

ANNUAL REPORT

ENVIRONMENTAL COMPLIANCE APPROVAL No. 3351-B2JY4

SNOW VALLEY HIGHLANDS 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 FOR ANNUAL PERFORMANCE REPORT

This annual performance report was prepared in accordance with Amended Environmental Compliance Approval 3351-B24JY4 for the Snow Valley Environmental Centre (Highlands) Wastewater Treatment Plant as per Section 11.(4).

11. REPORTING

(4) 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 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, loading 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 any deviation from the monitoring schedule and reasons for the current reporting year and a schedule for the next reporting year;

d. a summary of all operating issues encountered and corrective actions taken;

e. 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;

f. a summary of any effluent quality assurance or control measures undertaken

g. a summary of the calibration and maintenance activities 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;

h. 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 are 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 Annual Average Daily Influent Flow reaches 80% of the Rated Capacity;

i. 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 sludge was disposed.

2024 Annual Performance Report

The Corporation of the Township of Springwater: Snow Valley Highlands Wastewater Treatment Plant

ECA No. 3351-B24JY4 (Issue Date: September 26, 2018)

Reporting Period: January 1, 2024 to December 31, 2024

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

k. 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;

l. a summary of all Notice of Modification to Sewage Works completed under Paragraph 1.d. of Condition 10, including a report on status of implementation of all modification.

m. 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 results 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.

n. 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.

Table of Contents

1. System Description	5
2. Monitoring Data Influent	6
2.1 Influent ECA Monitoring Program	6
2.2 Raw (Influent) Characteristics: Summary and Interpretation of Reporting Year	6
2.3 Raw Sewage (Influent) Characteristics: Review of Historical Trends	7
2.4 Raw Sewage (Influent) Flow: Summary and Interpretation of Reporting Year	10
2.5 Influent Flow and Volume: Review of Historical Trends	11
3. Effluent Monitoring.....	13
3.1 Effluent ECA Monitoring Program	13
3.2 Effluent Monitoring Data: Summary and Interpretation of Reporting Year and Comparison to Objectives and Limits	14
3.3 Effluent Flow: Summary and Interpretation of Reporting Year	17
3.4 Success and Adequacy of the System.....	18
4. Monitoring Schedule.....	19
5. Operating Issues and Corrective Actions	20
6. Repair and Maintenance Activities	21
6.1 Work Management System	21
6.2 Preventative Maintenance	22
6.3 Repairs & Improvements.....	22
7. Quality Assurance and Control Measures.....	22
7.1 Adherence to Provincial Regulations.....	23
7.2 Use of Accredited Laboratories	23
7.3 Operation by Licensed Operators.....	23
7.4 Sampling and Analysis	23
7.5 In-house Analysis	23
7.6 Calibrations.....	23
8. Calibration & Maintenance – Monitoring Equipment	24
9. Design Objective Requirements.....	24
10. Sludge Production	25

2024 Annual Performance Report

The Corporation of the Township of Springwater: Snow Valley Highlands Wastewater Treatment Plant

ECA No. 3351-B24JY4 (Issue Date: September 26, 2018)

Reporting Period: January 1, 2024 to December 31, 2024

11.	Community Complaints.....	26
12.	By-pass, Spill or Abnormal Discharge Events Summary.....	27
12.1	By-pass events.....	27
12.2	Spills	27
12.3	Abnormal Discharge Events	27
13.	Notice of Modification to Sewage Works	27
14.	Conformance to Procedure F-5-1	27
15.	Construction and Commissioning Schedule Updates	27

List of Appendices

Appendix A – Performance Assessment Report

Appendix B – Sampling Calenders

Appendix C – Calibration Reports

Appendix D – Sludge Quality Analysis

The enclosed 2025 Annual Performance Report for the Snow Valley Environmental Centre (Highlands) Wastewater Treatment Plant summarizes the performance and related activities in accordance with Amended Environmental Compliance Approval No. 3351-B24JY4 (Issue Date: September 26, 2018) during the Reporting Period of January 1, 2025 and December 31, 2025.

1. System Description

The Snow Valley Environmental Centre Wastewater Treatment Plant, also known as the Snow Valley Highlands WWTP is a Sequencing Batch Reactor (SBR) Plant for the treatment of sanitary sewage with disposal to subsurface disposal beds. The Works is owned by the Corporation of the Township of Springwater and operated on behalf of the Owner by the Ontario Clean Water Agency (OCWA). The rated capacity of the system is 260 m³/day.

Via a separate sewer system, raw sewage is collected and pumped into an inlet sewer that discharges into the flow balancing tank. Two submersible pumps (one duty, one standby) pump towards the screw type screen equipped with a bypass channel, then towards two grit channels (one standby) for preliminary screening.

The influent is then directed towards the Secondary Treatment System which is equipped with two Treatment Trains of Integrated Surge Anoxic Mix (ISAM) Sequencing Batch Reactors (SBRs), which consist of the following: an SWD anaerobic primary settling/sludge storage chamber, an integrated surge anoxic mix chamber with sludge recirculation capabilities and an emergency overflow pipe, an SWD sequencing batch reactor chamber with a jet aeration system, a fixed decanter, and a waste sludge line to the anaerobic chamber. Air blowers feed the aeration system.

The Secondary Effluent Tank is equipped with two submersible pumps (one duty, one standby) for discharge into the post-secondary treatment sand filters. Effluent from the sand filters is directed towards the Final Effluent tank, which discharges through two forcemains to the subsurface effluent disposal beds.

Table 1: Snow Valley Highlands WWTP System Overview

Facility Name	Snow Valley Environmental Centre Wastewater Treatment Plant
Facility Type	ISAM-SBR Treatment System
Plant Classification	Class II Wastewater Treatment Facility
Works Number	110003610
Rated Capacity	260 m ³ /d
Discharge Point	Subsurface Disposal Beds
Environmental Compliance Approval (ECA)	3351-B24JY4 (Issued: September 26, 2018)

2. Monitoring Data Influent

Where ECA 3351-B24JY4, Section 11.(4)(a) requires:

“A summary and interpretation of all Influent monitoring data, and a review of 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 most current ECA for the reporting period.

Table 2: Influent Water Quality Monitoring Program and Sampling Points- as per ECA 3351-B24JY4 Schedule D

Parameters	Sample Type	Minimum Frequency
Biochemical Oxygen Demand (BOD ₅) ^{2A}	24 hour composite	Monthly
Total Suspended Solids (TSS) ^{2A}	24 hour composite	Monthly
Total Phosphorus (TP) ^{2A}	24 hour composite	Monthly
Total Kjeldahl Nitrogen (TKN) ^{2A}	24 hour composite	Monthly

^{2A} Refer to Appendix A 2025 Annual Performance Report for monthly sample results.

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.

Laboratory analysis of the influent throughout the year indicated that BOD₅ peaked in April at 611 m/L, Total Suspended Solids peaked in April at 228 mg/L, Total phosphorus peaked in April at 13.20 mg/L and Total Kjeldahl Nitrogen was higher than 82.00 mg/L in January, February, and April. Overall, there were variable fluctuations to influent contents for the reporting year.

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

Timeframe	Monthly Influent Concentrations (mg/L)			
	BOD ₅	Total Suspended Solids	Total Phosphorus	Total Kjeldahl Nitrogen
January	367.00	241.00	8.58	82.50
February	296.00	162.00	8.25	82.00
March	184.00	208.00	5.62	49.20
April	611.00	228.00	13.20	82.30
May	417.00	188.00	10.20	58.50
June	214.00	176.00	5.98	51.90

Timeframe	Monthly Influent Concentrations (mg/L)			
	BOD ₅	Total Suspended Solids	Total Phosphorus	Total Kjeldahl Nitrogen
July	319.00	130.00	6.37	56.90
August	211.00	130.00	5.03	58.50
September	301.00	148.00	5.61	54.70
October	220.00	145.00	4.80	54.70
November	210.00	210.00	5.70	48.80
December	259.00	163.00	6.66	56.10
2025 Average	300.75	177.42	7.17	61.34

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

The graphs below (Graphs 1 – 4) show a historical trend of annual average concentration of sewage characteristics, including Total Phosphorus, BOD₅, Total Suspended Solids and Total Kjeldahl Nitrogen from 2019 to 2025.

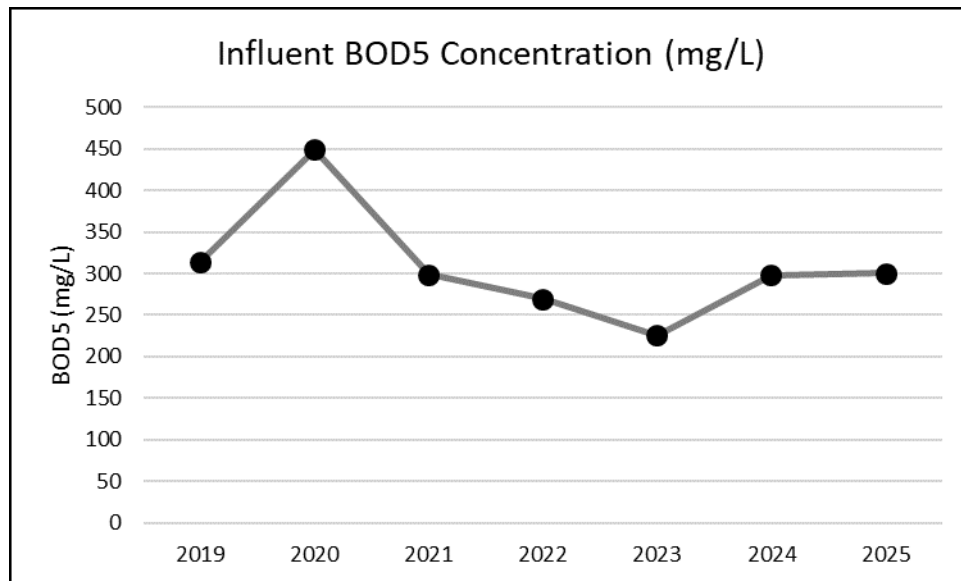
A review of the historical trends for influent sewage characteristics, shown in Figure 1 to Figure 4, indicate the following:

- BOD₅ - from 2019 to 2020 there was a notable increase in BOD₅ from 314.5 to 449.08 mg/L. Between 2020 and 2023, there was a gradual decrease in the annual average concentration from 298.67 to 269.92 to 225.75 mg/L in 2021, 2022 and 2023 respectively. From 2023 to 2025 the average BOD₅ monthly concentration has increased from 225.75 to 300.75 mg/L.
- Total Suspended Solids (TSS) – from 2019 to 2020 there was a notable increase in TSS from 192.23 to 245.58 mg/L. From 2020 to 2023, there has been a gradual decrease in the annual average concentration from 221.92 to 175.08 to 146.08 mg/L in 2021, 2022 and 2023 respectively. Between 2023 and 2024 the average TSS increased from 146.08 to 181.53 mg/L. There was a slight decrease in 2025.
- Total Phosphorus (TP) – from 2019 to 2020 there was a notable increase in TP from 8.4 to 12.43 mg/L. From 2020 to 2023, there was a gradual decrease in the annual average concentration from 9.24 to 8.38 to 7.27 mg/L in 2021, 2022 and 2023 respectively. Between 2023 and 2024 the TP concentration increased from 7.27 to 9.66 mg/L. However, TP dropped to below the 2023 average in 2025 at 7.17 mg/L.
- Total Kjeldahl Nitrogen (TKN) - from 2019 to 2020 there was a notable increase in TKN from 60.02 to 85.27 mg/L. From 2020 to 2023, there was varying fluctuations in the annual average concentration from 73.44 to 74.37 to 56.33 mg/L in 2021, 2022 and

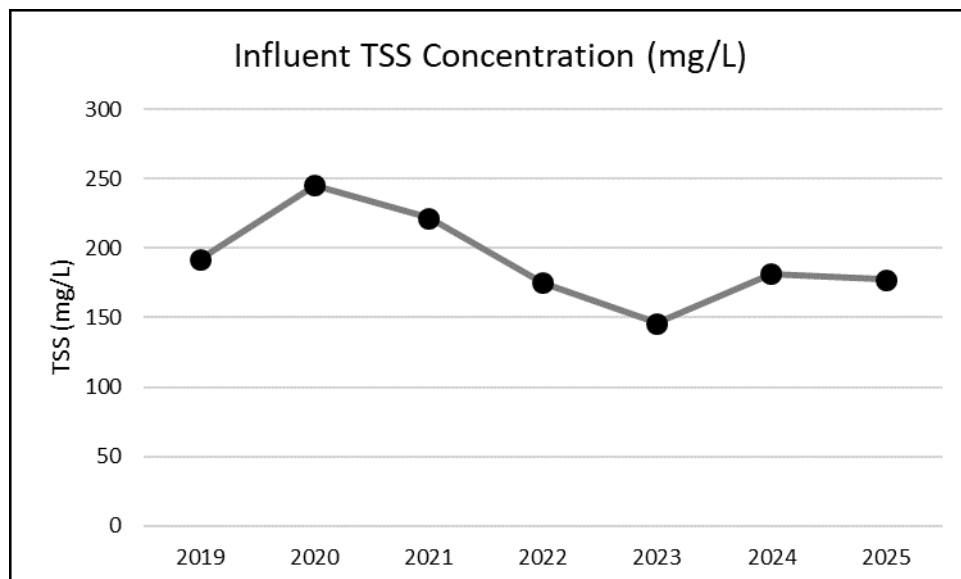
2023 respectively. Between 2023 and 2024 the average TKN increased from 56.33 to 67.89 mg/L. There was a slight decrease in 2025 to 61.34 mg/L.

Seasonal fluctuations in influent strength, particularly the elevated BOD₅ and TSS observed in April, may contribute to increased loading on the biological treatment process during spring months.

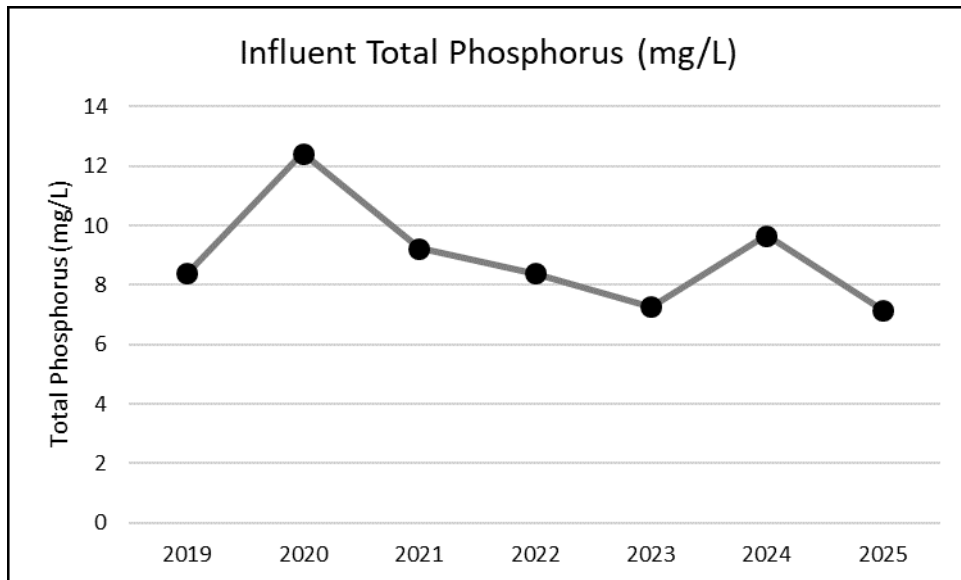
Graph 1. Raw Sewage (Influent) BOD₅ Historical Trending for 2019-2025



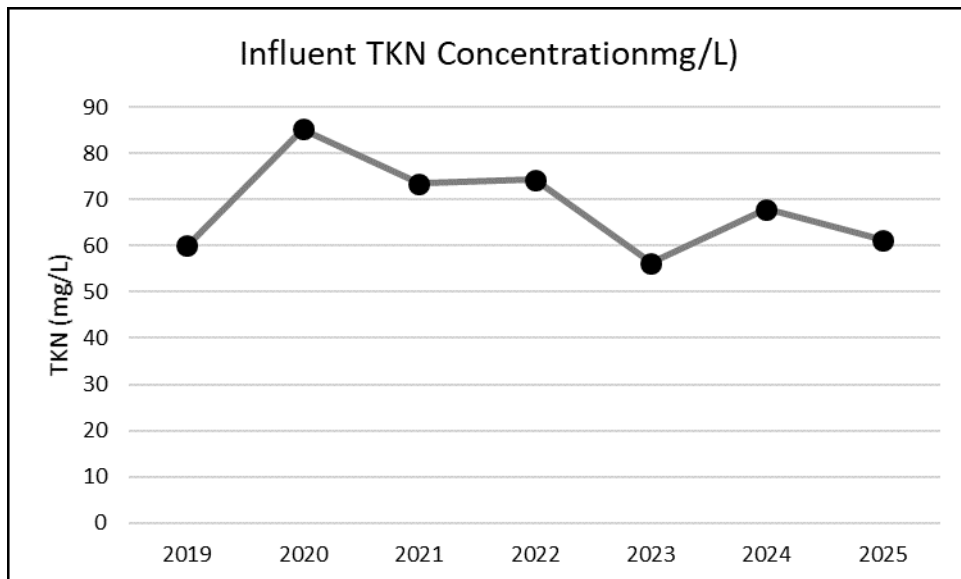
Graph 2. Raw Sewage (Influent) Total Suspended Solids Historical Trending for 2019-2025



Graph 3. Raw Sewage (Influent) Total Phosphorus Historical Trending for 2019-2025



Graph 4. Raw Sewage (Influent) Total Kjeldahl Nitrogen Historical Trending for 2019-2025



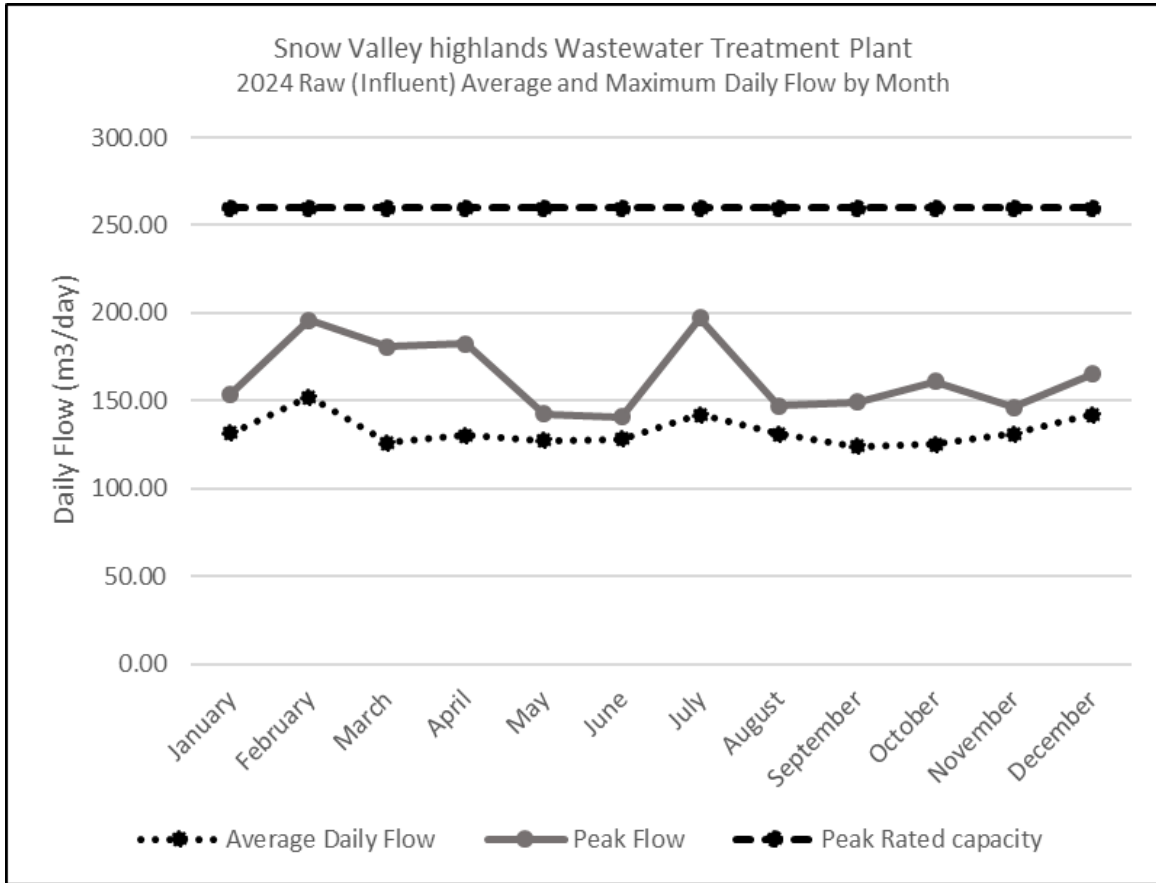
2.4 Raw Sewage (Influent) Flow: Summary and Interpretation of Reporting Year

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 Flow) Average and Maximum Daily Flow Data with Comparison to the Rated Capacity

Timeframe	Average Daily Flow (m ³ /day)	% of Rated Capacity (260 m ³ /day)	Peak Flow (m ³ /day)	% of Rated Capacity (260 m ³ /day)	Total Flow (m ³)
January	131.49	50.57%	154.10	59.27%	4,076.20
February	152.08	58.49%	196.00	75.38%	4,258.30
March	126.10	48.50%	180.70	69.50%	3,909.00
April	130.52	50.20%	182.30	70.12%	3,915.60
May	127.39	49.00%	142.50	54.81%	3,949.00
June	128.21	49.31%	140.90	54.19%	3,846.40
July	142.30	54.73%	197.30	75.88%	4,411.40
August	131.31	50.50%	147.20	56.62%	4,070.50
September	124.27	47.79%	149.30	57.42%	3,728.00
October	125.25	48.17%	161.00	61.92%	3,882.90
November	131.23	50.47%	146.50	56.35%	3,936.90
December	142.22	54.70%	165.20	63.54%	4,408.90
2025 Annual	132.58	50.99%	197.30	75.88%	48,393.10

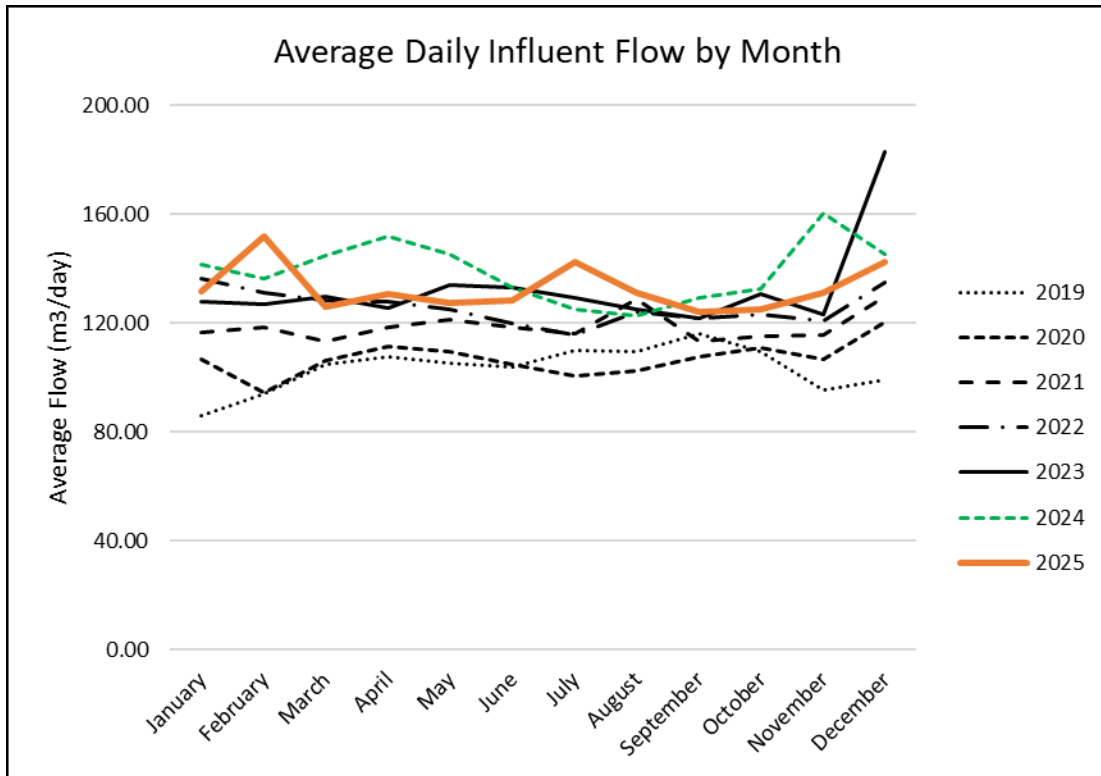
Graph 5: Daily Average Influent Flow Compared with the Rated Capacity and Maximum Peak Design Flow Rate for 2025



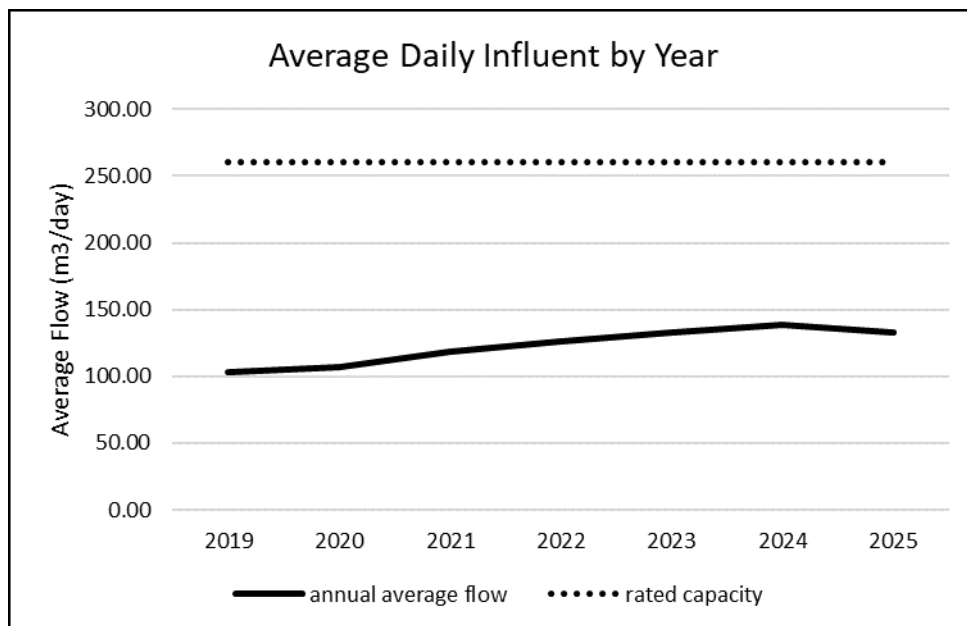
2.5 Influent Flow and Volume: Review of Historical Trends

The average daily flow for 2025 was 132.58 m³/day, which is approximately 51% of the rated capacity. The highest peak flow for 2025 was recorded on July 23 at 197.30 m³/day, which is approximately 76% of the Design Capacity. The average daily influent flow by month shows typical seasonal changes in flow variation, which has also been observed historically year over year.

Graph 6. Monthly Historical Trending of Daily Average Influent Flow for 2019 to 2025



Graph 7: Yearly Historical Trending of Daily Average Influent Flow for 2019 to 2025



3. Effluent Monitoring

ECA 3351-B24JY4, Section 11, Part 4. b. requires:

“A summary and interpretation of all Final Effluent monitoring data, including concentration, flow rates, loading 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 table (Table 5) outlines the monitoring program at the Snow Valley Highlands Wastewater Treatment Plant as it applies to effluent samples taken analyzed by analytical 3rd party laboratories under the facility ECA. There are additional samples taken and analyzed in-house throughout the year in order to help with process performance monitoring, adjustment, and optimization.

Table 5: Water Quality Monitoring Program and Effluent Sampling Points- as per ECA 3351-B24JY4 Schedule D

Parameter	Sample Type	Minimum Frequency
Carbonaceous Biochemical Oxygen Demand (CBOD ₅) ^{5A}	24 hour Composite	Weekly
Total Suspended Solids ^{5A}	24 hour Composite	Weekly
Total Ammonia Nitrogen + Nitrate Nitrogen ^{5A}	24 hour Composite	Weekly
Total Phosphorus ^{5A}	24 hour Composite	Weekly
pH	Grab/Probe	Weekly
Temperature	Grab/Probe	Weekly

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

Note: 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.

^{5A} Refer to Appendix A 2025 Annual Performance Report for monthly sample results.

The following table outlines the effluent objectives and limits at the Snow Valley Highlands Wastewater Treatment Plant as per the ECA.

Table 6: Environmental Compliance Approval Final Effluent Compliance Limits- as per ECA 3351-B24JY4 Schedule C

Parameter ^{6A}	Averaging Calculator	Concentration Limits
CBOD ₅	Annual Average Effluent Concentration	15.0 mg/L
CBOD ₅ Loading	Annual Average Daily Effluent Loading	2.7 kg/day
Total Suspended Solids	Annual Average Effluent Concentration	15.0 mg/L
Total Suspended Solids Loading	Annual Average Daily Effluent Loading	2.7 kg/day

2024 Annual Performance Report

The Corporation of the Township of Springwater: Snow Valley Highlands Wastewater Treatment Plant

ECA No. 3351-B24JY4 (Issue Date: September 26, 2018)

Reporting Period: January 1, 2024 to December 31, 2024

Parameter ^{6A}	Averaging Calculator	Concentration Limits
Total Ammonia Nitrogen plus Nitrate Nitrogen	Annual Average Effluent Concentration	7.0 mg/L
Total Ammonia Nitrogen plus Nitrate Nitrogen	Annual Average Daily Effluent Loading	1.26 kg/d

^{6A} Refer to Appendix A 2025 Annual Performance Report for monthly sample results.

The ECA final effluent objective concentrations are outlined in the following table.

Table 7: Environmental Compliance Approval Final Effluent Compliance Objectives- as per ECA 3351-B24JY4 Schedule B

Parameters	Averaging Calculator	ECA Objectives
CBOD ₅ ^{7A}	Annual Average Effluent Concentration	12.0 mg/L
Total Suspended Solids ^{7A}	Annual Average Effluent Concentration	12.0 mg/L
Total Ammonia Nitrogen plus Nitrate Nitrogen ^{7A}	Annual Average Effluent Concentration	5.6 mg/L
pH	Single Sample Result	6.5 to 8.5 inclusive

Note: CBOD₅ is Carbonaceous Biochemical Oxygen Demand

^{7A} Refer to Appendix A 2025 Annual Performance Report for monthly sample results.

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 annual average effluent concentration
- CBOD₅ annual average daily effluent loading
- Total Suspended Solids annual average daily effluent loading
- Total Ammonia Nitrogen plus Nitrate Nitrogen annual average daily effluent loadings

A review of the effluent monitoring data shows that the following parameters were within the limits set out in the most current ECA (as applicable) for the duration of reporting period but were unable to meet the objectives in the following instances:

- Total Suspended Solids annual average effluent concentration:
 - January 8, 2025 sample
 - May 9, 14, 28, 2025 samples
 - June 4, 11, 26, 2025 samples
 - July 3, 9, 24, 2025 samples
 - August 7, 14, 21, 2025 samples

2024 Annual Performance Report

The Corporation of the Township of Springwater: Snow Valley Highlands Wastewater Treatment Plant

ECA No. 3351-B24JY4 (Issue Date: September 26, 2018)

Reporting Period: January 1, 2024 to December 31, 2024

- September 3, 10, 25, 2025 samples
- October 15, 22, 2025 samples
- December 17, 23, 2025 samples

In addition, the annual average TSS concentration of 13.77 mg/L exceeded the ECA objective of 12.0 mg/L, although it remained within the compliance limit of 15 mg/L.

- pH
 - August 5, 11, 26, 2025 samples
 - September 8, 15, 2025 samples
 - October 6, 2025 sample

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.

A review of the effluent monitoring data shows that the following parameters were not within limits set out in the most current ECA for the reporting period:

- Total Ammonia Nitrogen plus Nitrate Nitrogen- 2025 annual average effluent concentration. *See section 5 for more details on this non-compliance.*

All exceedances of design objectives were addressed operationally as they occurred, and no adverse environmental impacts or operational upsets were observed as a result of these deviations.

The following tables summarize annual data in comparison to the applicable ECA objectives and limits for the reporting period. Refer to *Appendix A 2025 Annual Performance Report* for a more detailed description of monthly sample results.

Table 8. Effluent Sampling Results: CBOD₅ Concentration

Timeframe	Annual Average (mg/L)	Within Limits? (15.0 mg/L)	Within Objectives? (12.0 mg/L)
2025	6.12	Yes	Yes

**As per the ECA, CBOD₅ Concentration Averaging Calculator is an Annual Average Effluent Concentration.*

Table 9. Effluent Sampling Results: CBOD₅ Loadings

Timeframe	Annual Average (kg/d)	Within Limits? (2.7 kg/d)
2025	0.78	Yes

**There are no CBOD₅ loading objectives in the ECA*

**As per the ECA, CBOD₅ Loading Averaging Calculator is an Annual Average Daily Effluent Loading.*

Table 10. Effluent Sampling Results: Total Suspended Solids Concentration

2024 Annual Performance Report

The Corporation of the Township of Springwater: Snow Valley Highlands Wastewater Treatment Plant

ECA No. 3351-B24JY4 (Issue Date: September 26, 2018)

Reporting Period: January 1, 2024 to December 31, 2024

Timeframe	Total Suspended Solids		
	Annual Average (mg/L)	Within Limits? (15.0 mg/L)	Within Objectives? (12.0 mg/L)
2025	13.77	Yes	No

**As per the ECA, TSS Concentration Averaging Calculator is an Annual Average Effluent Concentration.*

Table 11. Effluent Sampling Results: Total Suspended Solids Loadings

Timeframe	Total Suspended Solids Loadings	
	Annual Average (kg/d)	Within Limits? (2.7 kg/d)
2025	1.75	Yes

**There are no TSS loading objectives in the ECA*

**As per the ECA, TSS Loading Averaging Calculator is an Annual Average Daily Effluent Loading.*

Table 12. Effluent Sampling Results: Total Ammonia Nitrogen plus Nitrate Nitrogen

Timeframe	Total Ammonia Nitrogen plus Nitrate Nitrogen		
	Annual Average (mg/L)	Within Limits? (7.0 mg/L)	Within Objectives? (5.6 mg/L)
2025	9.05	No	No

**As per the ECA, Total ammonia Nitrogen plus Nitrate Nitrogen Concentration Averaging Calculator is an Annual Average Effluent Concentration.*

Table 13. Effluent Sampling Results: Total Ammonia Nitrogen plus Nitrate Nitrogen Loadings

Timeframe	Total Ammonia Nitrogen plus Nitrate Nitrogen Loadings	
	Annual Average (kg/d)	Within Limits? (1.26 kg/d)
2025	0.74	Yes

**There are no Total Ammonia Nitrogen plus Nitrate Nitrogen loading objectives in the ECA*

**As per the ECA, TAN plus Nitrate Nitrogen Loading Averaging Calculator is an Annual Average Daily Effluent Loading.*

Table 14. Effluent Sampling Results: pH

Timeframe	pH		
	Minimum	Maximum	Within Objectives? (6.5-8.5)
January	6.90	7.40	Yes
February	6.90	7.40	Yes
March	6.90	7.20	Yes
April	7.00	7.40	Yes
May	6.60	7.60	Yes
June	7.00	8.20	Yes
July	6.50	8.10	Yes
August	6.20	7.60	No

2024 Annual Performance Report

The Corporation of the Township of Springwater: Snow Valley Highlands Wastewater Treatment Plant

ECA No. 3351-B24JY4 (Issue Date: September 26, 2018)

Reporting Period: January 1, 2024 to December 31, 2024

September	6.30	7.30	No
October	6.40	7.60	No
November	6.80	7.20	Yes
December	6.60	7.10	Yes

**There are no pH compliance limits listed in the facility ECA, only objectives based upon single sample result, inclusive, at all times.*

3.3 Effluent Flow: Summary and Interpretation of Reporting Year

The following table outlines the final effluent average and peak daily flow data in 2025 and the graph shows the final effluent average daily and peak daily final effluent flow by month for the reporting year.

Table 15: Final Effluent Average Daily and Peak Flow Data by month for 2025

Timeframe	Average Daily Flow (m ³ /day)	Peak Flow (m ³ /day)	Total Flow (m ³)
January	125.78	163.70	3,899.30
February	125.29	169.60	3,508.00
March	128.40	169.00	3,980.40
April	130.79	184.70	3,923.60
May	133.74	198.40	4,146.00
June	127.01	165.50	3,810.28
July	129.51	170.40	4,014.80
August	123.32	149.40	3,822.90
September	123.64	160.70	3,709.20
October	116.33	163.00	3,606.20
November	124.80	160.50	3,743.90
December	135.99	178.20	4,215.80
2025 Annual	127.42	198.40	46,380.38

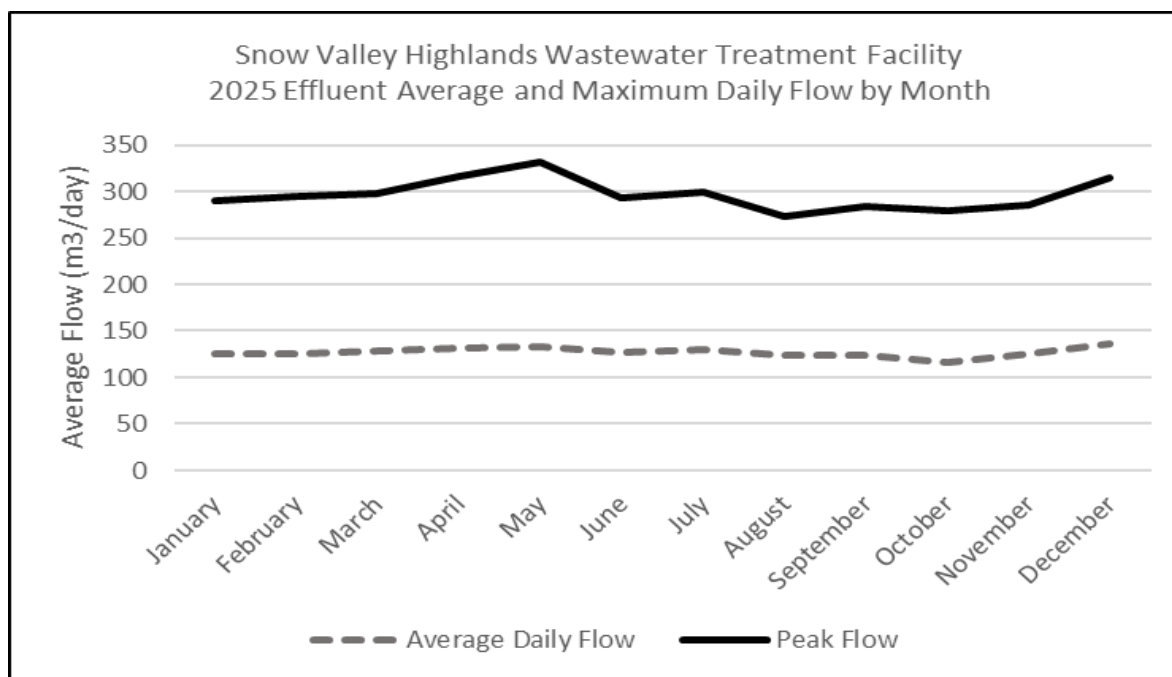
Graph 8: Average Daily and Peak Daily Final Effluent Flow by Month for 2025

2024 Annual Performance Report

The Corporation of the Township of Springwater: Snow Valley Highlands Wastewater Treatment Plant

ECA No. 3351-B24JY4 (Issue Date: September 26, 2018)

Reporting Period: January 1, 2024 to December 31, 2024



The average daily flow was relatively consistent month to month throughout the reporting year with the highest daily peak flow recorded on May 5 (198.40 m³/day). The month that had the greatest total volume of effluent discharged was December 2025.

3.4 Success and Adequacy of the System

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

Parameter	Average Removal Rate for 2025
Total Suspended Solids	91.31%
Total Phosphorus	93.22%

During the reporting period, the Snow Valley Highlands WWTP provided effective wastewater treatment, producing effluent with removal rates for Total Suspended Solids on average 91% approximately and removal rates for Total Phosphorus of approximately 93% on average. The Works demonstrated adequate hydraulic capacity throughout the year, with no evidence of hydraulic overloading or flow-related performance limitations.

Routine visual inspections were conducted as part of normal operations to assess effluent clarity and check for the presence of solids or visible contaminants.

Overall, the works was in compliance with almost all ECA final effluent concentrations and loading limits and objectives, inclusive of CBOD₅, Total Suspended Solids, and Total Ammonia Nitrogen (TAN) + Nitrate Nitrogen Loadings.

2024 Annual Performance Report

The Corporation of the Township of Springwater: Snow Valley Highlands Wastewater Treatment Plant

ECA No. 3351-B24JY4 (Issue Date: September 26, 2018)

Reporting Period: January 1, 2024 to December 31, 2024

During the reporting period, the facility was out of compliance for TAN + Nitrate Nitrogen Annual Average Concentration. Based on the monitoring program and effluent quality data, the Snow Valley Highlands WWTP did experience issues in meeting TAN + Nitrate Nitrogen final effluent concentrations. *See section 5 "Operating Issues and Corrective Actions" for more information.*

There were six instances in which the pH dropped slightly below the objective limit (6.5 to 8.5 inclusive) during the reporting period. These instances occurred between August and October with measurements between 6.20 and 6.40 taken on in-house samples and tested of pH; causes were unknown.

Please refer to **Appendix A** for detailed performance assessment report.

4. Monitoring Schedule

ECA 3351-B24JY4, Section 11, Part 4. c. 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;"

During the reporting period samples were taken every Wednesday and on the dates as described by the 2025 sampling calendar, with the exception of twenty-one samples that deviated from the sampling schedule. See below for further details.

Scheduled Sample Date	Date Sample was Taken	Type of Sample	Reason for Deviation
May 7, 2025	May 9, 2025	Weekly Effluent/ Monthly Sludge	Samples were taken on the 9 th and 27 th due issues with the composite sampler.
	May 27, 2025	Monthly Raw	
June 4, 2025	June 20, 2025	Monthly Raw	Sample taken on the 20 th due to issues with the composite sampler.
July 2, 2025	July 3, 2025	Weekly Effluent/ Monthly Sludge	Samples were taken on the 3 rd and 17 th due issues with the composite sampler.
	July 17, 2025	Monthly Raw	
July 16, 2025	July 17, 2025	Weekly Effluent	Sample taken on the 17 th due to issues with the composite sampler.
July 23, 2025	July 24, 2025	Weekly Effluent	Sample taken on the 24 th due to issues with the composite sampler.
August 6, 2025	August 7, 2025	Weekly Effluent	Samples were taken on the 7 th and 12 th due to issues with the composite

2024 Annual Performance Report

The Corporation of the Township of Springwater: Snow Valley Highlands Wastewater Treatment Plant

ECA No. 3351-B24JY4 (Issue Date: September 26, 2018)

Reporting Period: January 1, 2024 to December 31, 2024

	August 12, 2025	Monthly Raw	sampler.
August 13, 2025	August 14, 2025	Weekly Effluent	Sample taken on the 14 th due to issues with the composite sampler.
August 20, 2025	August 21, 2025	Weekly Effluent	Sample taken on the 21 st due to issues with the composite sampler.
September 3, 2025	September 4, 2025	Monthly Raw	Sample taken on the 4 th due to issues with the composite sampler.
September 24, 2025	September 25, 2025	Weekly Effluent	Sample taken on the 25 th due to issues with the composite sampler.
October 1, 2025	October 9, 2025	Monthly Raw	Sample taken on the 9 th due to issues with the composite sampler.
November 5, 2025	November 6, 2025	Monthly Raw	Sample taken on the 6 th due to issues with the composite sampler.
November 12, 2025	November 14, 2025	Weekly Effluent	Sample taken on the 14 th due to issues with the composite sampler.
November 19, 2025	November 20, 2025	Weekly Effluent	Sample taken on the 20 th due to issues with the composite sampler.
December 3, 2025	December 4, 2025	Monthly Raw	Sample taken on the 4 th due to issues with the composite sampler.
December 30, 2025	December 29, 2025	Weekly Effluent	Sample taken on the 29 th due to Statutory Holiday.

All required samples were collected following the resolution of equipment issues, and no required sampling events were missed.

The sampling schedule and requirements were revised on December 12, 2025 for the 2026 reporting year and distributed to operations staff on December 17, 2025. A copy of this reporting periods sampling schedule and the 2026 sampling schedule can be found in **Appendix B**

5. Operating Issues and Corrective Actions

ECA 3351-B24JY4, Section 11, Part 4. d.:

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

During the reporting period, the WWTP encountered an ongoing operating issue relating to elevated concentrations of TAN + Nitrate Nitrogen for the months of February, April, October, November and December of 2025, ultimately resulting in an exceedance of the ECA Annual Average Concentration Limit. The Annual Average concentration exceedance was reported to MECP verbally on January 12, 2026 and a written notification was provided on January 16,

2026. A summary of monthly and annual average for TAN + N₃- in comparison to ECA limits and Objectives can be found in Table 8.

The elevated TKN concentrations in January, February and April contributed to final effluent TAN averages above the ECA limit in February and April. During the months of October, November and December, Train 2 was not cycling between the high and low DO set points due to limitations of DO transfer required to process batches. Train 1 also had a DO probe failure on December 3rd and 4th of 2025. Corrective actions in 2025 included:

- Adjusting aerobic, anoxic and waste timers based on process parameters.
- Anoxic mix times were increased and monitoring of dissolved oxygen continued.
- Operations continued to make adjustments to timers based on quality of influent to minimize batch length to assist with DO transfer.
- June 12, 2025 – Take down and clean out of sand filter. Washers were removed, cleaned, and repaired as necessary and re-centered.
- October 9, 2025 – The sand filter was run manually with 10 L of hypo to break up and clean sand.
- November 28, 2025 - Train two was disabled and two blowers were run on hand to break down residual ammonia.
- On December 3rd and 4th, the Train 1 DO probe was switched to time treatment, until it could be fixed to read correctly.

OCWA has implemented recommendations from Innovation, Process and Optimization Technical Services (IPOTS) to maximize the breakdown of ammonia and nitrification, in addition to added sampling and monitoring at the facility. Despite the operational challenges related to nitrification, the facility consistently met all CBOD₅ and Total Suspended Solids effluent limits throughout the reporting period. OCWA will continue to review and apply IPOTS recommendations as needed to support ongoing process optimization.

6. Repair and Maintenance Activities

ECA 3351-B24JY4, Section 11, Part 4. e. 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;”

6.1 Work Management System

A computerized Work Management System (WMS) is utilized to schedule and document maintenance activities. 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

Scheduled preventative maintenance work orders are automatically generated by the WMS and are assigned to the applicable Operations staff. The WMS also allows for the creation of real-time emergency and corrective work orders for any unscheduled maintenance that may occur.

6.2 Preventative Maintenance

Preventative maintenance carried out on major structures, equipment, apparatus or mechanisms in the system during the reporting period include:

- Backflow device inspection
- Monthly Tile Bed Inspections
- Electrical Maintenance
- EQ Tank Cleanouts/Inspection

6.3 Repairs & Improvements

There were a number of repairs and/or improvements made throughout the reporting year. They are as follows:

- Jet Motive pump 1 replacement
- Actuator communication board replacement
- Hot water tank replacement
- Cell booster upgrade
- DO Probe replacement

All critical treatment equipment remained operational throughout the reporting period, and no failures resulted in treatment disruption or effluent quality impacts.

7. Quality Assurance and Control Measures

ECA 3351-B24JY4, Section 11, Part 4. f. requires:

“A summary of any effluent quality assurance or control measures undertaken in the reporting period;”

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.

7.1 Adherence to Provincial Regulations

The Ontario Clean Water Agency operates the Snow Valley Highlands WWTP in accordance with provincial regulations and the Environmental Compliance Approval.

7.2 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. All samples submitted to the accredited laboratory were handled in accordance with standard chain-of-custody procedures to ensure sample integrity.

7.3 Operation by Licensed Operators

The Snow Valley Highlands 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.

7.4 Sampling and Analysis

The Ontario Clean Water Agency followed a sampling and analysis schedule that meets the requirements of the ECA.

7.5 In-house Analysis

In-house analysis were 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.

7.6 Calibrations

Third-party and in-house calibrations are completed on various equipment and monitoring and analysis items as required based on manufacturer's recommendations. See section 8 below for further details.

8. Calibration & Maintenance – Monitoring Equipment

ECA 3351-B24JY4, Section 11, Part 4. g. 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 raw water and effluent flow meters were successfully calibrated by FLOWMETRIX Technical Services on June 10, 2025. Calibration confirmed that the flow meters were operating within acceptable performance ranges. A portable Hach DR850 unit was calibrated by Indus Control on July 23, 2025.

Refer to **Appendix C** for a copy of the calibration reports.

9. Design Objective Requirements

ECA 3351-B24JY4, Section 11, Part 4. h. requires:

“A description 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 are not achieved more than 50% of the time in a year, or there is an increasing trend of deterioration of Final Effluent quality;*
- ii. When 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 towards the receiving subsurface disposal beds. Staff routinely monitored plant effluent quality and adjusted operations to optimize the treatment process to maximize treatment effectiveness and efficiency. In 2023, staff sought the expertise of OCWA’s POTs team to help troubleshoot process deficiencies.

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)

A review of multi-year effluent data did not indicate any increasing trend of deterioration in final effluent quality for CBOD₅ or Total Suspended Solids. The only parameter showing performance challenges was Total Ammonia Nitrogen plus Nitrate Nitrogen, which is discussed in Section 5.

The annual Total Ammonia Nitrogen (TAN) plus Nitrate (NO₃⁻) Effluent Objectives was not achieved more than 40% of the reporting period, with objective exceeded in five months of 2025. These objective exceedances were attributed to high TKN concentrations and equipment issues. OCWA has continued to implement POTs recommendations to troubleshoot other options to more proactively address Total Ammonia Nitrogen (TAN) plus Nitrate (NO₃⁻) challenges. *See section 5 for more details.*

There were six instances during the reporting period where the pH fell outside of the ECA objective of 6.5 to 8.5. *See section 3.2 for dates.* For the remainder of the reporting period and for more than 50% of the year, pH was maintained within the objective limits.

Because the Annual Average Daily Influent Flow remained below the 80% threshold identified in Condition 11(4)(h)(ii), no additional assessments or proactive actions were triggered under this requirement.

Lastly, for the reporting period, Snow Valley Highlands WWTP was able to maintain an Annual Average Daily Influent flow less than 80% of the ECA Rated Capacity. For 2025, the annual daily influent flow average was 132.58 m³/day, which is 50.99% of the Rated Capacity.

10. Sludge Production

ECA 3351-B24JY4 Section 10, Part 6. i. requires:

“A tabulation of the volume of sludge generated in the reporting period, 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;”

The table below shows a summary of sludge haulage for the reporting period:

Table 16: Snow Valley Highlands WWTP Sludge Haulage 2025

Date	Facility Transferred To	Hauler	Volume Hauled (m ³)
January 9, 2025	Elmvale WWTP Disposal	ROHES	72.8
February 6, 2025	Elmvale WWTP Disposal	ROHES	72.8
March 18, 2025	Elmvale WWTP Disposal	ROHES	36.5
April 25, 2025	Elmvale WWTP Disposal	ROHES	72.8
June 4, 2025	Elmvale WWTP Disposal	ROHES	36.4
June 24, 2025	Elmvale WWTP Disposal	ROHES	36.4

2024 Annual Performance Report

The Corporation of the Township of Springwater: Snow Valley Highlands Wastewater Treatment Plant

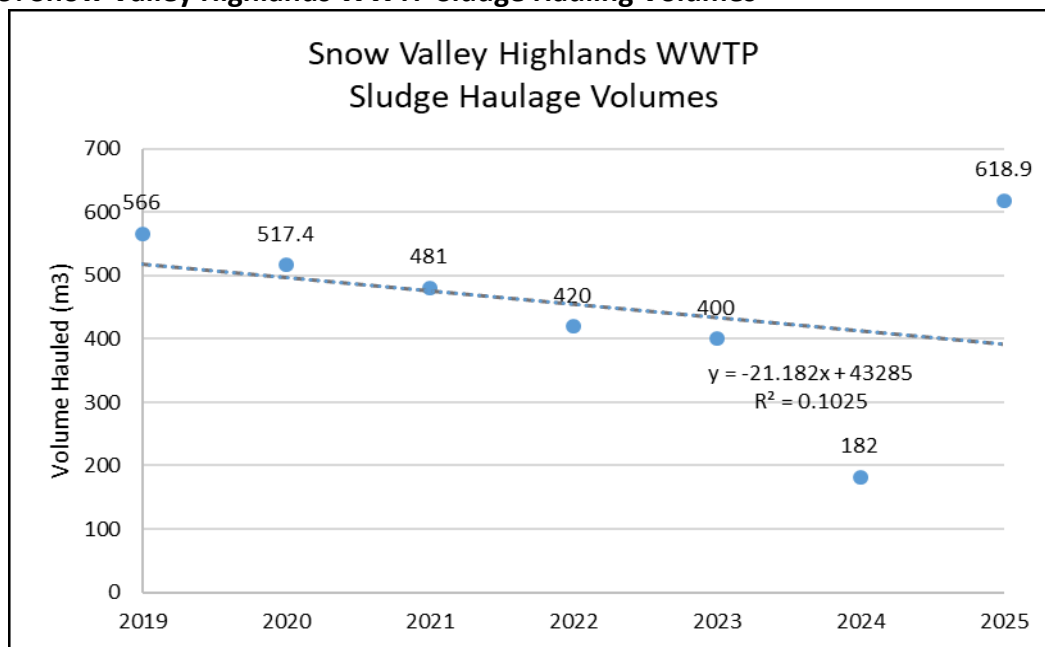
ECA No. 3351-B24JY4 (Issue Date: September 26, 2018)

Reporting Period: January 1, 2024 to December 31, 2024

July 11, 2025	Elmvale WWTP Disposal	ROHES	36.4
August 8, 2025	Elmvale WWTP Disposal	ROHES	36.4
September 9, 2025	Elmvale WWTP Disposal	ROHES	36.4
October 2, 2025	Elmvale WWTP Disposal	ROHES	72.8
October 28, 2025	Elmvale WWTP Disposal	ROHES	36.4
December 3, 2025	Elmvale WWTP Disposal	ROHES	72.8
2025 Total Volume Hauled			618.9

All sludge was transferred to the Elmvale WWTP by ROHES during the reporting year. Typically, to estimate the volume of sludge generated in the next reporting period, a linear regression using data from previous years is used. Given the low R^2 value (10%, see Graph 9) the regression won't be able to accurately estimate sludge volumes for 2026. Based on recent operational patterns, sludge production in 2026 is expected to remain generally consistent with 2025 volumes unless influent loading characteristics change significantly.

Graph 9: Snow Valley Highlands WWTP Sludge Hauling Volumes



11. Community Complaints

ECA 3351-B24JY4 Section 11, Part 4. j. requires:

"A summary of any complaints received during the reporting period and any steps taken to address the complaints;"

There were no community complaints during the reporting period.

12. By-pass, Spill or Abnormal Discharge Events Summary

ECA 3351-B24JY4, Section 11, Part 4. K. 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;”

12.1 By-pass events

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

12.2 Spills

There were no spill events during the reporting period.

12.3 Abnormal Discharge Events

There were no abnormal discharge events during the reporting period.

13. Notice of Modification to Sewage Works

ECA 3351-B24JY4, Section 11, Part 4. I. requires:

“A summary of all Notice of Modification to Sewage Works completed under Paragraph 1.d. of Condition 10, including a report on the status of the modification;”

There were no Notice of Modification to Sewage Works completed during the reporting period.

14. Conformance to Procedure F-5-1

ECA 3351-B24JY4, Section 11, Part 4. m. 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;”

The Snow Valley Highlands WWTP and collection system does not discharge final effluent to surface waters, and therefore, is not subject to conformance with Procedure F-5-1.

15. Construction and Commissioning Schedule Updates

ECA 3351-B24JY4, Section 11, Part 4. n.:

2024 Annual Performance Report

The Corporation of the Township of Springwater: Snow Valley Highlands Wastewater Treatment Plant

ECA No. 3351-B24JY4 (Issue Date: September 26, 2018)

Reporting Period: January 1, 2024 to December 31, 2024

“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.”

All proposed works in the current ECA have been previously completed and no changes occurred during the reporting period. No construction, upgrades, or modifications are planned for the 2026 reporting period.

2025 Performance Assessment Report

Appendix A

Annual Summary

8254 SNOW VALLEY HIGHLANDS WASTEWATER TREATMENT FACILIT 110003610																			
	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	4,076.20	4,258.30	3,909.00	3,915.60	3,949.00	3,846.40	4,411.40	4,070.50	3,728.00	3,882.90	3,936.90	4,408.90	48,393.10			0.00			
Raw Flow: Avg - Raw m³/d	131.49	152.08	126.10	130.52	127.39	128.21	142.30	131.31	124.27	125.25	131.23	142.22		132.58		180.00			
Raw Flow: Max - Raw m³/d	154.10	196.00	180.70	182.30	142.50	140.90	197.30	147.20	149.30	161.00	146.50	165.20			197.30	0.00			
Raw Flow: Count - Raw m³/d	31.00	28.00	31.00	30.00	31.00	30.00	31.00	31.00	30.00	31.00	30.00	31.00	365.00			0.00			
Eff. Flow: Total - Cameron Effluent m³/d	1,200.80	1,130.60	1,218.50	1,286.30	1,271.60	1,210.98	1,235.80	1,195.74	1,130.80	1,167.30	1,163.90	1,317.01	14,529.33			0.00			
Eff. Flow: Total - Effluent m³/d	3,899.30	3,508.00	3,980.40	3,923.60	4,146.00	3,810.28	4,014.80	3,822.90	3,709.20	3,606.20	3,743.90	4,215.80	46,380.38			0.00			
Eff. Flow: Avg - Cameron Effluent m³/d	38.74	40.38	39.31	42.88	41.02	40.37	39.86	38.57	37.69	37.65	38.80	42.48		0.00		0.00			
Eff. Flow: Avg - Effluent m³/d	125.78	125.29	128.40	130.79	133.74	127.01	129.51	123.32	123.64	116.33	124.80	135.99		127.42		0.00			
Eff. Flow: Max - Cameron Effluent m³/d	51.90	55.00	60.20	61.50	53.70	51.70	52.60	52.00	48.40	52.20	51.00	57.80			61.50	0.00			
Eff. Flow: Max - Effluent m³/d	163.70	169.60	169.00	184.70	198.40	165.50	170.40	149.40	160.70	163.00	160.50	178.20			198.40	0.00			
Eff Flow: Count - Cameron Effluent m³/d	31.00	28.00	31.00	30.00	31.00	30.00	31.00	31.00	30.00	31.00	30.00	31.00	365.00			0.00			
Eff Flow: Count - Effluent m³/d	31.00	28.00	31.00	30.00	31.00	29.00	31.00	31.00	30.00	31.00	30.00	31.00	364.00			0.00			
Carbonaceous Biochemical Oxygen Demand: CBOD																			
Eff: Avg cBOD5 - Effluent mg/L	< 4.50	< 5.25	< 4.00	< 4.60	9.25	20.25	< 4.40	< 4.00	< 4.00	< 4.40	< 5.00	< 5.20		< 6.12	< 20.25	15.00			
Loading: cBOD5 - Effluent kg/d	< 0.566	< 0.658	< 0.514	< 0.602	1.237	2.558	< 0.570	< 0.493	< 0.495	< 0.512	< 0.624	< 0.707		< 0.78	< 2.56				
Biochemical Oxygen Demand: BOD5																			
Raw: Avg BOD5 - Raw mg/L	367.00	296.00	184.00	611.00	> 417.00	214.00	319.00	211.00	301.00	220.00	210.00	259.00		300.75	611.00	0.00			
Raw: # of samples of BOD5 - Raw	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			0.00			
Total Suspended Solids: TSS																			
Raw: Avg TSS - Raw mg/L	241.00	162.00	208.00	228.00	188.00	176.00	130.00	130.00	148.00	145.00	210.00	163.00		177.42	241.00	0.00			
Raw: # of samples of TSS - Raw	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			0.00			
Eff: Avg TSS - Effluent mg/L	7.50	< 4.75	< 3.25	2.40	40.75	13.50	21.00	27.00	14.25	11.00	8.25	13.40		13.77	40.75	15.00			
Eff: # of samples of TSS - Effluent	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 - Effluent kg/d	0.943	< 0.595	< 0.417	0.314	5.450	1.705	2.720	3.330	1.762	1.280	1.030	1.622		1.75	5.45				
Percent Removal: TSS - Raw %	96.89	97.07	98.44	98.95	78.32	92.33	83.85	79.23	90.37	92.41	96.07	91.78		91.31	98.95	0.00			
Total Phosphorus: TP																			
Raw: Avg TP - Raw mg/L	8.58	8.25	5.62	13.20	10.20	5.98	6.37	5.03	5.61	4.80	5.70	6.66		7.17	13.20	0.00			
Raw: # of samples of TP - Raw	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			0.00			
Eff: Avg TP - Effluent mg/L	0.46	0.77	0.41	0.78	0.95	0.32	0.40	0.47	0.35	0.30	0.31	0.36		0.49	0.95				
Eff: # of samples of TP - Effluent	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 - Effluent kg/d	0.058	0.097	0.052	0.102	0.127	0.040	0.052	0.057	0.043	0.035	0.038	0.049		0.06	0.13				
Percent Removal: TP - Raw %	94.67	90.64	92.79	94.08	90.66	94.65	93.66	90.76	93.81	93.71	94.65	94.56		93.22	94.67	0.00			
Nitrogen Series																			
Raw: Avg TKN - Raw mg/L	82.50	82.00	49.20	82.30	58.50	51.90	56.90	58.50	54.70	54.70	48.80	56.10		61.34	82.50	0.00			
Raw: # of samples of TKN - Raw	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			0.00			
Eff: Avg TAN - Effluent mg/L	< 2.48	14.08	6.13	12.66	1.73	< 0.78	2.02	1.33	1.38	9.92	9.90	7.86		< 6.03	< 14.08				
Eff: # of samples of TAN - Effluent	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 - Effluent kg/d	< 0.311	1.763	0.786	1.656	0.231	< 0.098	0.262	0.163	0.170	1.154	1.235	1.069		< 0.77	< 1.76				
Eff: Avg NO3-N - Effluent mg/L	0.45	1.14	0.75	3.67	2.62	< 0.64	1.23	1.77	3.88	5.83	8.94	7.50		3.20	8.94	0.00			
Eff: # of samples of NO3-N - Effluent	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 - Effluent mg/L	< 0.07	< 0.11	0.10	< 0.18	0.64	< 0.41	0.33	< 0.10	0.14	0.26	0.64	< 0.45		< 0.28	< 0.64	0.00			
Eff: # of samples of NO2-N - Effluent	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			

2025 Annual Performance Report

Appendix B

Sampling Calendars

2025 Sampling Calendar

SNOW VALLEY HIGHLANDS WASTEWATER TREATMENT PLANT

Class II WWTP, ECA #3351-B24JY4 Issue Date: September 26, 2018

Org #8254, Works #110003610

Rev. 4 - 2024.11.29

JANUARY						
M	T	W	TH	F	St	Su
30-W	31	1	2	3	4	5
6	7	8-W;M;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;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		

MARCH						
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						

APRIL						
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				

MAY						
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	

JUNE						
M	T	W	TH	F	St	Su
						1
2	3	4-W;M;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 3351-B24JY4 , Section 9(d) i. Weekly mean once every week; ii. Monthly means once every month

Stat Holiday/Weekend

W=Weekly; M=Monthly; SL=Sludge

Sample Day

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

2025 Sampling Calendar

SNOW VALLEY HIGHLANDS WASTEWATER TREATMENT PLANT

Class II WWTP, ECA #3351-B24JY4 Issue Date: September 26, 2018

Org #8254, Works #110003610

Rev. 4 - 2024.11.29

JULY						
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	31			

AUGUST						
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

SEPTEMBER						
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					

OCTOBER						
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		

NOVEMBER						
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

DECEMBER						
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-W	24	25	26	27	28
29	30-W	31				

As per ECA 3351-B24JY4 , Section 9(d) i. Weekly mean once every week; ii. Monthly means once every month

Stat Holiday/Weekend

W=Weekly; M=Monthly; SL=Sludge

Sample Day

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

2026 Sampling Calendar

SNOW VALLEY HIGHLANDS WASTEWATER TREATMENT PLANT

Class II WWTP, ECA #3351-B24JY4 Issue Date: September 26, 2018

Org #8254, Works #110003610

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	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 3351-B24JY4 , Section 9(d) i. Weekly mean once every week; ii. Monthly means once every month

Stat Holiday/Weekend

W=Weekly; M=Monthly; SL=Sludge

Sample Day

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

2026 Sampling Calendar

SNOW VALLEY HIGHLANDS WASTEWATER TREATMENT PLANT

Class II WWTP, ECA #3351-B24JY4 Issue Date: September 26, 2018

Org #8254, Works #110003610

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	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 3351-B24JY4 , Section 9(d) i. Weekly mean once every week; ii. Monthly means once every month

Stat Holiday/Weekend

W=Weekly; M=Monthly; SL=Sludge

Sample Day

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

2025 Annual Performance Report

Appendix C

Calibration Reports

Verification report flowmeter



Plant operator	Flowmetrix
Device information	
Location Snow Valley Highlands WWTP Influent	Device tag Promag
Module name Promag L	Nominal diameter DN80 / 3"
Device name Promag 400	Order code 5L4C80-3WC6/101
Serial number L6004916000	Firmware version 01.05.05
Calibration	
Calibration factor 0.9901	Zero point 2

Verification information	
Operating time 3157d20h04m11s	Date/time 04.06.25 15:14
Verification ID 10	
Verification results	
Overall result	 Passed
Detailed results	See next page

Overall result: Result of the complete device functionality test via Heartbeat Technology

Notes

Validity of the verification report is only given:

For devices with the Heartbeat Verification enabled software option

For verifications, carried out by the Endress+Hauser Service, or an authorized Endress+Hauser service provider

Date

Inspectors signature

Operator's signature

Verification report flowmeter

Serial number: L6004916000
Verification detailed results Verification ID 10

Sensor		Passed
Coil current shot time		Passed
Coil hold voltage		Passed
Coil current		Passed
Sensor electronic module		Passed
Reference voltage		Passed
Linearity of electrode measuring circuit		Passed
Offset of electrode measuring circuit		Passed
I/O module		Passed

AS FOUND CERTIFICATION
PASS
CLIENT DETAIL

CUSTOMER OCWA-North Simcoe
 CONTACT Michelle Neal
 Senior Operations Manager
 1128 Flos Rd 10 E
 Elmvale ON L0L 1P0
 T: 705 715 1411
 E:mneal@ocwa.com

MODEL ProcessMaster 630series
 SENSOR S/N: 3K6200001318680PE44_6
 CONVERTER S/N: 3K620000318679
 SENSOR SIZE (DN) 150

PLANT ID Snow Valley WWTP
 METER ID Secondary Effluent
 FIT ID N/A
 OCWA TAG N/A
 OTHER OCWA: 310060
 GPS COORDINATES N/A

VER. BY - FM Charles Francisco

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

VERIFICATION DATE June 10, 2025
 CAL. FREQUENCY Annual
 CAL. DUE DATE June 2026

SENSOR INFORMATION

Q3 lb/min 6613.868
 CALIBRATION ACCURACY Standards
 SENSOR CAL. ACCURACY % 171.79
 mm/sec -17.656
 ~ 0
 DATE OF MANUFACTURE August 01, 2019
 RUN HOURS hrs 25683

TRANSMITTER INFORMATION

FIRMWARE VERSION N/A
 MSP VERSION N/A
 DATE OF MANUFACTURE March 22, 2019
 RUN HOURS hrs 25683

ALLOWABLE TOLERANCE % 15.0

CURRENT OUTPUT

OUTPUT TEST	4.00	READING	ERROR	PASS
	20.00	mA	%	FAIL
4.0 mA	4.00	4	0.00	PASS
12.0 mA	12.00	12.002	0.02	PASS
20.0 mA	20.00	20.003	0.02	PASS

PULSE OUTPUT

OUTPUT TEST	READING	ERROR	PASS
	mA	%	FAIL
OUTPUT 1, Hz 100	N/A	N/A	N/A
OUTPUT 1, Hz 50	N/A	N/A	N/A
OUTPUT 2, Hz 100	N/A	N/A	N/A
OUTPUT 2, Hz 50	N/A	N/A	N/A

SRV500 INFORMATION

VERSION 04.00.00.7

TOTALIZER INFORMATION

FORWARD 582939400.000 lb
 REVERSE -1052.083 lb
 NET 582940452.1 lb

COIL DATA

COIL RESISTANCE 14.580 Ohms
 COIL INDUCTANCE 79.073 mH
 COIL CURRENT 200.026 mA
 COIL DIAGNOSTICS No Alarms info

TRANSMITTER CALIBRATION VERIFICATION

VELOCITY	FINGERPRINT	MEASURED	RESULT
10 m/s	10.42086	10.419830	PASS
5 m/s	1.040988	1.041061	PASS
Common Mode	-0.006588	-0.006847	PASS

SETTINGS / INFORMATION

MAINS/FREQUENCY 60 Hz
 QMAX 6613.87 lb/min
 ELECTROD IMPEDANCE E1-GND 360.727 Ohm
 ELECTROD IMPEDANCE E2-GND 357.9 Ohm
 SENSOR USER SPAN 100 %
 SENSOR SPAN Ss 171.791 %
 SENSOR ZERO Sz -17.656 mm/s
 EMPTY PIPE ON info
 DETECTOR EP VALUE Hz 1050 info
 EP THRESHOLD Hz 2500 info

COMMENTS

Note: Sensor and transmitter wirings were checked. OK.

Unable to change alarm limits on unit.

QUALITY MANAGEMENT STANDARDS INFO.

[QMS] INFORMATION	IDENT.	ID #
[REFERENCE] FTS	ABB ABILITY	1
PROCESS METER	PM	0

The information contained within this report was produced by "VeriMASTER - Flow Meter Verification Report". The AS LEFT information is the same as the AS FOUND information within this report. If changes have been made relative to the accuracy of the calibration, an AS LEFT certificate will be issued.



Plant operator: Flowmetrix

Device information

Location	Snow Valley Highlands WWTP
Device tag	Promag
Module name	C300-01
Nominal diameter	DN80 / 3"
Device name	Promag 500
Order code	5W5B80-24C8/0
Serial number	P81A8519000
Firmware version	01.01.04

**Calibration**

Calibration factor	0.9013
Zero point	6

Verification information

Operating time (counter)	2079d01h15m57s
Date/time (manually recorded)	04.06.25 15:19
Verification ID	6
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

Plant operator: Flowmetrix

Device identification and verification identification

Serial number	P81A8519000
Device tag	Promag
Verification ID	6



Sensor		✓ Passed
Shot time symmetry		✓ Passed
Hold voltage symmetry		✓ Passed
Coil current loss		✓ Passed
Coil current stability		✓ Passed
Coil resistance		✓ Passed
Electrode circuit 1		✓ Passed
Electrode circuit 2		✓ Passed
Electrode circuit EPD		✓ Passed
Sensor electronic module (ISEM)		✓ Passed
Supply voltage		✓ Passed
External reference voltage		✓ 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)	☐ Not plugged
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	P81A8519000
Device tag	Promag
Verification ID	6



Test item with value	Unit	Actual	Min.	Max.	Visualization
Sensor					
Shot time symmetry deviation		1.0024	0.9000	1.1000	□□□□■□□□□□
Hold voltage symmetry deviation		1.0000	0.9000	1.1000	□□□□■□□□□□
Coil current loss deviation	%	0.2101	-10.0000	10.0000	□□□□■□□□□□
Coil current offset	%	8.12e-03	-0.1	0.1	□□□□■□□□□□
Coil current deviation	%	0.00	-0.1	0.1	□□□□■□□□□□
Coil resistance value	Ohm	108.7	50.0	240.0	□□■□□□□□□□
Electrode impedance 1	Ohm	371.24			
Electrode impedance 2	Ohm	368.93			
Electrode EPD impedance	Ohm	401.67			
Electrode impedance E1/E2 on E1	Ohm	405.71			
Electrode impedance E1/E2 on E2	Ohm	403.97			
Sensor electronic module (ISEM)					
External reference voltage 1	V	-nan			
Linearity and reference voltage 1		0.9998			
Linearity and reference voltage 2		0.9998			
Measuring point offset		2.0644	-100.0000	100.0000	□□□□■□□□□□
Hold voltage feedback value	%	1.28	-10.0	10.0	□□□□□■□□□□
Shot voltage feedback value	%	-0.47	-20.0	20.0	□□□□■□□□□□
Electronic current loss deviation	%	0.38	-10.0000	10.0000	□□□□■□□□□□
Coil circuit value	%	0.00	-1.0	1.0	□□□□■□□□□□
Shot control circuit value	%	-0.14	-10.0	10.0	□□□□■□□□□□
Electrode signal integrity deviation	%	-0.02	-40.0	40.0	□□□□■□□□□□

System status

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	0.0008	-0.1400	0.1400	□□□□■□□□□□
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		0.0000	0.0000	0.0000	□□□□□□□□□□
Output 2 value 2		0.0000	0.0000	0.0000	□□□□□□□□□□
I/O module 3 terminal numbers	22-23 (I/O 3)				
Output 3 value 1		0.0000	0.0000	0.0000	□□□□□□□□□□
Output 3 value 2		0.0000	0.0000	0.0000	□□□□□□□□□□
I/O module 4 terminal numbers	20-21 (I/O 4)				
Output 4 value 1		0.0000	0.0000	0.0000	□□□□□□□□□□
Output 4 value 2		0.0000	0.0000	0.0000	□□□□□□□□□□

Plant operator: Flowmetrix

Device identification and verification identification

Serial number	P81A8519000
Device tag	Promag
Verification ID	6



Test item with value	Unit	Actual
Process conditions		
Volume flow value verification	l/s	0.0000
Conductivity value verification	µS/cm	-nan
Process temperature value verification	°F	-nan
Electronic temperature	°F	90.0486



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	Snow Valley Highlands WWTP		
Location	Snow Valley Highlands WWTP	Date	July 23, 2025
OCWA ID	92574	Report No	CO1643-2507-05
Device Discription	Pocket Colorimeter	Job No	CO1643-2507

Device Information

Instrument Make:	Hach
Model/Part No:	DR850
Serial No:	21250023380

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	0.21	-0.02
STD 2(0.92±0.10)	0.92	0.89	-0.03
STD 3(1.60±0.14)	1.60	1.55	-0.05

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:	110003610	Receiver:
Facility Owner:	Municipality: Springwater	Service Population:
Facility Classification:	N/A	Total Design Capacity: 260 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	72.80	12,000.00	419.00	48.60	3.00	3.00	694.00	25.80	50.00
Feb	72.80	16,900.00	545.00	67.40	3.00	3.00	1,020.00	35.20	47.70
Mar	36.50	36,200.00	1,040.00	97.40	3.00	3.00	2,290.00	50.20	64.00
Apr	72.80	37,800.00	2,100.00	94.20	3.00	3.00	1,960.00	48.60	133.00
May		14,600.00	367.00	77.70	3.00	3.00	871.00	40.35	51.00
Jun	72.80	21,400.00	649.00	39.30	3.00	3.00	1,300.00	21.15	88.00
Jul	36.40	13,900.00	354.00	56.10	3.00	3.00	869.50	29.55	46.50
Aug	36.40	11,000.00	376.00	50.70	3.00	3.00	863.00	26.85	46.00
Sep	36.40	13,900.00	408.00	43.20	3.00	3.00	790.00	23.10	48.00
Oct	109.20	16,500.00	441.00	55.80	3.00	3.00	878.00	29.40	51.00
Nov		11,700.00	408.00	62.40	3.00	3.00	726.00	32.70	40.00
Dec	72.80	13,900.00	569.00	53.00	3.00	3.00	714.00	28.00	60.00
Average	61.89	18,316.67	639.67	62.15	3.00	3.00	1,081.29	32.58	60.43
Total	618.90	219,800.00	7,676.00	745.80	36.00	36.00	12,975.50	390.90	725.20

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	0.01	0.21	2.90	0.00	0.09	0.14	0.10	0.10	9.00
Feb	0.10	0.01	0.02	0.32	3.97	0.00	0.12	0.19	0.10	0.10	12.20
Mar	0.10	0.02	0.04	0.47	7.00	0.00	0.19	0.30	0.10	0.10	21.00
Apr	0.10	0.04	0.08	0.97	15.00	0.01	0.45	0.66	0.30	0.20	48.00
May	0.10	0.01	0.02	0.16	2.40	0.00	0.08	0.11	0.10	0.10	8.00
Jun	0.10	0.01	0.03	0.51	4.20	0.00	0.13	0.28	0.10	0.10	14.00
Jul	0.10	0.01	0.02	0.28	2.15	0.00	0.07	0.16	0.10	0.10	6.50
Aug	0.10	0.01	0.02	0.23	2.50	0.00	0.08	0.13	0.10	0.10	7.00
Sep	0.10	0.01	0.01	0.22	2.30	0.00	0.07	0.12	0.10	0.10	7.00
Oct	0.10	0.01	0.02	0.19	3.00	0.00	0.07	0.13	0.10	0.10	9.00
Nov	0.10	0.01	0.02	0.25	2.70	0.00	0.07	0.15	0.10	0.10	8.00
Dec	0.10	0.01	0.02	0.20	3.30	0.00	0.08	0.15	0.10	0.10	10.00
Average	0.10	0.01	0.03	0.33	4.29	0.00	0.13	0.21	0.12	0.11	13.31
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)	5.46	0.62	1.39	18.20	233.94	0.12	6.83	11.46	6.37	5.91	726.57

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

Parameter Short Name	Time Series	09/03/2025	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	0.10	7.14	170
Cd (mg/L)	Lab Published	0.01	0.01	0.01	0.01	0.01	0.55	34
Co (mg/L)	Lab Published	0.01	0.02	0.02	0.02	0.02	1.25	340
Cr (mg/L)	Lab Published	0.22	0.19	0.25	0.20	0.22	15.36	2800
Cu (mg/L)	Lab Published	2.30	3.00	2.70	3.30	2.83	201.79	1700
Hg (mg/L)	Lab Published	0.00	0.00	0.00	0.00	0.00	0.09	11
Mo (mg/L)	Lab Published	0.07	0.07	0.07	0.08	0.07	5.18	94
Ni (mg/L)	Lab Published	0.12	0.13	0.15	0.15	0.14	9.82	420
Pb (mg/L)	Lab Published	0.10	0.10	0.10	0.10	0.10	7.14	1100
Se (mg/L)	Lab Published	0.10	0.10	0.10	0.10	0.10	7.14	34
Zn (mg/L)	Lab Published	7.00	9.00	8.00	10.00	8.50	607.14	4200
E. Coli Dry wt (cfu/g)	Lab Published						E. Coli average is the GMD	
TS (mg/L)	Lab Published	13,900.00	16,500.00	11,700.00	13,900.00	14,000.00		
VS (mg/L)	Lab Published							
TP (mg/L)	Lab Published	408.00	441.00	408.00	569.00	456.50		
NO2-N (mg/L)	Lab Published	3.00	3.00	3.00	3.00	3.00		
TKN (mg/L)	Lab Published	790.00	878.00	726.00	714.00	777.00		
K (mg/L)	Lab Published	48.00	51.00	40.00	60.00	49.75		
NH3p-NH4p-N (mg/L)	Lab Published	43.20	55.80	62.40	53.00	53.60		
NO3-N (mg/L)	Lab Published	3.00	3.00	3.00	3.00	3.00		