engineers on process of optimization, balancing nutrients in MLSS, finding optimal chemical dosages, wasting rates and return rates.
 - All Total Phosphorus exceedances were verbally reported to the MECP Spills Action Centre and District Office, followed by written notification, in accordance with the reporting requirements of the ECA.

It should be noted that as per the ECA, the objectives are non-enforceable design objectives to be used as a mechanism to trigger corrective action proactively and voluntarily before environmental impairment occurs. Exceedances of objectives is not reportable.

The following tables summarize monthly and annual data in comparison to the applicable ECA objectives and limits for the reporting period. Effluent samples which were taken between

January and May of 2025 were taken by H2Flow. OCWA began taking effluent samples in an official capacity as of June 2025.

Table 8. Effluent Sampling Results: CBOD5 Concentration

Timeframe	Average (mg/L)	Within Limits? (15.0 mg/L)	Within Objectives? (10.0 mg/L)
January	<5.50	Yes	Yes
February	<7.00	Yes	Yes
March	4.75	Yes	Yes
April	<4.00	Yes	Yes
May	<4.75	Yes	Yes
June	<4.50	Yes	Yes
July	<5.40	Yes	Yes
August	<4.00	Yes	Yes
September	<9.50	Yes	Yes
October	<4.00	Yes	Yes
November	<4.00	Yes	Yes
December	<4.00	Yes	Yes
2025	<5.06	Yes	Yes

**As per the ECA, CBOD₅ Concentration Averaging Calculator is a Monthly Average Effluent Concentration*

Table 9. Effluent Sampling Results: Total Suspended Solids Concentration

Timeframe	Average (mg/L)	Within Limits? (15.0 mg/L)	Within Objectives? (10.0 mg/L)
January	<2.25	Yes	Yes
February	<3.25	Yes	Yes
March	<2.50	Yes	Yes
April	<2.20	Yes	Yes
May	4.25	Yes	Yes
June	<3.25	Yes	Yes
July	<2.40	Yes	Yes
August	<2.00	Yes	Yes
September	<2.00	Yes	Yes
October	<2.00	Yes	Yes
November	<2.25	Yes	Yes
December	<2.80	Yes	Yes
2025	<2.58	Yes	Yes

**As per the ECA, TSS Concentration Averaging Calculator is a Monthly Average Effluent Concentration*

Table 10. Effluent Sampling Results: Total Phosphorus Concentration

Timeframe	Average	Within Limits?	Within Objectives?
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	(mg/L)	(0.08 mg/L)	(0.03 mg/L)
January	<0.03	Yes	Yes
February	<0.04	Yes	No
March	<0.03	Yes	Yes
April	<0.04	Yes	No
May	0.09 ^{10A}	No	No
June	0.15 ^{10B}	No	No
July	<0.09 ^{10C}	No	No
August	<0.06	Yes	No
September	0.06	Yes	No
October	<0.03	Yes	Yes
November	<0.04	Yes	No
December	<0.03	Yes	Yes
2025	<0.06	Yes	No

**As per the ECA, TP Concentration Averaging Calculator is a Monthly Average Effluent Concentration*

^{10A} May 2025: Exceedance verbally reported and notification sent to MECP Inspector on March 25, 2026. Exceedance not caught by PCT until drafting annual report.

^{10B} June 2025: Exceedance verbally reported to MECP Inspector on July 11th and notification sent on July 14, 2025.

^{10C} July 2025: Exceedance verbally reported to MECP Inspector on August 14th and notification sent on August 20, 2025.

Table 11. Effluent Sampling Results: Total Ammonia Nitrogen Concentration

Timeframe	Average (mg/L)	Within Limits?	Within Objectives?
		2.0 mg/L (May 1 - Oct 31) 3.5 mg/L (Nov 1 - Apr 30))	1.0 mg/L (May 1 - Oct 31) 2.0 mg/L (Nov 1 - Apr 30))
January	<0.13	Yes	Yes
February	<0.23	Yes	Yes
March	<0.10	Yes	Yes
April	<0.10	Yes	Yes
May	<0.10	Yes	Yes
June	<0.10	Yes	Yes
July	<0.10	Yes	Yes
August	<0.10	Yes	Yes
September	<0.10	Yes	Yes
October	<0.10	Yes	Yes
November	<0.10	Yes	Yes
December	<0.10	Yes	Yes
2025	<0.11	Yes	Yes

**As per the ECA, TAN Concentration Averaging Calculator is a Monthly Average Effluent Concentration*

Table 12. Effluent Sampling Results: *E.Coli* Concentration

Timeframe	Average (mg/L)	Within Limits? (<100 CFU/100 mL)	Within Objectives? (100 CFU/100 mL)
January	2.0	Yes	Yes
February	2.0	Yes	Yes
March	2.0	Yes	Yes
April	2.0	Yes	Yes
May	2.0	Yes	Yes
June	2.0	Yes	Yes
July	2.0	Yes	Yes
August	2.0	Yes	Yes
September	2.0	Yes	Yes
October	2.0	Yes	Yes
November	2.0	Yes	Yes
December	2.0	Yes	Yes
2025	2.0	Yes	Yes

**As per the ECA, E.Coli Concentration Averaging Calculator is a Monthly Geometric Mean Density*

Table 13. Effluent Sampling Results: pH

Timeframe	Average (mg/L)	Within Limits? (6.0-9.5)	Within Objectives? (6.5-8.5)
January	6.82	Yes	Yes
February	7.06	Yes	Yes
March	6.81	Yes	Yes
April	7.13	Yes	Yes
May	6.81	Yes	Yes
June	7.60	Yes	Yes
July	7.36	Yes	Yes
August	7.22	Yes	Yes
September	7.55	Yes	Yes
October	7.51	Yes	Yes
November	7.03	Yes	Yes
December	7.34	Yes	Yes

The following table represents parameters that do not have objectives and limits in the ECA but are required to be sampled as part of the monitoring program. A summary of the monthly sampling results is included in the table below.

Table 14: Additional Effluent Sampling Results: Dissolved Reactive Phosphorus, Nitrate as Nitrogen, Nitrite as Nitrogen, and Temperature

Month	Monthly Average Concentration			
	Dissolved Reactive Phosphorus	Nitrate as Nitrogen (mg/L)	Nitrite as Nitrogen (mg/L)	Temperature
January ^{14A}	N/A*	34.13	0.10	9.63
February ^{14A}	N/A*	35.55	0.11	11.43
March ^{14A}	N/A*	32.63	<0.09	6.93
April ^{14A}	--	42.08	0.08	7.40
May ^{14A}	--	27.60	0.10	16.70
June	--	20.10	0.10	25.00
July	<0.05	14.80	<0.03	23.52
August	<0.03	13.48	<0.03	19.05
September	<0.03	13.18	<0.04	20.98
October	<0.03	14.42	<0.03	17.94
November	<0.03	16.80	<0.03	15.33
December	<0.03	15.50	<0.05	10.60

* Effluent sampling for Dissolved Reactive Phosphorus was not applicable under ECA 8941-C8ML6V, which was in effect until March 4, 2025.

^{14A} Effluent samples collected by H2Flow

3.3 Success and Adequacy of the System

In 2025, the Midhurst Valley WWTP produced effluent with the following removal rates:

Parameter	Average Removal Rate for 2025
CBOD ₅	98.30%
Total Suspended Solids	99.30%
Total Phosphorus	99.33%
Total Ammonia Nitrogen	99.78%

During the reporting period, Midhurst Valley WWTP provided overall effective wastewater treatment, producing final effluent with average removal rates of over 98%.

Based on the monitoring program and effluent quality data, Midhurst Valley WWTP provided effective treatment and complied with all effluent compliance limits during the reporting period; with the exception of Total Phosphorus in the months of May, June and July 2025.

Currently, the works is running adequately and successfully to treat and dispose of final effluent that meets ECA standards. The influent loading to the facility increased between 2024 and 2025.

Despite this increase in loading, the facility maintained high removal efficiencies for all monitored parameters.

3.4 Effluent Flow: Summary and Interpretation of Reporting Year

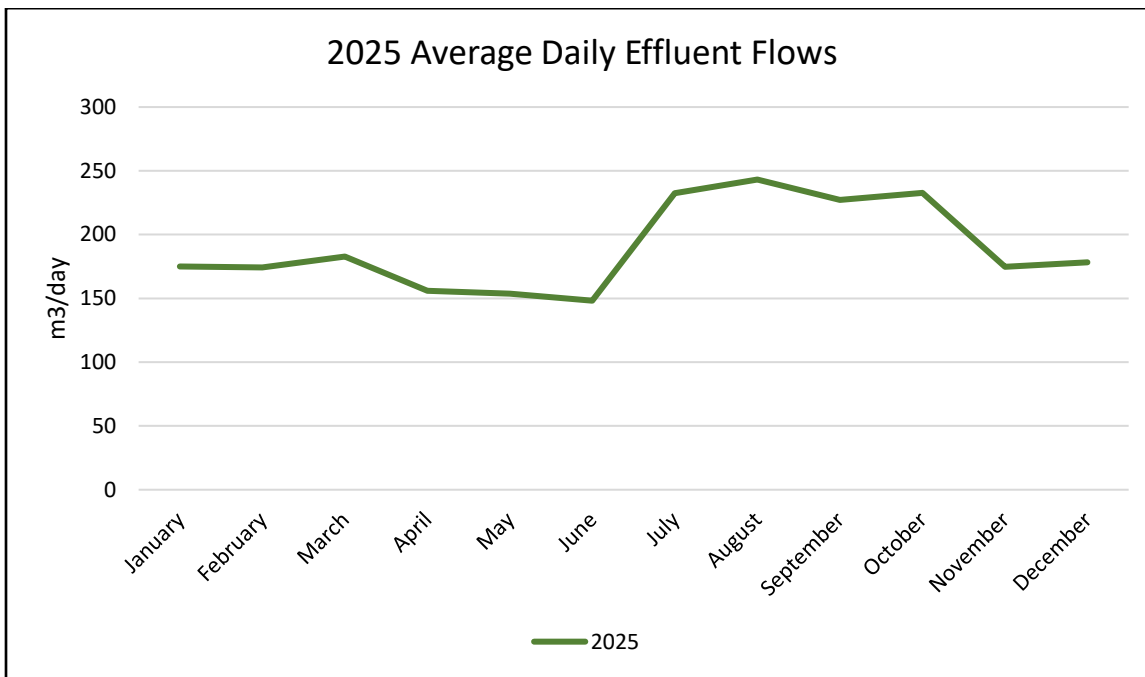
The following table outlines the effluent flow data for 2025:

Table 16: 2025 Effluent Flow Data

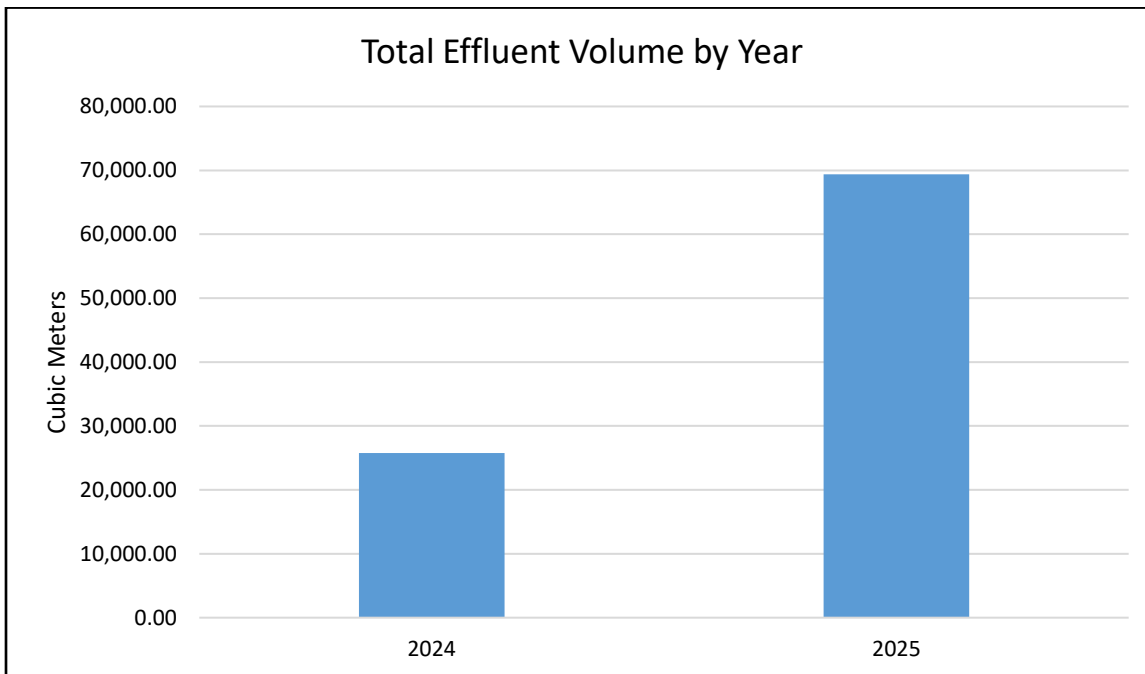
Timeframe	Average Daily Flow (m³/day)	Peak Flow (m³/day)	Total Flow (m³/day)
January	175.08	279.80	5,427.46
February	174.18	231.30	4,877.15
March	182.74	346.00	5,664.79
April	155.84	193.00	4,675.19
May	153.64	189.00	4,762.96
June	148.20	177.00	4,445.98
July	232.39	389.00	7,203.97
August	243.16	327.00	7,537.96
September	227.18	341.50	6,815.47
October	232.79	297.50	7,216.45
November	174.89	256.00	5,246.70
December	178.31	251.00	5,527.70
2025	190.14	389.00	69,401.78

The average effluent flow for 2025 was 190.14 m³/day. The month with the highest total flow volume occurred in August (7,537.96 m³ produced) and the day with the highest daily peak flow occurred on July 1, 2025 with 389.00 m³/day. The total effluent volume produced at the Midhurst Valley Interim WWTP in 2025 was 69,401.78 m³.

Graph 2: Average Daily Effluent Flows during Reporting Period



Graph 3: Effluent Volume by Year



Note: In 2024 effluent wasn't being discharged until July.

4. Operating Issues and Corrective Actions

Where ECA 8524-D7MLJN, Section 12.4(c) requires:

“a summary of all operating issues encountered and corrective actions taken;”

During the reporting period, the following operational issues were experienced:

Issue #	Operating Issue	Corrective Actions Taken	Status
1	Headworks screening system plugging and overflow - 2 mm rotary screens frequently plugged and overloaded; overflows occurred within the headworks building. Issue reported to Consultant (TYlin).	- Interim screen installed in influent pipe upstream of headworks to capture large debris. - Concrete containment barrier installed along interior walls to prevent overflows from exiting the building. Flood floor alarm also installed. - Maintenance hole upstream of headworks cleaned by VAC truck weekly or as required.	Screens continue to overflow periodically, contained within building; Screen installed in ongoing coordination with Consultant to address screen performance deficiencies.
2	MBR Skid #3 membrane 14-day performance run halted due to performance concerns.	- Performance run stopped. - Skid #3 isolated and taken offline. - Troubleshooting initiated with membrane supplier and design engineer.	Skid #3 remain offline pending resolution.-.
3	Total Inorganic Nitrogen (TIN) objective exceedances - TIN monthly average exceeded objective (15.4 mg/L) until July 16, 2025.	- Aeration rates adjusted. - Internal recycle flows optimized. - Chemical dosing refined to support nutrient removal.	TIN stabilized after mid-July; majority of results below objective.
4	Inflow and Infiltration (I&I)	SCS Consulting Inc. re-instated/adjusted Bulkhead plugs	Operations continuing to monitor.

			Ongoing coordination with SCS Consulting Inc.
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5. Repair and Maintenance Activities

ECA 8524-D7MLJN, Section 12.4.d. requires:

“a summary of all normal and emergency repairs and maintenance activities carried out on any major structure, equipment, apparatus or mechanism forming part of the Works;”

5.1 Work Management System

A computerized Work Management System (WMS) is utilized to schedule and document maintenance activities in the headworks and pumping station. Once OCWA is the Operating Authority for the entire system, all aspects of the Works will be added to the WMS. The WMS allows users to:

- Enter detailed asset information
- Generate and process work orders
- Access maintenance and inspection procedures
- Plan, schedule, and document all asset related tasks and activities
- Access maintenance records and asset histories

Work Orders are automatically generated and assigned to applicable Operations staff.

5.2 Preventative Maintenance

The completed preventative maintenance tasks during the reporting period include:

- Headworks Grit Screen Cleaning
- Maintenance Hole Bar Screen Cleaning
- Wet Well Cleaning
- Pump Inspection
- Wear Rings and Impeller Inspection
- Backflow preventer testing
- Probe Analyzer calibration
- Flow Meter calibration

5.3 Emergency Repairs & Improvements

The following emergency repairs and improvements were made during the reporting period:

- Installation of barscreen in influent pipe (maintenance hole)prior to headworks
- Temporary heat trace line installed on sludge storage decant pipe

6. Quality Assurance and Control Measures

Where ECA 8524-D7MLJN, Section 12.4(e) requires:

“a summary of any effluent quality assurance or control measures undertaken;”

Quality assurance and control measures undertaken during the reporting period include adherence to provincial regulations, use of accredited laboratories, operation of the system by licensed Operators, scheduled sampling and analysis, in-house laboratory analysis and calibration of equipment. The sections below provide further details of these measures.

6.1 Adherence to Provincial Regulations

The Ontario Clean Water Agency operates the Midhurst Valley Interim WWTP in accordance with provincial regulations and the Environmental Compliance Approval where applicable in its interim capacity. OCWA, with the assistance of H2Flow, operates the Midhurst Valley Interim WWTP in accordance with provincial regulations and the Environmental Compliance Approval where applicable in its interim capacity.

6.2 Use of Accredited Laboratories

Analytical tests to monitor the effluent quality are conducted by a laboratory audited by the Canadian Association for Laboratory Accreditation Inc. (CALA) and accredited by the Standards Council of Canada (SCC). Accreditation ensures that the laboratory has acceptable laboratory protocols and test methods in place. It also requires the laboratory to provide evidence and assurances of the proficiency of the analysts performing the test methods. During the reporting period, all chemical sample analyses were conducted by SGS (Lakefield) Canada Inc.

6.3 Operation by Licensed Operators

The WWTP was operated and maintained by licensed Operators. The mandatory licensing program for operators of sewage treatment facilities in Ontario is regulated under the Ontario Water Resources Act (OWRA) Regulation 435/93 and Ontario Regulation 129/04. A Licensed individual has successfully passed the licensing exam and meets the education and experience requirements set out in the regulation.

6.4 Sampling and Analysis

The Ontario Clean Water Agency followed a sampling and analysis schedule that meets the requirements of the ECA, with exception of the following incident:

- July 23rd and 30th, 2025: Due to operational and PCT oversight the weekly effluent samples were not tested for Dissolved Reactive Phosphorus for the weeks of July 23rd and July 30th, 2025, due to the use of an outdated chain of custody. Weekly sampling had been completed for all other effluent parameters. Outdated chains of custody were disposed of and replaced with the correct version. Operators were reminded of the sampling requirements as per the ECA, Section 9, and sampling schedules were verified to ensure the sampling requirements were listed correctly. Verbal notification was provided to the MECP Inspector on August 11, 2025, followed by written notification on August 12, 2025.

All other required samples were collected in accordance with the monitoring schedule.

6.5 In-House Analysis

In-house analysis is conducted by Licensed Operators for monitoring purposes using Standard Methods. The data generated from these tests is used to determine the treatment efficiency while maintaining process control. All in-house monitoring equipment is calibrated based on the manufacturer's recommendations. The Operators of the facility continue to use their expertise in order to meet our objective of no exceedances of the ECA Effluent Compliance Limits and OCWA will continue to make best efforts to meet the ECA Effluent Objectives.

6.6 Calibrations

Third-party and in-house calibrations were completed on various equipment and monitoring and analysis items as required based on manufacturer's recommendations. Refer to Section 7 for more information regarding calibration of monitoring equipment.

7. Calibration & Maintenance – Monitoring Equipment

Where ECA 8524-D7MLJN, Section 12.4(f) requires:

"a summary of the calibration and maintenance carried out on all Influent and Final Effluent monitoring equipment to ensure that the accuracy is within the tolerance of that equipment as required in this Approval or recommended by the manufacturer;"

The flow meters used to measure the raw sewage were successfully calibrated by FLOWMETRIX Technical Services on June 4, 2025. A portable Hach DR900 unit was calibrated by Indus Control on July 23, 2025. A copy of the calibration records can be found in **Appendix C**.

8. Effluent Design Results and Efforts

Where ECA 8524-D7MLJN, Section 12.4(g) requires:

“a summary of efforts made to achieve the design objectives in this Approval, including an assessment of the issues and recommendations for pro-active actions if any are required under the following situations:

i. when any of the design objectives is not achieved more than 50% of the time in a year, or there is an increasing trend in deterioration of Final Effluent quality;

ii. when the Annual Average Daily Influent Flow reaches 80% of the Rated Capacity;”

Throughout the reporting period, best efforts were made to achieve the design objectives in the ECA. Visual inspections were conducted regularly to ensure that the effluent was essentially free of floating and settleable solids, and did not contain oil or any other substance in amounts sufficient to create a visible film or sheen or foam or discolouration. Staff routinely monitored plant effluent quality and adjusted operations to optimize the treatment process to maximize treatment effectiveness and efficiency.

The following parameters were within the ECA Objectives for 100% of the time in the reporting period:

- Carbonaceous Biochemical Oxygen Demand (CBOD₅)
- Total Suspended Solids (TSS)
- Total Ammonia Nitrogen (TAN)
- E.coli
- pH concentration

The annual Total Phosphorus Effluent Objective was achieved for the majority of the year with the exception of May, June and July 2025. These objective exceedances were due to operations working through the process of optimization, balancing nutrients in MLSS, finding optimal chemical dosages, wasting rates and return rates. The Annual Average Daily Influent Flow did not reach 80% of the Rated Capacity during the reporting period. *See section 3.2 for details.*

9. Sludge Management

Where ECA 8524-D7MLJN, Section 12.4(h) requires:

“a tabulation of the volume of sludge generated, an outline of anticipated volumes to be generated in the next reporting period and a summary of the locations to where the sludge was disposed;”

During the 2025 reporting period, sludge generated at the Midhurst Valley Interim WWTP was hauled off-site by a licensed hauler and disposed of at an approved facility. A summary of sludge hauling activities is provided in Table 16.

Table 17: Snow Valley Highlands WWTP Sludge Haulage 2025

Date	Facility Transferred To	Hauler	Volume Hauled (m ³)
February 6, 2025	ROHES Lagoons	ROHES	36.0
February 7, 2025	ROHES Lagoons	ROHES	200.0
June 16, 2025	ROHES Lagoons	ROHES	330.0
September 12, 2025	ROHES Lagoons	ROHES	242.0
September 15, 2025	ROHES Lagoons	ROHES	42.0
November 13, 2025	ROHES Lagoons	ROHES	252.0
2025 Total Volume Hauled			1,102.00

A total of 1,102.00 m³ of sludge was hauled from the facility in 2025. All sludge was transported by ROHES Environmental and disposed of at the ROHES Lagoons, an approved facility. All sludge handling and disposal activities were completed in accordance with applicable regulatory requirements.

Due to limited historical data and the ongoing build-out of the subdivision, a reliable projection of sludge generation for 2026 cannot yet be developed. As additional years of data become available, trend-based forecasting will be incorporated into future annual reports.

10. Community Complaints

Where ECA 8524-D7MLJN, Section 12.4(i) requires:

“a summary of any complaints received and any steps taken to address the complaints;”

There was one complaint from a Midhurst Valley resident on May 19, 2025 regarding a sewer backup. An OCWA operator responded and checked the manhole downstream of the resident’s

home to find unobstructed flow. The operator checked for debris and blockages. The resident followed up with the developer regarding the issue.

11. By-pass, Overflow, or Abnormal Discharge Events Summary

Where ECA 8524-D7MLJN, Section 12.4(j) requires:

“a summary of all Bypasses, Overflows, other situations outside Normal Operating Conditions and spills within the meaning of Part X of EPA and abnormal discharge events;”

11.1 By-pass Events

There were no by-pass events during the reporting period.

11.2 Overflows

There were no overflow events during the reporting period.

11.3 Abnormal Discharge Events and Spills

There were five (5) spill events during the reporting period, which are summarized below.

- 1) March 16, 2025: SAC incident # 1-J2HPWM
 - A metal coupling inside the headworks building blew off a pipe that connects the raw sewage EQ transfer pumps to the EQ tank. All required verbal reporting to SAC, the Township of Springwater and the MoH was completed on March 16, 2025, written notification was sent on March 18, 2025. ROHES responded for clean-up and to pump down the wet well until repairs could be completed. Representative samples of the raw wastewater were taken and sent for analysis. Sample results were sent to all parties on March 25, 2025.
- 2) July 2, 2025: SAC incident # 1-OOCBF5
 - On July 2, 2025 operations noticed a leak of sludge coming from the sludge pumping hose on the outside of the sludge containment tank. The operator confirmed that the sludge pumps were not running, and the volume of sludge leaked was what was contained within the hose after the previous sludge haul. It was determined that sun exposure could have been the cause of the crack in the hose. All required verbal reporting to SAC, the Township of Springwater and the MoH was completed on July 2, 2025, written notification was sent on July 3, 2025. Clean up was conducted by OCWA, as the volume was relatively small. Representative samples of the raw

wastewater were taken and sent for analysis. Sample results were sent on July 15, 2025.

3) July 15, 2025: SAC incident # 1-P2ZF4Q

- On July 15, 2025 operations noticed an overflow from the door of the headworks building. The equipment was not running at that time and the overflow had stopped. All required verbal reporting to SAC, the Township of Springwater and the MoH was completed on July 15, 2025, written notification was sent on July 21, 2025. ROHES responded for clean-up. Representative samples of the raw wastewater were taken and sent for analysis. Sample results were sent on July 24, 2025.

4) September 17, 2025: SAC incident # 1-PILXF

- On September 17, 2025 operations noticed an overflow from the door of the headworks building. The equipment was not running at that time and the overflow had stopped. All required verbal reporting to SAC, the Township of Springwater and the MoH was completed on September 17, 2025, written notification was sent on September 19, 2025. OCWA cleaned up and disposed of the raw sewage. Representative samples of the raw wastewater were taken and sent for analysis. Sample results were sent on September 24, 2025.

5) October 26, 2025: SAC incident # 1-PP66IX

- On October 26, 2025 operations noticed an overflow from the door of the headworks building. All required verbal reporting to SAC, the Township of Springwater and the MoH was completed on October 26, 2025. Written notification was sent on October 27, 2025. ROHES responded for clean-up. Representative samples of the raw wastewater were taken and sent for analysis. Sample results were sent on November 4, 2025.

All spills were reported to SAC, the Township of Springwater, and the Medical Officer of Health within required timelines

12. Notice of Modification to Sewage Works

Where ECA 8524-D7MLJN, Section 12.4(k) requires:

“A summary of all Notice of Modification to Sewage Works completed under Paragraph 1.d. of Condition 11, including a report on the status of implementation of all modification;”

A Director’s notification was sent on December 15, 2025 in regards to the commissioning of filter skid 3 and the initial performance run. The performance run was stopped due to issues with the filter and disruptions to the overall process.

13. Conformance to Procedure F-5-1

Where ECA 8524-D7MLJN, Section 12.4(l) requires:

“a summary of efforts made to achieve conformance with Procedure F-5-1 including but not limited to projects undertaken and completed in the sanitary sewer system that result in overall Bypass/Overflow elimination including expenditures and proposed projects to eliminate Bypass/Overflows with estimated budget forecast for the year following that for which the report is submitted.”

During the 2025 reporting period, there were no incidents of a bypass or overflow within the Midhurst Valley Interim Wastewater Treatment Plant and therefore no proposed projects to eliminate bypasses or overflows are forecasted for the 2026 reporting period for the Midhurst Valley Interim Wastewater Treatment Plant.

14. Proposed Works: Construction and Commissioning Updates

Where ECA 8524-D7MLJN, Section 12.4(m) requires:

“any changes or updates to the schedule for the completion of construction and commissioning operation of major process(es) / equipment groups in the Proposed Works.”

The Midhurst Valley Interim Wastewater Treatment Plant became operational on July 22, 2024. It is currently running at a limited capacity. The full commissioning is dependent on the growth of the local population and active flows being directed to the facility. An update on the proposed works, construction and commissioning will be provided once the Works is fully commissioned.

15. Deviations from Monitoring Schedule

Where ECA 8524-D7MLJN, Section 12.4(n) requires:

“a summary of any deviation from the monitoring schedule and reasons for the current reporting year and a schedule for the next reporting year;”

For the 2025 reporting period, weekly influent and effluent monitoring was required. The monitoring plan for 2025 indicated samples were to be collected weekly on Wednesdays.

The table below outlines deviations to the monitoring schedule for the reporting year:

Table 19. Deviations from Monitoring Schedule

2025 Annual Performance Report

The Corporation of the Township of Springwater: Midhurst Valley Interim Wastewater Treatment Plant
Environmental Compliance Approval Number 8941-C8ML6V (Issue Date: June 29, 2022) & 8524-D7MLJN
(Issue Date: March 5, 2025)

Reporting Period: January 1, 2025 – December 31, 2025

Scheduled Sample Date	Date Sample was Taken	Sample Type	Reason for Deviation
May 28, 2025	May 30, 2025	Weekly Raw	- Raw sample taken on the 30 th due to an error with the sampler.
September 17, 2025	September 18, 2025	Weekly Raw and Effluent	- Samples taken on the 18 th due to a spill at the plant on the 17 th .
November 5, 2025	Sample not taken	Monthly Sludge Grab*	- Sample not taken in the month of November due to very low quantity available.
November 12, 2025	November 13, 2025	Weekly Raw and Effluent	- Samples taken on the 13 th due to sampler being moved by mistake.
December 30, 2025	December 29, 2025	Weekly Raw and Effluent	- Samples taken on the 29 th due to the Holiday.

**Note: It is not required to take sludge samples on a monthly basis. This is a best practice for OCWA.*

All other required samples were collected as scheduled. Please see Appendix B for the monitoring schedule for the next reporting year (2026).

2025 Annual Performance Report

Appendix A

Performance Assessment Report: Annual Flow, Influent Quality

1685 MIDHURST INTERIM WASTEWATER TREATMENT FACILITY 120003977																
	1 / 2025	2/ 2025	3/ 2025	4/ 2025	5/ 2025	6/ 2025	7/ 2025	8/ 2025	9/ 2025	10/ 2025	11/ 2025	12/ 2025	<--Total-->	<--Avg-->	<--Max-->	<-Criteria-->
Flows																
Raw Flow: Total - Raw m³/d	6,447.25	5,901.60	7,774.04	5,064.50	5,650.62	5,616.56	7,515.59	7,661.86	6,681.62	6,740.04	5,704.36	6,564.82	77,322.86			0.00
Raw Flow: Avg - Raw m³/d	207.98	210.77	268.07	174.64	182.28	187.22	250.52	247.16	222.72	217.42	196.70	211.77		214.79		516.00
Raw Flow: Max - Raw m³/d	265.50	301.70	448.42	205.34	215.44	212.22	304.91	326.32	316.01	272.73	246.44	284.10			448.42	0.00
Raw Flow: Count - Raw m³/d	31.00	28.00	29.00	29.00	31.00	30.00	30.00	31.00	30.00	31.00	29.00	31.00	360.00			0.00
Eff. Flow: Total - Eff m³/d	5,427.46	4,877.15	5,664.79	4,675.19	4,762.96	4,445.98	7,203.97	7,537.96	6,815.47	7,216.45	5,246.70	5,527.70	69,401.78			0.00
Eff. Flow: Avg - Eff m³/d	175.08	174.18	182.74	155.84	153.64	148.20	232.39	243.16	227.18	232.79	174.89	178.31		190.14		24,243.00
Eff. Flow: Max - Eff m³/d	279.80	231.30	346.00	193.00	189.00	177.00	389.00	327.00	341.50	297.50	256.00	251.00			389.00	0.00
Eff Flow: Count - Eff 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 - Eff mg/L	5.50	7.00	4.75	4.00	4.75	4.50	5.40	4.00	9.50	4.00	4.00	4.00		5.06	9.50	15.00
Eff: # of samples of cBOD5 - Eff	4.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	52.00			0.00
Loading: cBOD5 - Eff kg/d	0.963	1.219	0.868	0.623	0.730	0.667	1.255	0.973	2.158	0.931	0.700	0.713		0.96	2.16	
Biochemical Oxygen Demand: BOD5																
Raw: Avg BOD5 - Raw mg/L	363.00	611.75	429.50	350.71	297.17	250.50	168.80	195.75	191.50	199.20	257.25	211.40		291.64	611.75	0.00
Raw: # of samples of BOD5 - Raw	4.00	4.00	4.00	7.00	6.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	56.00			0.00
Percent Removal: BOD5 - Raw %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00
Total Suspended Solids: TSS																
Raw: Avg TSS - Raw mg/L	415.25	459.75	916.00	412.14	307.50	261.25	243.40	256.00	280.75	291.80	368.25	299.60		370.23	916.00	0.00
Raw: # of samples of TSS - Raw	4.00	4.00	4.00	7.00	6.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	56.00			0.00
Eff: Avg TSS - Eff mg/L	2.25	3.25	2.50	2.20	4.25	3.25	2.40	2.00	2.00	2.00	2.25	2.80		2.58	4.25	15.00
Eff: # of samples of TSS - Eff	4.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	52.00			0.00
Loading: TSS - Eff kg/d	0.394	0.566	0.457	0.343	0.653	0.482	0.558	0.486	0.454	0.466	0.394	0.499		0.49	0.65	
Percent Removal: TSS - Raw %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00
Total Phosphorus: TP																
Raw: Avg TP - Raw mg/L	11.81	12.57	25.02	10.67	6.86	7.06	4.99	4.47	6.69	6.61	7.60	5.42		8.96	25.02	0.00
Raw: # of samples of TP - Raw	4.00	4.00	4.00	7.00	6.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	56.00			0.00
Eff: Avg TP - Eff mg/L	0.03	0.04	0.03	0.04	0.09	0.15	0.09	0.06	0.06	0.03	0.04	0.03		0.06	0.15	0.08
Eff: # of samples of TP - Eff	4.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	52.00			0.00
Loading: TP - Eff kg/d	0.005	0.007	0.005	0.006	0.013	0.022	0.021	0.015	0.013	0.007	0.006	0.006		0.01	0.02	
Percent Removal: TP - Raw %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00
Nitrogen Series																
Raw: Avg TKN - Raw mg/L	59.45	67.83	88.53	58.83	48.68	49.70	32.22	28.85	37.98	41.40	47.28	41.14		49.93	88.53	0.00
Raw: # of samples of TKN - Raw	4.00	4.00	4.00	7.00	6.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	56.00			0.00
Eff: Avg TAN - Eff mg/L	0.13	0.23	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10		0.11	0.23	3.50
Eff: # of samples of TAN - Eff	4.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	52.00			0.00
Loading: TAN - Eff kg/d	0.022	0.039	0.018	0.016	0.015	0.015	0.023	0.024	0.023	0.023	0.017	0.018		0.02	0.04	
Eff: Avg NO3-N - Eff mg/L	34.13	35.55	32.63	42.08	27.60	20.10	14.80	13.48	13.18	14.42	16.80	15.50		23.35	42.08	0.00
Eff: # of samples of NO3-N - Eff	4.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	52.00			0.00
Eff: Avg NO2-N - Eff mg/L	0.10	0.11	0.09	0.08	0.10	0.10	0.03	0.03	0.04	0.03	0.03	0.05		0.06	0.11	0.00
Eff: # of samples of NO2-N - Eff	4.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	52.00			0.00
Disinfection																
Eff: GMD E. Coli MPN - Eff MPN	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00				
Eff: # of samples of E. Coli MPN - Eff	8.00	8.00	8.00	10.00	8.00	8.00	10.00	8.00	8.00	10.00	8.00	10.00	104.00			0.00

2025 Annual Performance Report

Appendix B

Monitoring Schedules

2025 Laboratory Sampling Requirements
MIDHURST VALLEY INTERIM WASTEWATER TREATMENT PLANT

ECA #8941-C8ML6V, Issue Date: June 29, 2022

Works #120003977, Org #1685

Rev. 5 - 2024.12.16

JANUARY						
M	T	W	TH	F	St	Su
30-W	31	1	2	3	4	5
6	7	8-W;SL	9	10	11	12
13	14	15-W	16	17	18	19
20	21	22-W	23	24	25	26
27	28	29-W	30	31		

FEBRUARY						
M	T	W	TH	F	St	Su
					1	2
3	4	5-W;SL	6	7	8	9
10	11	12-W	13	14	15	16
17	18	19-W	20	21	22	23
24	25	26-W	27	28		

MARCH						
M	T	W	TH	F	St	Su
					1	2
3	4	5-W;SL	6	7	8	9
10	11	12-W	13	14	15	16
17	18	19-W	20	21	22	23
24	25	26-W	27	28	29	30
31						

APRIL						
M	T	W	TH	F	St	Su
	1	2-W;SL	3	4	5	6
7	8	9-W	10	11	12	13
14	15	16-W	17	18	19	20
21	22	23-W	24	25	26	27
28	29	30-W				

MAY						
M	T	W	TH	F	St	Su
			1	2	3	4
5	6	7-W;SL	8	9	10	11
12	13	14-W	15	16	17	18
19	20	21-W	22	23	24	25
26	27	28-W	29	30	31	

JUNE						
M	T	W	TH	F	St	Su
						1
2	3	4-W;SL	5	6	7	8
9	10	11-W	12	13	14	15
16	17	18-W	19	20	21	22
23	24	25-W	26	27	28	29
30						

As per ECA 8941-C8ML6V , Section 9(1) i. Weekly mean once every week; ii. Monthly means once every month

Stat Holiday/Weekend

Sample Day

W=Weekly; SL=Sludge

Sampling calendar is to be updated as facility processes are implemented

If you are NOT able to sample on the scheduled day, call your PCT as soon as possible

**** Effluent sampling is required if the facility is receiving and hauling****

2025 Laboratory Sampling Requirements
MIDHURST VALLEY INTERIM WASTEWATER TREATMENT PLANT

ECA #8941-C8ML6V, Issue Date: June 29, 2022

Works #120003977, Org #1685

Rev. 5 - 2024.12.16

JULY						
M	T	W	TH	F	St	Su
	1	2-W;SL	3	4	5	6
7	8	9-W	10	11	12	13
14	15	16-W	17	18	19	20
21	22	23-W	24	25	26	27
28	29	30-W	31			

AUGUST						
M	T	W	TH	F	St	Su
				1	2	3
4	5	6-W;SL	7	8	9	10
11	12	13-W	14	15	16	17
18	19	20-W	21	22	23	24
25	26	27-W	28	29	30	31

SEPTEMBER						
M	T	W	TH	F	St	Su
1	2	3-W;SL	4	5	6	7
8	9	10-W	11	12	13	14
15	16	17-W	18	19	20	21
22	23	24-W	25	26	27	28
29	30					

OCTOBER						
M	T	W	TH	F	St	Su
		1-W;SL	2	3	4	5
6	7	8-W	9	10	11	12
13	14	15-W	16	17	18	19
20	21	22-W	23	24	25	26
27	28	29-W	30	31		

NOVEMBER						
M	T	W	TH	F	St	Su
					1	2
3	4	5-W;SL	6	7	8	9
10	11	12-W	13	14	15	16
17	18	19-W	20	21	22	23
24	25	26-W	27	28	29	30

DECEMBER						
M	T	W	TH	F	St	Su
1	2	3-W;SL	4	5	6	7
8	9	10-W	11	12	13	14
15	16	17-W	18	19	20	21
22	23-W	24	25	26	27	28
29	30-W	31				

As per ECA 8941-C8ML6V , Section 9(1) i. Weekly mean once every week; ii. Monthly means once every month

Stat Holiday/Weekend

Sample Day

W=Weekly; SL=Sludge

Sampling calendar is to be updated as facility processes are implemented

If you are NOT able to sample on the scheduled day, call your PCT as soon as possible

**** Effluent sampling is required if the facility is receiving and hauling****

2026 Laboratory Sampling Requirements
MIDHURST VALLEY INTERIM WASTEWATER TREATMENT PLANT
 ECA #8524-D7MLIN, Issue Date: March 5, 2025
 Works #120003977, Org #1685
 Rev. 0 - 2025.12.19

JANUARY						
M	T	W	TH	F	St	Su
			1	2	3	4
5	6- W;M;SL	7	8	9	10	11
12	13- W	14	15	16	17	18
19	20- W	21	22	23	24	25
26	27- W	28	29	30	31	

FEBRUARY						
M	T	W	TH	F	St	Su
						1
2	3- W;M;SL	4	5	6	7	8
9	10- W;SA	11	12	13	14	15
16	17- W	18	19	20	21	22
23	24- W	25	26	27	28	

MARCH						
M	T	W	TH	F	St	Su
						1
2	3- W;M;SL	4	5	6	7	8
9	10- W	11	12	13	14	15
16	17- W	18	19	20	21	22
23	24- W	25	26	27	28	29
30	31- W					

APRIL						
M	T	W	TH	F	St	Su
		1	2	3	4	5
6	7- W;M;SL	8	9	10	11	12
13	14- W	15	16	17	18	19
20	21- W	22	23	24	25	26
27	28- W	29	30			

MAY						
M	T	W	TH	F	St	Su
				1	2	3
4	5- W;M;SL	6	7	8	9	10
11	12- W	13	14	15	16	17
18	19- W	20	21	22	23	24
25	26- W	27	28	29	30	31

JUNE						
M	T	W	TH	F	St	Su
1	2- W;M;SL	3	4	5	6	7
8	9- W	10	11	12	13	14
15	16- W	17	18	19	20	21
22	23- W	24	25	26	27	28
29	30- W					

As per ECA 8941-C8ML6V , Section 9(1) i. Weekly mean once every week; ii. Monthly means once every month

Stat Holiday/Weekend
Sample Day

W=Weekly; SL=Sludge

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If you are NOT able to sample on the scheduled day, call your PCT as soon as possible

**** Effluent sampling is required if the facility is receiving and hauling****

2026 Laboratory Sampling Requirements
MIDHURST VALLEY INTERIM WASTEWATER TREATMENT PLANT

ECA #8524-D7MLIN, Issue Date: March 5, 2025

Works #120003977, Org #1685

Rev. 0 - 2025.12.19

JULY						
M	T	W	TH	F	St	Su
		1	2	3	4	5
6	7- W;M;SL	8	9	10	11	12
13	14- W	15	16	17	18	19
20	21- W	22	23	24	25	26
27	28- W	29	30	31		

AUGUST						
M	T	W	TH	F	St	Su
					1	2
3	4- W;M;SL	5	6	7	8	9
10	11- W;SA	12	13	14	15	16
17	18- W	19	20	21	22	23
24	25- W	26	27	28	29	30
31						

SEPTEMBER						
M	T	W	TH	F	St	Su
	1- W;M;SL	2	3	4	5	6
7	8- W	9	10	11	12	13
14	15- W	16	17	18	19	20
21	22- W	23	24	25	26	27
28	29- W	30				

OCTOBER						
M	T	W	TH	F	St	Su
			1	2	3	4
5	6- W;M;SL	7	8	9	10	11
12	13- W	14	15	16	17	18
19	20- W	21	22	23	24	25
26	27- W	28	29	30	31	

NOVEMBER						
M	T	W	TH	F	St	Su
						1
2	3- W;M;SL	4	5	6	7	8
9	10- W	11	12	13	14	15
16	17- W	18	19	20	21	22
23	24- W	25	26	27	28	29
30						

DECEMBER						
M	T	W	TH	F	St	Su
	1- W;M;SL	2	3	4	5	6
7	8- W	9	10	11	12	13
14	15- W	16	17	18	19	20
21	22- W	23	24	25	26	27
28	29- W	30	31			

As per ECA 8941-C8ML6V , Section 9(1) i. Weekly mean once every week; ii. Monthly means once every month

Stat Holiday/Weekend
Sample Day

W=Weekly; **SL**=Sludge

Sampling calendar is to be updated as facility processes are implemented

If you are NOT able to sample on the scheduled day, call your PCT as soon as possible

**** Effluent sampling is required if the facility is receiving and hauling****

2025 Annual Performance Report

Appendix C

Calibration Reports



Plant operator: Flowmetrix

Device information

Location	Midhurst WWTP
Device tag	Promag
Module name	K323-00
Nominal diameter	DN150 / 6"
Device name	Promag 400
Order code	5W4C1F-1N642/0
Serial number	S7073016000
Firmware version	02.01.00



Calibration

Calibration factor	1.1513
Zero point	-1.8

Verification information

Operating time (counter)	935d21h06m05s
Date/time (manually recorded)	04.06.25 09:52
Verification ID	3
Verification mode	Standard verification

Overall verification result*

 Passed	Details see next page
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*Result of the complete device functionality test via Heartbeat Technology

Confirmation

Heartbeat Verification verifies the function of the flowmeter within the specified measuring tolerance, over the useful lifetime of the device, with a total test coverage > 94 %, and complies with the requirements for traceable verification according to DIN EN ISO 9001:2008 – Section 7.6 a. (attested by TÜV-SÜD Industrieservices GmbH)

Notes

Date

Operator's signature

Inspector's signature

Plant operator: Flowmetrix

Device identification and verification identification

Serial number	S7073016000
Device tag	Promag
Verification ID	3



Sensor	✓ Passed
Shot time symmetry	✓ Passed
Hold voltage symmetry	✓ Passed
Coil current loss	✓ Passed
Coil current stability	✓ Passed
Coil resistance	✓ Passed
E1 electrode cable	✓ Passed
E2 electrode cable	✓ Passed
EPD electrode cable	✓ Passed
Sensor electronic module (ISEM)	✓ Passed
Supply voltage	✓ Passed
Internal voltages	✓ Passed
Linearity and reference voltage	✓ Passed
Offset of electrode measuring circuit	✓ Passed
Hold voltage feedback	✓ Passed
Shot voltage feedback	✓ Passed
Electronic current loss	✓ Passed
Coil circuit measurement	✓ Passed
Shot control circuit	✓ Passed
Electrode signal integrity	✓ Passed
System status	✓ Passed
I/O module	✓ Passed
Input/output 1	✓ Passed
Input/output 2	? Not done
Input/output 3	? Not done

Plant operator: Flowmetrix

Device identification and verification identification

Serial number	S7073016000
Device tag	Promag
Verification ID	3



Test item with value	Unit	Actual	Min.	Max.	Visualization
Sensor					
Shot time symmetry deviation		1.0045	0.9000	1.1000	□□□□■□□□□□
Hold voltage symmetry deviation		1.0000	0.9000	1.1000	□□□□■□□□□□
Coil current loss deviation	%	0.6382	-10.0000	10.0000	□□□□■□□□□□
Coil current offset	%	-0.08123	-0.1000	0.1000	■□□□□□□□□□
Coil current deviation	%	-0.02437	-0.1000	0.1000	□□□■□□□□□□
Coil resistance value	Ohm	68.5	50.0	240.0	■□□□□□□□□□
E1 electrode impedance	Ohm	537.18			
E2 electrode impedance	Ohm	544.60			
EPD electrode impedance	Ohm	550.81			
E1/E2 electrode impedance on E1	Ohm	574.78			
E1/E2 electrode impedance on E2	Ohm	582.27			
Sensor electronic module (ISEM)					
Supply voltage 30.0V	V	31.15	27.000	35.000	□□□□■□□□□□
Linearity and reference voltage 1		0.9996	0.9900	1.0100	□□□□■□□□□□
Linearity and reference voltage 2		0.9994	0.9900	1.0100	□□□□■□□□□□
Measuring point offset		5.4621	-100.0000	100.0000	□□□□■□□□□□
Hold voltage feedback value	%	0.88	-10.0	10.0	□□□□■□□□□□
Shot voltage feedback value	%	-0.41	-20.0	20.0	□□□□■□□□□□
Electronic current loss deviation	%	-0.27	-10.0000	10.0000	□□□□■□□□□□
Coil circuit value	%	-0.17	-1.0	1.0	□□□■□□□□□□
Shot control circuit value	%	-0.14	-10.0	10.0	□□□□■□□□□□
Electrode signal integrity deviation	%	1.23	-40.0	40.0	□□□□■□□□□□

Test item with value	Unit	Actual	Min.	Max.	Visualization
I/O module					
Output 1 value 1	mA	4.0286	3.8600	4.1400	□□□□□■□□□□
Output 1 value 2		0.0000	0.0000	0.0000	□□□□□□□□□□
Output 2 value 1		0.0000	0.0000	0.0000	□□□□□□□□□□
Output 3 value 1		0.0000	0.0000	0.0000	□□□□□□□□□□

Plant operator: Flowmetrix

Device identification and verification identification

Serial number	S7073016000
Device tag	Promag
Verification ID	3



Test item with value	Unit	Actual
Process conditions		
Volume flow value verification	l/s	0.0000
Conductivity value verification	µS/cm	-nan
Electronic temperature	°F	117.9
Current difference potential	V	-0.02464
Current potential electrode 1	V	0.1649
Current potential electrode 2	V	0.1858
Current potential electrode Pipe GND	V	0.002722



Plant operator: Flowmetrix

Device information

Location	Midhurst Valley WWTP
Device tag	FIT-0316_SLUDGE
Module name	K323-00
Nominal diameter	DN150 / 6"
Device name	Promag 400
Order code	5W4C1F-1U972/0
Serial number	T1051A16000
Firmware version	02.01.01



Calibration

Calibration factor	1.3391
Zero point	2.6

Verification information

Operating time (counter)	784d22h26m58s
Date/time (manually recorded)	04.06.25 10:02
Verification ID	3
Verification mode	Standard verification

Overall verification result*

 Passed	Details see next page
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*Result of the complete device functionality test via Heartbeat Technology

Confirmation

Heartbeat Verification verifies the function of the flowmeter within the specified measuring tolerance, over the useful lifetime of the device, with a total test coverage > 94 %, and complies with the requirements for traceable verification according to DIN EN ISO 9001:2008 – Section 7.6 a. (attested by TÜV-SÜD Industrieservices GmbH)

Notes

Date

Operator's signature

Inspector's signature

Plant operator: Flowmetrix

Device identification and verification identification

Serial number	T1051A16000
Device tag	FIT-0316_SLUDGE
Verification ID	3



Sensor	✓ Passed
Shot time symmetry	✓ Passed
Hold voltage symmetry	✓ Passed
Coil current loss	✓ Passed
Coil current stability	✓ Passed
Coil resistance	✓ Passed
E1 electrode cable	✓ Passed
E2 electrode cable	✓ Passed
EPD electrode cable	✓ Passed
Sensor electronic module (ISEM)	✓ Passed
Supply voltage	✓ Passed
Internal voltages	✓ Passed
Linearity and reference voltage	✓ Passed
Offset of electrode measuring circuit	✓ Passed
Hold voltage feedback	✓ Passed
Shot voltage feedback	✓ Passed
Electronic current loss	✓ Passed
Coil circuit measurement	✓ Passed
Shot control circuit	✓ Passed
Electrode signal integrity	✓ Passed
System status	✓ Passed
I/O module	✓ Passed
Input/output 1	✓ Passed
Input/output 2	? Not done
Input/output 3	? Not done

Plant operator: Flowmetrix

Device identification and verification identification

Serial number	T1051A16000
Device tag	FIT-0316_SLUDGE
Verification ID	3



Test item with value	Unit	Actual	Min.	Max.	Visualization
Sensor					
Shot time symmetry deviation		0.9991	0.9000	1.1000	□□□□■□□□□□
Hold voltage symmetry deviation		1.0000	0.9000	1.1000	□□□□■□□□□□
Coil current loss deviation	%	-0.05294	-10.0000	10.0000	□□□□■□□□□□
Coil current offset	%	0.0000	-0.1000	0.1000	□□□□■□□□□□
Coil current deviation	%	0.0000	-0.1000	0.1000	□□□□■□□□□□
Coil resistance value	Ohm	126.0	50.0	240.0	□□□■□□□□□□
E1 electrode impedance	Ohm	188.84			
E2 electrode impedance	Ohm	186.92			
EPD electrode impedance	Ohm	455.90			
E1/E2 electrode impedance on E1	Ohm	205.72			
E1/E2 electrode impedance on E2	Ohm	203.89			
Sensor electronic module (ISEM)					
Supply voltage 30.0V	V	31.13	27.000	35.000	□□□□■□□□□□
Linearity and reference voltage 1		0.9995	0.9900	1.0100	□□□□■□□□□□
Linearity and reference voltage 2		0.9995	0.9900	1.0100	□□□□■□□□□□
Measuring point offset		5.3308	-100.0000	100.0000	□□□□■□□□□□
Hold voltage feedback value	%	0.41	-10.0	10.0	□□□□■□□□□□
Shot voltage feedback value	%	-0.69	-20.0	20.0	□□□□■□□□□□
Electronic current loss deviation	%	-0.29	-10.0000	10.0000	□□□□■□□□□□
Coil circuit value	%	0.055	-1.0	1.0	□□□□■□□□□□
Shot control circuit value	%	-0.12	-10.0	10.0	□□□□■□□□□□
Electrode signal integrity deviation	%	-3.50	-40.0	40.0	□□□□■□□□□□

Test item with value	Unit	Actual	Min.	Max.	Visualization
I/O module					
Output 1 value 1	mA	5.8559	5.6782	5.9949	□□□□□■□□□□
Output 1 value 2		0.0000	0.0000	0.0000	□□□□□□□□□□
Output 2 value 1		0.0000	0.0000	0.0000	□□□□□□□□□□
Output 3 value 1		0.0000	0.0000	0.0000	□□□□□□□□□□

Plant operator: Flowmetrix

Device identification and verification identification

Serial number	T1051A16000
Device tag	FIT-0316_SLUDGE
Verification ID	3



Test item with value	Unit	Actual
Process conditions		
Volume flow value verification	l/s	11.4743
Conductivity value verification	µS/cm	-nan
Electronic temperature	°F	106.3
Current difference potential	V	0.01053
Current potential electrode 1	V	0.08182
Current potential electrode 2	V	0.07255
Current potential electrode Pipe GND	V	0.001849



Plant operator: Flowmetrix

Device information

Location	Midhurst WWTP
Device tag	FIT-0522_UV
Module name	K323-00
Nominal diameter	DN150 / 6"
Device name	Promag 400
Order code	5W4C1F-1U972/0
Serial number	T1051B16000
Firmware version	02.01.01

**Calibration**

Calibration factor	1.3530
Zero point	0.5

Verification information

Operating time (counter)	784d21h30m27s
Date/time (manually recorded)	04.06.25 10:05
Verification ID	3
Verification mode	Standard verification

Overall verification result*

 Passed	Details see next page
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*Result of the complete device functionality test via Heartbeat Technology

Confirmation

Heartbeat Verification verifies the function of the flowmeter within the specified measuring tolerance, over the useful lifetime of the device, with a total test coverage > 94 %, and complies with the requirements for traceable verification according to DIN EN ISO 9001:2008 – Section 7.6 a. (attested by TÜV-SÜD Industrieservices GmbH)

Notes

Date

Operator's signature

Inspector's signature

Plant operator: Flowmetrix

Device identification and verification identification

Serial number	T1051B16000
Device tag	FIT-0522_UV
Verification ID	3



Sensor	✓ Passed
Shot time symmetry	✓ Passed
Hold voltage symmetry	✓ Passed
Coil current loss	✓ Passed
Coil current stability	✓ Passed
Coil resistance	✓ Passed
E1 electrode cable	✓ Passed
E2 electrode cable	✓ Passed
EPD electrode cable	✓ Passed
Sensor electronic module (ISEM)	✓ Passed
Supply voltage	✓ Passed
Internal voltages	✓ Passed
Linearity and reference voltage	✓ Passed
Offset of electrode measuring circuit	✓ Passed
Hold voltage feedback	✓ Passed
Shot voltage feedback	✓ Passed
Electronic current loss	✓ Passed
Coil circuit measurement	✓ Passed
Shot control circuit	✓ Passed
Electrode signal integrity	✓ Passed
System status	✓ Passed
I/O module	✓ Passed
Input/output 1	✓ Passed
Input/output 2	? Not done
Input/output 3	? Not done

Plant operator: Flowmetrix

Device identification and verification identification

Serial number	T1051B16000
Device tag	FIT-0522_UV
Verification ID	3



Test item with value	Unit	Actual	Min.	Max.	Visualization
Sensor					
Shot time symmetry deviation		1.0000	0.9000	1.1000	□□□□■□□□□□
Hold voltage symmetry deviation		0.9983	0.9000	1.1000	□□□□■□□□□□
Coil current loss deviation	%	0.1240	-10.0000	10.0000	□□□□■□□□□□
Coil current offset	%	0.0000	-0.1000	0.1000	□□□□■□□□□□
Coil current deviation	%	0.01625	-0.1000	0.1000	□□□□□■□□□□
Coil resistance value	Ohm	125.4	50.0	240.0	□□□■□□□□□□
E1 electrode impedance	Ohm	187.91			
E2 electrode impedance	Ohm	186.90			
EPD electrode impedance	Ohm	450.92			
E1/E2 electrode impedance on E1	Ohm	204.55			
E1/E2 electrode impedance on E2	Ohm	203.70			
Sensor electronic module (ISEM)					
Supply voltage 30.0V	V	31.16	27.000	35.000	□□□□■□□□□□
Linearity and reference voltage 1		0.9997	0.9900	1.0100	□□□□■□□□□□
Linearity and reference voltage 2		0.9995	0.9900	1.0100	□□□□■□□□□□
Measuring point offset		2.9120	-100.0000	100.0000	□□□□■□□□□□
Hold voltage feedback value	%	0.70	-10.0	10.0	□□□□■□□□□□
Shot voltage feedback value	%	-0.50	-20.0	20.0	□□□□■□□□□□
Electronic current loss deviation	%	0.31	-10.0000	10.0000	□□□□■□□□□□
Coil circuit value	%	-0.055	-1.0	1.0	□□□□■□□□□□
Shot control circuit value	%	-0.098	-10.0	10.0	□□□□■□□□□□
Electrode signal integrity deviation	%	2.36	-40.0	40.0	□□□□■□□□□□

Test item with value	Unit	Actual	Min.	Max.	Visualization
I/O module					
Output 1 value 1	mA	5.9914	5.7983	6.1175	□□□□□■□□□□
Output 1 value 2		0.0000	0.0000	0.0000	□□□□□□□□□□
Output 2 value 1		0.0000	0.0000	0.0000	□□□□□□□□□□
Output 3 value 1		0.0000	0.0000	0.0000	□□□□□□□□□□

Plant operator: Flowmetrix

Device identification and verification identification

Serial number	T1051B16000
Device tag	FIT-0522_UV
Verification ID	3



Test item with value	Unit	Actual
Process conditions		
Volume flow value verification	l/s	6.1105
Conductivity value verification	µS/cm	-nan
Electronic temperature	°F	107.3
Current difference potential	V	-0.007443
Current potential electrode 1	V	0.2848
Current potential electrode 2	V	0.2889
Current potential electrode Pipe GND	V	0.0005381



Plant operator: Flowmetrix

Device information

Location	Midhurst Valley WWTP
Device tag	PRM-FIT-0219
Module name	C303-02
Nominal diameter	DN150 / 6"
Device name	Promag 500
Order code	5W5B1F-7TA1/0
Serial number	SC0B4D19000
Firmware version	01.05.00

**Calibration**

Calibration factor	1.3535
Zero point	-2.0

Verification information

Operating time (counter)	969d15h57m47s
Date/time (manually recorded)	04.06.25 10:21
Verification ID	3
Verification mode	Internal verification

Overall verification result*

 Passed	Details see next page
--	-----------------------

*Result of the complete device functionality test via Heartbeat Technology

Confirmation

Heartbeat Verification verifies the function of the flowmeter within the specified measuring tolerance, over the useful lifetime of the device, with a total test coverage > 94 %, and complies with the requirements for traceable verification according to DIN EN ISO 9001:2008 – Section 7.6 a. (attested by TÜV-SÜD Industrieservices GmbH)

Notes

Date

Operator's signature

Inspector's signature

Plant operator: Flowmetrix

Device identification and verification identification

Serial number	SC0B4D19000
Device tag	PRM-FIT-0219
Verification ID	3



Sensor		✓ Passed
Shot time symmetry		✓ Passed
Hold voltage symmetry		✓ Passed
Coil current loss		✓ Passed
Coil current stability		✓ Passed
Coil resistance		✓ Passed
E1 electrode cable		✓ Passed
E2 electrode cable		✓ Passed
EPD electrode cable		✓ Passed
Sensor electronic module (ISEM)		✓ Passed
Supply voltage		✓ Passed
Internal voltages		✓ Passed
Linearity and reference voltage		✓ Passed
Offset of electrode measuring circuit		✓ Passed
Hold voltage feedback		✓ Passed
Shot voltage feedback		✓ Passed
Electronic current loss		✓ Passed
Coil circuit measurement		✓ Passed
Shot control circuit		✓ Passed
Electrode signal integrity		✓ Passed
System status		✓ Passed
I/O module		✓ Passed
Input/output 1	26-27 (I/O 1)	✓ Passed
Input/output 2	24-25 (I/O 2)	✓ Passed
Input/output 3	22-23 (I/O 3)	⏻ Not plugged
Input/output 4	20-21 (I/O 4)	⏻ Not plugged

Plant operator: Flowmetrix

Device identification and verification identification

Serial number	SC0B4D19000
Device tag	PRM-FIT-0219
Verification ID	3



Test item with value	Unit	Actual	Min.	Max.	Visualization
Sensor					
Shot time symmetry deviation		1.0009	0.9000	1.1000	□□□□■□□□□□
Hold voltage symmetry deviation		1.0000	0.9000	1.1000	□□□□■□□□□□
Coil current loss deviation	%	-0.0918	-10.0000	10.0000	□□□□■□□□□□
Coil current offset	%	0.0162	-0.1000	0.1000	□□□□■□□□□□
Coil current deviation	%	0.0000	-0.1000	0.1000	□□□□■□□□□□
Coil resistance value	Ohm	81.5	50.0	240.0	□■□□□□□□□□
E1 electrode impedance	Ohm	177.01			
E2 electrode impedance	Ohm	178.49			
EPD electrode impedance	Ohm	450.78			
E1/E2 electrode impedance on E1	Ohm	192.17			
E1/E2 electrode impedance on E2	Ohm	193.65			
Sensor electronic module (ISEM)					
Supply voltage 30.0V	V	29.66	27.000	35.000	□□■□□□□□□□
Linearity and reference voltage 1		0.9996	0.9900	1.0100	□□□□■□□□□□
Linearity and reference voltage 2		0.9996	0.9900	1.0100	□□□□■□□□□□
Measuring point offset		-0.9934	-100.0000	100.0000	□□□□■□□□□□
Hold voltage feedback value	%	1.86	-10.0	10.0	□□□□■□□□□□
Shot voltage feedback value	%	-0.52	-20.0	20.0	□□□□■□□□□□
Electronic current loss deviation	%	-0.25	-10.0000	10.0000	□□□□■□□□□□
Coil circuit value	%	-0.06	-1.0	1.0	□□□□■□□□□□
Shot control circuit value	%	-0.13	-10.0	10.0	□□□□■□□□□□
Electrode signal integrity deviation	%	-0.71	-40.0	40.0	□□□□■□□□□□

Test item with value	Unit	Actual	Min.	Max.	Visualization
I/O module					
I/O module 1 terminal numbers	26-27 (I/O 1)				
Output 1 value 1	mA	5.5966	5.4430	5.7550	□□□□■□□□□□
Output 1 value 2		0.0000	0.0000	0.0000	□□□□□□□□□□
I/O module 2 terminal numbers	24-25 (I/O 2)				
Output 2 value 1	mA	6.2338	6.0762	6.4010	□□□□■□□□□□
Output 2 value 2		0.0000	0.0000	0.0000	□□□□□□□□□□

Plant operator: Flowmetrix

Device identification and verification identification

Serial number	SC0B4D19000
Device tag	PRM-FIT-0219
Verification ID	3



Test item with value	Unit	Actual
Process conditions		
Volume flow value verification	l/s	3.5026
Conductivity value verification	$\mu\text{S}/\text{cm}$	-nan
Electronic temperature	$^{\circ}\text{F}$	82.4
Current difference potential	V	0.0012
Current potential electrode 1	V	0.0586
Current potential electrode 2	V	0.0509
Current potential electrode Pipe GND	V	0.0029



IndusControl Inc
3170 Ridgeway Drive Unit 11
Mississauga, ON, L5L 5R4

PORTABLE COLORIMETER VERIFICATION REPORT

Customer Name	OCWA-Georgian Bay	Address	3168 Dobson Rd, Springwater, ON, L4M 4S4
Plant Name	Midhurst Valley WTP		
Location	Midhurst Valley WTP	Date	July 23, 2025
OCWA ID	40607	Report No	CO1643-2507-20
Device Discription	Pocket Colorimeter	Job No	CO1643-2507

Device Information

Instrument Make:	Hach
Model/Part No:	DR900
Serial No:	222656601030

Calibration/Verification Test Details

Standard Solution	Calculated Value (ppm)	UUT Display (ppm)	Deviation (ppm)
Blank(0.00)	0.00	0.00	0.00
STD 1(0.23±0.09)	0.23	0.23	0.00
STD 2(0.92±0.10)	0.92	0.88	-0.04
STD 3(1.60±0.14)	1.60	1.57	-0.03

Information of Device/Instrument use for Verification/Calibration

Device Discription:	DPD-Chlorine LR Spec Check Secondary Standard Kit		
Make:	Hach		
Lot No:	A4205		
Overall Test Result:	☒ Passed	☐ Fail	☐ Not Verified

Notes: Device is working as per specification. Verification Test Passed

Service Technician : Sanket Trada

Printed Date: July 23, 2025

Stamp/Signature

End of Report

Version: 20-01

2025 Annual Performance Report

Appendix D

Sludge Quality Data

Solids & Nutrients	Metals & Criteria	Last 4 Samples
Facility Works Number:	120003977	Receiver: Willow Creek
Facility Owner:	Municipality: Township of Springwater	Service Population: 695
Facility Classification:	Class 2 Wastewater Treatment	Total Design Capacity: 516 m3/day

Note: all parameters in this report are derived from the Bslq Station

Month	Hauled Vol. (m³)	Total Solids (mg/L)	Total Phosphorus (mg/L)	Total Ammonia Nitrogen (mg/L)	Nitrate as N (mg/L)	Nitrite as N (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Ammonia + Nitrate (mg/L)	Potassium (mg/L)
Parameter Short Name	HauledVol	TS	TP	NH3p_NH4p_N	NO3-N	NO2-N	TKN	Calculation in Report	K
T/S	IH Month.Total	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean	- no T/S	Lab Published Month Mean
Jan		13,800.00	345.00	2.00	31.00	3.00	660.00	16.50	35.00
Feb	236.00	11,200.00	319.00	1.90	20.00	3.00	590.00	10.95	36.80
Mar		12,300.00	277.00	6.80	32.00	3.00	635.00	19.40	34.00
Apr		12,200.00	272.00	3.80	3.00	3.00	608.00	3.40	34.00
May		16,800.00	409.00	41.80	3.00	3.00	859.00	22.40	44.00
Jun	330.00	21,300.00	697.00	98.40	3.00	3.00	1,110.00	50.70	54.00
Jul		15,800.00	429.00	44.20	3.00	3.00		23.60	31.00
Aug		18,300.00	620.00	55.60	3.00	3.00	895.00	29.30	31.00
Sep	284.00	17,300.00	605.00	68.20	3.00	3.00		35.60	34.00
Oct		11,400.00	193.50	33.85	13.50	3.00	330.00	23.68	22.00
Nov	252.00	6,910.00	275.00	22.10	3.00	3.00		12.55	19.00
Dec		11,300.00	308.00	7.50	3.00	3.00		5.25	35.00
Average	275.50	14,050.83	395.79	32.18	10.04	3.00	710.88	21.11	34.15
Total	1,102.00	168,610.00	4,749.50	386.15	120.50	36.00	5,687.00	253.33	409.80

Solids & Nutrients		Metals & Criteria		Last 4 Samples							
Note: all parameters in this report are derived from the Bslq Station											
Month	Arsenic (mg/L)	Cadmium (mg/L)	Cobalt (mg/L)	Chromium (mg/L)	Copper (mg/L)	Mercury (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Lead (mg/L)	Selenium (mg/L)	Zinc (mg/L)
Parameter Short Name	As	Cd	Co	Cr	Cu	Hg	Mo	Ni	Pb	Se	Zn
T/S	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean
Jan	0.10	0.01	0.03	0.43	3.50	0.00	0.05	0.26	0.10	0.10	7.00
Feb	0.10	0.01	0.02	0.33	3.18	0.00	0.05	0.21	0.10	0.10	6.67
Mar	0.10	0.01	0.02	0.25	2.60	0.00	0.05	0.16	0.10	0.10	5.00
Apr	0.10	0.01	0.02	0.24	2.70	0.00	0.05	0.16	0.10	0.10	5.00
May	0.10	0.01	0.02	0.32	3.80	0.00	0.06	0.21	0.10	0.10	7.00
Jun	0.10	0.01	0.04	0.47	5.60	0.01	0.09	0.31	0.20	0.10	11.00
Jul	0.10	0.01	0.02	0.40	3.70	0.01	0.06	0.24	0.10	0.10	7.00
Aug	0.10	0.01	0.03	0.65	5.50	0.01	0.10	0.39	0.20	0.10	12.00
Sep	0.10	0.01	0.02	0.50	5.00	0.01	0.08	0.29	0.10	0.10	10.00
Oct	0.10	0.01	0.01	0.32	2.80	0.01	0.05	0.19	0.10	0.10	6.00
Nov	0.10	0.01	0.01	0.21	2.70	0.00	0.05	0.14	0.10	0.10	5.00
Dec	0.10	0.01	0.01	0.16	2.70	0.00	0.05	0.13	0.10	0.10	5.00
Average	0.10	0.01	0.02	0.36	3.65	0.00	0.06	0.22	0.12	0.10	7.22
Max. Permissible Metal Concentrations (mg/kg of Solids)	170.00	34.00	340.00	2,800.00	1,700.00	11.00	94.00	420.00	1,100.00	34.00	4,200.00
Metal Concentrations in Sludge (mg/kg)	7.12	0.49	1.51	25.41	259.66	0.29	4.39	15.95	8.30	7.12	514.03

Note: all parameters in this report are derived from the Bslq Station

Parameter Short Name	Time Series		10/01/2025	11/05/2025	12/03/2025	Average	Metal Concentrations in Sludge (mg/kg)	Max. Permissible Metal Concentrations (mg/kg of Solids)
As (mg/L)	Lab Published		0.10	0.10	0.10	0.10	9.75	170
Cd (mg/L)	Lab Published		0.01	0.01	0.01	0.01	0.52	34
Co (mg/L)	Lab Published		0.01	0.01	0.01	0.01	0.98	340
Cr (mg/L)	Lab Published		0.32	0.21	0.16	0.23	22.43	2800
Cu (mg/L)	Lab Published		2.80	2.70	2.70	2.73	266.60	1700
Hg (mg/L)	Lab Published		0.01	0.00	0.00	0.00	0.36	11
Mo (mg/L)	Lab Published		0.05	0.05	0.05	0.05	4.88	94
Ni (mg/L)	Lab Published		0.19	0.14	0.13	0.15	14.96	420
Pb (mg/L)	Lab Published		0.10	0.10	0.10	0.10	9.75	1100
Se (mg/L)	Lab Published		0.10	0.10	0.10	0.10	9.75	34
Zn (mg/L)	Lab Published		6.00	5.00	5.00	5.33	520.20	4200
E. Coli Dry wt (cfu/g)	Lab Published						E. Coli average is the GMD	
TS (mg/L)	Lab Published	11,800.00	11,000.00	6,910.00	11,300.00	10,252.50		
VS (mg/L)	Lab Published							
TP (mg/L)	Lab Published	302.00	85.00	275.00	308.00	242.50		
NO2-N (mg/L)	Lab Published	3.00	3.00	3.00	3.00	3.00		
TKN (mg/L)	Lab Published				330.00	330.00		
K (mg/L)	Lab Published		22.00	19.00	35.00	25.33		
NH3p_NH4p_N (mg/L)	Lab Published	3.00	64.70	22.10	7.50	24.33		
NO3-N (mg/L)	Lab Published	24.00	3.00	3.00	3.00	8.25		

2025 Annual Performance Report

Appendix E

Environmental Incident Reports

Ontario Clean Water Agency Environmental Incident Report

Facility ID: 1685 EIncidentReport

Facility Name: Midhurst Valley Wastewater System

Address: 1432 Snow Valley Road

City: Minesing

Province: Ontario

Postal Code: _____

Date of Occurrence: 03/16/2025

Time of Occurrence: 12:25:00 PM

Nature of the Incident

☒ Level 1 Contingency ☐ Level 2 Contingency ☐ Level 3 Contingency [Click here To Show the Definitions](#)

Incident affected: ☐ Air ☐ Water ☒ Land ☐ Nothing

What was discharged or emitted?

- | | |
|--|--|
| ☐ Chlorine | ☐ Oil/Diesel/Gas |
| ☐ Sodium Hypochlorite | ☒ Untreated or partly treated sewage |
| ☐ Calcium Chloride | ☐ Odours |
| ☐ Aluminum Compounds (Specify in Other) | ☐ Water |
| ☐ Arsenic | ☐ Iron Coagulants |
| ☐ Fluoride | |

Other: _____

If this was a discharge, spill or emission...

If a liquid, approximately what quantity was released?: 10000 Litres

If a gas, approximately what quantity was released?: _____

If a solid, approximately what quantity was released?: _____ Kg

What was the source of release?:

A metal coupling inside the headworks building blew off a pipe that connects the raw sewage EQ transfer pumps to the EQ tank.

Where did the release go?:

Inside headworks building and land just outside headworks building.

If it entered a watercourse: ☐ Yes ☒ No

If it went off site: ☐ Yes ☒ No

Duration of the release?: 1 hour

Is the release now stopped?: ☒ Yes ☐ No

Was there any damage? (i.e. property and/or environmental): ☐ Yes ☒ No ☐ N/A

If "Yes", describe below and fill out "Insurance Claim" report

Action(s) Taken

What actions were taken to control the incident?

The on-call operator contacted Region of Huronia Environmental Services (ROHES) for cleanup and to pump down the wet well until repairs could be completed.
Once the coupling was repaired, the raw sewage that was pumped out of the wet well was returned, and normal operations were restored.

What actions have been taken to remediate the incident?

Representative samples collected from the spill location, and will be sent to SGS lab for analysis.
ROHES responded for clean-up and pumped down wet-well.

Was this a reportable spill or discharge?: ☒ Yes ☐ No

If "Yes", at what time was it first reported to the MOE?

March 16, 2025 at 1620 hrs

Was it reported to the MOE district office?: ☒ Yes ☐ No

If "Yes", which office/location and who was the contact?: Simcoe Muskoka District Health Unit

Was it reported to MOE SAC?: ☒ Yes ☐ No

If "Yes", at what time was it reported to MOE SAC?:

March 16, 2025 at 1545 hrs

Was it reported to Municipality?: ☒ Yes ☐ No

If "Yes", at what time was it reported to Municipality?:

March 16, 2025 at 1515 hrs

External Assistance/Involvement

Was corporate or area office assistance requested?: ☐ Yes ☒ No

If "Yes", was it received?: ☐ Yes ☐ No

Was external emergency assistance requested?: ☐ Yes ☒ No

If "Yes", from who?: ☐ Fire Department ☐ Equipment Suppliers ☐ Canutec
☐ Ambulance or Hospital ☐ MOE ☐ Coast Guard
☐ Police ☐ Municipality

Other: _____

Was there any media involvement?: ☐ Yes ☒ No

If "Yes", who?: _____

Was the public affected?: ☐ Yes ☒ No

If "Yes", how?: _____

Updated By: Caitlin Bahen 03/17/2025 01:35:51 PM

Comments:

Facility: Midhurst Valley Interim WWTP
Works: 120003977
SAC Incident #: 1-J2HPWM
Address: 1432 Snow Valley Rd, Minesing, Ontario
Date & Time of Start: March 16 2025 @ 1225hrs
Duration: ~1hr
Volume: ~10m³
Spill Location: On Land- Area surrounding the Headworks Rotary Screening Building. (spill did not go off-site)

Incident Description

On March 16, 2025 at approximately 1225 hrs, operations received a "Generator run" alarm. The Operator responded and stopped to check on the wastewater plant. Upon arrival, the Operator discovered influent seeping from the headworks building door. A metal coupling inside the headworks building blew off a pipe that connects the raw sewage EQ transfer pumps to the EQ tank.

Actions Taken to Control Incident

" The on-call operator contacted Region of Huronia Environmental Services (ROHES) for cleanup and to pump down the wet well until repairs could be completed.

" Once the coupling was repaired, the raw sewage that was pumped out of the wet well was returned, and normal operations were restored.

Reporting/Notification to SAC/Health Unit/MECP

March 16th 2025

" 1515 hrs OCWA (Michelle Neal - SOM) verbally notified Township of Springwater, Director of Public Works (Trevor Harvey), of the spill.

" 1545 hrs OCWA (Michelle Neal - SOM) verbally notified SAC (Julian Aristizabal) of the spill. No further actions required.

" 1620 hrs OCWA (Michelle Neal - SOM) verbally notified the SMDHU and spoke to dispatch. Received call-back from SMDHU at 1652hrs, verbally notified PHI (Pauline Loo) of the spill. No further actions required.

" 1748 hrs OCWA (Michelle Neal - SOM) notified OCWA Regional Hub Manager

(Caralynn McRae) and Safety Process Compliance Manager (Kristen Tilotta) of the incident.

" Sample results to be submitted to applicable parties once lab results are made available.

March 17th, 2025

" 1126 hrs verbally notified local MECP Inspector (Mark Bailey) of incident.

Actions Taken to Remediate Incident

" Representative samples collected from the spill location, and will be sent to SGS lab for analysis.

" ROHES responded for clean-up and pumped down wet-well.

Ontario Clean Water Agency Environmental Incident Report

Facility ID: 1685 EIncidentReport

Facility Name: Midhurst Valley Wastewater System

Address: 1432 Snow Valley Rd.

City: Minesing

Province: Ontario

Postal Code: _____

Date of Occurrence: 07/02/2025

Time of Occurrence: 12:25:00 PM

Nature of the Incident

☒ Level 1 Contingency ☐ Level 2 Contingency ☐ Level 3 Contingency [Click here To Show the Definitions](#)

Incident affected: ☐ Air ☐ Water ☒ Land ☐ Nothing

What was discharged or emitted?

- | | |
|--|--|
| ☐ Chlorine | ☐ Oil/Diesel/Gas |
| ☐ Sodium Hypochlorite | ☒ Untreated or partly treated sewage |
| ☐ Calcium Chloride | ☐ Odours |
| ☐ Aluminum Compounds (Specify in Other) | ☐ Water |
| ☐ Arsenic | ☐ Iron Coagulants |
| ☐ Fluoride | |

Other: _____

If this was a discharge, spill or emission...

If a liquid, approximately what quantity was released?: 50 Litres

If a gas, approximately what quantity was released?: _____

If a solid, approximately what quantity was released?: _____ Kg

What was the source of release?:

A crack in the sludge hauling hose.

Where did the release go?:

On Land- Area surrounding the sludge containment tank. (spill did not go off-site)

If it entered a watercourse: ☐ Yes ☒ No

If it went off site: ☐ Yes ☒ No

Duration of the release?: 15 minutes

Is the release now stopped?: ☒ Yes ☐ No

Was there any damage? (i.e. property and/or environmental): ☐ Yes ☒ No ☐ N/A

If "Yes", describe below and fill out "Insurance Claim" report

Action(s) Taken

What actions were taken to control the incident?

The operator confirmed that the sludge pumps were not running. The operator notified OCWA SOM and PCT of incident and began preparations for clean-up.

What actions have been taken to remediate the incident?

A representative sample was collected from the spill location, and will be sent to SGS lab for analysis. OCWA operations staff cleaned-up and disposed of the contaminated gravel and washed the area.

Was this a reportable spill or discharge?: ☒ Yes ☐ No

If "Yes", at what time was it first reported to the MOE?

July 2, 2025 at 1351 hrs

Was it reported to the MOE district office?: ☒ Yes ☐ No

If "Yes", which office/location and who was the contact?: Simcoe Muskoka District Health Unit

Was it reported to MOE SAC?: ☒ Yes ☐ No

If "Yes", at what time was it reported to MOE SAC?:

July 2, 2025 at 1338 hrs

Was it reported to Municipality?: ☒ Yes ☐ No

If "Yes", at what time was it reported to Municipality?:

July 2, 2025 at 1434 hrs

External Assistance/Involvement

Was corporate or area office assistance requested?: ☐ Yes ☒ No

If "Yes", was it received?: ☐ Yes ☐ No

Was external emergency assistance requested?: ☐ Yes ☒ No

If "Yes", from who?: ☐ Fire Department ☐ Equipment Suppliers ☐ Canutec
☐ Ambulance or Hospital ☐ MOE ☐ Coast Guard
☐ Police ☐ Municipality

Other: _____

Was there any media involvement?: ☐ Yes ☒ No

If "Yes", who?: _____

Was the public affected?: ☐ Yes ☒ No

If "Yes", how?: _____

Updated By: Caitlin Bahen 07/03/2025 10:13:30 AM

Comments:

Facility: Midhurst Valley Interim WWTP
Works: 120003977
SAC Incident #: 1-OOCBF5
Address: 1432 Snow Valley Rd, Minesing, Ontario
Date & Time of Start: July 2 2025 @ 1225hrs
Duration: 15 minutes
Volume: ~50 Liters
Spill Location: On Land- Area surrounding the sludge containment tank. (spill did not go off-site)

Incident Description

On July 2, 2025 at approximately 1225 hrs, operations noticed a leak of sludge coming from the sludge pumping hose on the outside of the sludge containment tank. The operator confirmed that the sludge pumps were not running, and the volume of sludge leaked was what was contained within the hose after the previous sludge haul. It was determined that sun exposure could have been the cause of the crack in the hose.

Actions Taken to Control Incident

" The operator confirmed that the sludge pumps were not running.
" The operator notified OCWA SOM and PCT of incident and began preparations for clean-up.

Reporting/Notification to SAC/Health Unit/MECP

July 2nd 2025

" 1310 hrs OCWA (Caitlin Bahen - PCT) verbally notified MECP Inspector Mark Bailey.
" 1338 hrs OCWA (Caitlin Bahen - PCT) verbally notified SAC (Alim Khan) of the spill. Requested a call-back to update on the cleanup of the spill before end of day.
" 1436 hrs OCWA (Caitlin Bahen - PCT) verbally updated SAC on the completion of the clean-up.
" 1351 hrs OCWA (Caitlin Bahen - PCT) verbally notified PHI (Sylvia Thompson-Nicholson) of the spill. No further actions required.
" 1434 hrs OCWA (Michelle Neal - SOM) notified the Township of Springwater of the incident.
" Sample results to be submitted to applicable parties once lab results

are made available.

Actions Taken to Remediate Incident

" A representative sample was collected from the spill location, and will be sent to SGS lab for analysis.

" OCWA operations staff cleaned-up and disposed of the contaminated gravel and washed the area.

Ontario Clean Water Agency Environmental Incident Report

Facility ID: 1685 EIncidentReport

Facility Name: Midhurst Valley Wastewater System

Address: 1432 Snow Valley Rd,

City: Minesing

Province: Ontario

Postal Code: _____

Date of Occurrence: 07/15/2025

Time of Occurrence: 12:15:00 PM

Nature of the Incident

☒ Level 1 Contingency ☐ Level 2 Contingency ☐ Level 3 Contingency [Click here To Show the Definitions](#)

Incident affected: ☐ Air ☐ Water ☒ Land ☐ Nothing

What was discharged or emitted?

- | | |
|--|--|
| ☐ Chlorine | ☐ Oil/Diesel/Gas |
| ☐ Sodium Hypochlorite | ☒ Untreated or partly treated sewage |
| ☐ Calcium Chloride | ☐ Odours |
| ☐ Aluminum Compounds (Specify in Other) | ☐ Water |
| ☐ Arsenic | ☐ Iron Coagulants |
| ☐ Fluoride | |

Other: _____

If this was a discharge, spill or emission...

If a liquid, approximately what quantity was released?: 2000 Litres

If a gas, approximately what quantity was released?: _____

If a solid, approximately what quantity was released?: _____ Kg

What was the source of release?:

Overflow from headworks building due to clogged screens.

Where did the release go?:

By the door and land near the door of the headworks building.

If it entered a watercourse: ☐ Yes ☒ No

If it went off site: ☐ Yes ☒ No

Duration of the release?: N/A

Is the release now stopped?: ☒ Yes ☐ No

Was there any damage? (i.e. property and/or environmental): ☐ Yes ☒ No ☐ N/A

If "Yes", describe below and fill out "Insurance Claim" report

Action(s) Taken

What actions were taken to control the incident?

The operator confirmed that the equipment in headworks building was not running when overflow was discovered.
The operator notified OCWA SOM and PCT of incident and contacted ROHES for clean up.

What actions have been taken to remediate the incident?

Representative samples were collected from the spill location, and will be sent to SGS lab for analysis. ROHES was contacted to clean-up and dispose of the raw sewage in and outside the headworks building and the contaminated gravel.

Was this a reportable spill or discharge?: ☒ Yes ☐ No

If "Yes", at what time was it first reported to the MOE?

July 15, 2025 @ 1350 hrs and 1430 hrs

Was it reported to the MOE district office?: ☒ Yes ☐ No

If "Yes", which office/location and who was the contact?: SMDHU

Was it reported to MOE SAC?: ☒ Yes ☐ No

If "Yes", at what time was it reported to MOE SAC?:

July 15, 2025 @ 1335 hrs

Was it reported to Municipality?: ☒ Yes ☐ No

If "Yes", at what time was it reported to Municipality?:

July 15, 2025 @ 1358 hrs

External Assistance/Involvement

Was corporate or area office assistance requested?: ☐ Yes ☒ No

If "Yes", was it received?: ☐ Yes ☐ No

Was external emergency assistance requested?: ☐ Yes ☒ No

If "Yes", from who?: ☐ Fire Department ☐ Equipment Suppliers ☐ Canutec
☐ Ambulance or Hospital ☐ MOE ☐ Coast Guard
☐ Police ☐ Municipality

Other: _____

Was there any media involvement?: ☐ Yes ☒ No

If "Yes", who?: _____

Was the public affected?: ☐ Yes ☒ No

If "Yes", how?: _____

Updated By: Caitlin Bahen 07/15/2025 03:31:00 PM

Comments:

Facility: Midhurst Valley Interim WWTP
Works: 120003977
SAC Incident #: 1-P2ZF4Q
Address: 1432 Snow Valley Rd, Minesing, Ontario
Date & Time of Start: July 15 2025 @ 1215hrs
Duration: Operator found overflow at 1215 hrs. Upon arrival screens were no longer overflowing
Volume: ~2 m3
Spill Location: On Land- Area in front of headworks building door. (spill did not go off-site)

Incident Description

On July 15, 2025 at approximately 1215 hrs, operations noticed an overflow from the door of the headworks building. The equipment was not running at that time and the overflow had stopped.

Actions Taken to Control Incident

" The operator confirmed that the equipment in headworks building was not running when overflow was discovered.

" The operator notified OCWA SOM and PCT of incident and contacted ROHES for clean up.

Reporting/Notification to SAC/Health Unit/MECP

July 15th 2025

" 1335 hrs OCWA (Caitlin Bahen - PCT) verbally notified SAC (Fatima Jabeen) of the spill. Requested a call-back to update on the cleanup of the spill before end of day.

" 1510 hrs OCWA (Caitlin Bahen - PCT) verbally updated SAC on the completion of the clean-up.

" 1350 hrs OCWA (Caitlin Bahen - PCT) verbally notified PHI (Natalie Benoit - SMDHU) of the spill, and would receive a follow-up call for the details. 1430 hrs OCWA (Caitlin Bahen - PCT) received a call back from (Pauline Loo - SMDHU) and relayed details regarding the spill. No further actions requested.

" 1358 hrs OCWA (Michelle Neal - SOM) notified the Township of Springwater

of the incident.

" 1500 hrs OCWA (Caitlin Bahen - PCT) notified Aaron Mattson (MECP Inspector) regarding the spill.

" Sample results to be submitted to applicable parties once lab results are made available.

Actions Taken to Remediate Incident

" Representative samples were collected from the spill location, and will be sent to SGS lab for analysis.

" ROHES was contacted to clean-up and dispose of the raw sewage in and outside the headworks building and the contaminated gravel.

Ontario Clean Water Agency Environmental Incident Report

Facility ID: 1685 EIncidentReport

Facility Name: Midhurst Valley Wastewater System

Address: 1432 Snow Valley Rd.

City: Minesing

Province: Ontario

Postal Code: _____

Date of Occurrence: 09/17/2025

Time of Occurrence: 01:15:00 PM

Nature of the Incident

☒ Level 1 Contingency ☐ Level 2 Contingency ☐ Level 3 Contingency [Click here To Show the Definitions](#)

Incident affected: ☐ Air ☐ Water ☒ Land ☐ Nothing

What was discharged or emitted?

- | | |
|--|--|
| ☐ Chlorine | ☐ Oil/Diesel/Gas |
| ☐ Sodium Hypochlorite | ☒ Untreated or partly treated sewage |
| ☐ Calcium Chloride | ☐ Odours |
| ☐ Aluminum Compounds (Specify in Other) | ☐ Water |
| ☐ Arsenic | ☐ Iron Coagulants |
| ☐ Fluoride | |

Other: _____

If this was a discharge, spill or emission...

If a liquid, approximately what quantity was released?: 1000 Litres

If a gas, approximately what quantity was released?: _____

If a solid, approximately what quantity was released?: _____ Kg

What was the source of release?:

The screens overflowed in the Headworks building.

Where did the release go?:

On Land- Area in front of headworks building door.

If it entered a watercourse: ☐ Yes ☒ No

If it went off site: ☐ Yes ☒ No

Duration of the release?: Unknown

Is the release now stopped?: ☒ Yes ☐ No

Was there any damage? (i.e. property and/or environmental): ☐ Yes ☒ No ☐ N/A

If "Yes", describe below and fill out "Insurance Claim" report

Action(s) Taken

What actions were taken to control the incident?

The operator confirmed that the equipment in headworks building was not running when overflow was discovered.
The operator notified OCWA SOM and PCT of incident and OCWA cleaned up the site.

What actions have been taken to remediate the incident?

Representative samples were collected from the spill location, and was sent to SGS lab for analysis.
OCWA cleaned-up and dispose of the raw sewage in and outside the headworks building. - completed

Was this a reportable spill or discharge?: ☒ Yes ☐ No

If "Yes", at what time was it first reported to the MOE?

Reported at 1640 hrs on September 17, 2025

Was it reported to the MOE district office?: ☒ Yes ☐ No

If "Yes", which office/location and who was the contact?: Simcoe Muskoka District Health Unit

Was it reported to MOE SAC?: ☒ Yes ☐ No

If "Yes", at what time was it reported to MOE SAC?:

Reported at 1539 hrs on September 17, 2025

Was it reported to Municipality?: ☒ Yes ☐ No

If "Yes", at what time was it reported to Municipality?:

Reported at 1510 hrs on September 17, 2025

External Assistance/Involvement

Was corporate or area office assistance requested?: ☐ Yes ☒ No

If "Yes", was it received?: ☐ Yes ☐ No

Was external emergency assistance requested?: ☐ Yes ☒ No

If "Yes", from who?: ☐ Fire Department ☐ Equipment Suppliers ☐ Canutec
☐ Ambulance or Hospital ☐ MOE ☐ Coast Guard
☐ Police ☐ Municipality

Other: _____

Was there any media involvement?: ☐ Yes ☒ No

If "Yes", who?: _____

Was the public affected?: ☐ Yes ☒ No

If "Yes", how?: _____

Updated By: Caitlin Bahen 09/18/2025 02:30:37 PM

Comments:

Facility: Midhurst Valley Interim WWTP
Works: 120003977
SAC Incident #: 1-PILXFW
Address: 1432 Snow Valley Rd, Minesing, Ontario
Date & Time of Start: September 17 2025, approximate start time unknown.
Duration: Operator found overflow at 1315 hrs. Upon arrival screens were no longer overflowing
Volume: ~ 1 m3
Spill Location: On Land- Area in front of headworks building door. (spill did not go off-site)

Incident Description

On September 17, 2025 at approximately 1315 hrs, operations noticed an overflow from the door of the headworks building. The equipment was not running at that time and the overflow had stopped.

Actions Taken to Control Incident

1. The operator confirmed that the equipment in headworks building was not running when overflow was discovered.
2. The operator notified OCWA SOM and PCT of incident and OCWA cleaned up the site.

Reporting/Notification to SAC/Health Unit/MECP

September 17th 2025

1. 1539 hrs OCWA (Caitlin Bahen - PCT) verbally notified SAC (Elaine Gold) of the spill.
2. 1640 hrs OCWA (Caitlin Bahen - PCT) verbally notified the SMDHU after hours of the spill, and would receive a follow-up call from a PHI. 1715 hrs OCWA (Caitlin Bahen - PCT) received a call back from on-call PHI (Alexandra McColl - SMDHU) and relayed details regarding the spill. No further actions requested.
3. 1510 hrs OCWA (Michelle Neal - SOM) notified the Township of Springwater of the incident.
4. 1632 hrs OCWA (Caitlin Bahen - PCT) notified Mark Bailey (MECP Inspector) regarding the spill.
5. Sample results to be submitted to applicable parties once lab results

are made available.

Actions Taken to Remediate Incident

1. Representative samples were collected from the spill location, and was sent to SGS lab for analysis.
2. OCWA cleaned-up and dispose of the raw sewage in and outside the headworks building. - completed

Corrective Actions

1. The Engineering Consultant, Developer, and Township are currently reviewing possible solutions to address the Headworks screening issues at the Midhurst Valley Interim WWTP.

Ontario Clean Water Agency Environmental Incident Report

Facility ID: 1685 EIncidentReport

Facility Name: Midhurst Valley Wastewater System

Address: 1432 Snow Valley road

City: Minesing

Province: Ontario

Postal Code: _____

Date of Occurrence: 10/26/2025

Time of Occurrence: 01:22:00 PM

Nature of the Incident

☒ Level 1 Contingency ☐ Level 2 Contingency ☐ Level 3 Contingency [Click here To Show the Definitions](#)

Incident affected: ☐ Air ☐ Water ☒ Land ☐ Nothing

What was discharged or emitted?

- | | |
|--|--|
| ☐ Chlorine | ☐ Oil/Diesel/Gas |
| ☐ Sodium Hypochlorite | ☒ Untreated or partly treated sewage |
| ☐ Calcium Chloride | ☐ Odours |
| ☐ Aluminum Compounds (Specify in Other) | ☐ Water |
| ☐ Arsenic | ☐ Iron Coagulants |
| ☐ Fluoride | |

Other: _____

If this was a discharge, spill or emission...

If a liquid, approximately what quantity was released?: 1000 Litres

If a gas, approximately what quantity was released?: _____

If a solid, approximately what quantity was released?: _____ Kg

What was the source of release?:

Overflow from Headworks screens

Where did the release go?:

On Land- Area in front of headworks building door. (spill did not go off-site)

If it entered a watercourse: ☐ Yes ☒ No

If it went off site: ☐ Yes ☒ No

Duration of the release?: Unknown.

Is the release now stopped?: ☒ Yes ☐ No

Was there any damage? (i.e. property and/or environmental): ☐ Yes ☒ No ☐ N/A

If "Yes", describe below and fill out "Insurance Claim" report

Action(s) Taken

What actions were taken to control the incident?

Upon arrival, pumps were not running, screens were no longer overflowing when overflow was discovered.
The operator notified OCWA ORO, SOM, of incident and contacted Region of Huronia Environmental Service (ROHES) and cleaned up the site.

What actions have been taken to remediate the incident?

Representative samples were collected from the spill location, and to be sent to SGS lab for analysis.
OCWA contacted Region of Huronia Environmental Service (ROHES) to clean-up and dispose of the raw sewage in and outside the headworks building. - completed

Was this a reportable spill or discharge?: ☒ Yes ☐ No

If "Yes", at what time was it first reported to the MOE?

October 26th at 1825 hrs

Was it reported to the MOE district office?: ☒ Yes ☐ No

If "Yes", which office/location and who was the contact?: Simcoe Muskoka District Health Unit

Was it reported to MOE SAC?: ☒ Yes ☐ No

If "Yes", at what time was it reported to MOE SAC?:

October 26th at 1737 hrs

Was it reported to Municipality?: ☒ Yes ☐ No

If "Yes", at what time was it reported to Municipality?:

October 27th at 1141 hrs

External Assistance/Involvement

Was corporate or area office assistance requested?: ☐ Yes ☒ No

If "Yes", was it received?: ☐ Yes ☐ No

Was external emergency assistance requested?: ☐ Yes ☒ No

If "Yes", from who?: ☐ Fire Department ☐ Equipment Suppliers ☐ Canutec
☐ Ambulance or Hospital ☐ MOE ☐ Coast Guard
☐ Police ☐ Municipality

Other: _____

Was there any media involvement?: ☐ Yes ☒ No

If "Yes", who?: _____

Was the public affected?: ☐ Yes ☒ No

If "Yes", how?: _____

Updated By: Caitlin Bahen 10/27/2025 09:40:45 AM

Comments:

Facility: Midhurst Valley Interim WWTP

Works: 120003977

SAC Incident #: 1-PP66IX

Address: 1432 Snow Valley Rd, Minesing, Ontario

Date & Time of Start: October 26 2025, approximate start time unknown.

Duration: Operator discovered overflow at 1322 hrs. Upon arrival, pumps were not running, screens were no longer overflowing.

Volume: ~ 1 m3

Spill Location: On Land- Area in front of headworks building door. (spill did not go off-site)

Incident Description

On October 26, 2025 at approximately 1322 hrs, operations noticed an overflow from the door of the head works building while respond to a separate facility alarm.

Actions Taken to Control Incident

1. Upon arrival, pumps were not running, screens were no longer overflowing when overflow was discovered.
2. The operator notified OCWA ORO, SOM, of incident and contacted Region of Huronia Environmental Service (ROHES) and cleaned up the site.

Reporting/Notification to SAC/Health Unit/MECP

October 26th 2025

1. 1737 hrs OCWA (Michelle Neal - SOM) verbally notified SAC, Environmental Officer (Cody Wright) of the spill. No further actions required.
 2. 1825 hrs OCWA (Michelle Neal - SOM) verbally notified the SMDHU after hours of the spill, and would receive a follow-up call from a PHI. 1907 hrs OCWA (Michelle Neal - SOM) received a call back from on-call PHI (Cheryl Walt-SMDHU) and relayed details regarding the spill. No further actions requested.
- October 27th 2025
3. 1141 hrs OCWA (Michelle Neal - SOM) notified the Township of Springwater of the incident.
 4. 0828 hrs OCWA (Caitlin Bahen - PCT) notified Mark Bailey (MECP

Inspector) regarding the spill.

5. Sample results to be submitted to applicable parties once lab results are made available.

Actions Taken to Remediate Incident

1. Representative samples were collected from the spill location, and to be sent to SGS lab for analysis.

2. OCWA contacted Region of Huronia Environmental Service (ROHES) to clean-up and dispose of the raw sewage in and outside the headworks building.
- completed

Corrective Actions

1. Further investigation/troubleshooting required to confirm possible programming issues in regards to pump lockout.

2. The Engineering Consultant, Developer, and Township are currently reviewing possible solutions to address the Headworks screening issues at the Midhurst Valley Interim WWTP.